

National Report As of 31 December 2021 (for RSTC5)

PART 1: Status and Progress of Project Implementation As of 31 December 2021

Indicators	Name/Location/Province	Target Species	Status (adopted/In process)		Estimated Refugia Size (Hectares)	Marine Habitat linkage		Refugia boundary Area
			Adopted	Ongoing (expected date)		Type	Size (ha)	
<i>Fisheries Refugia Adoption</i>	Site 1: Marine Fisheries Management Area including Fisheries Refugia at Koh Po, Kep province	Blue Swimming Crab (<i>Portunus pelagicus</i>)	12 April 2018		417 ha	- Coral reef, - Sea grass - Mangrove	Coral reef = 52ha Sea grass= 2790ha Mangrove= 1005ha	See Annex 1
	Site 2: Fisheries Refugia at Peam Krosob, Koh Kong province	Short Mackerel (<i>Rastrelliger brachysoma</i>)	16 Sept. 2019		1283 ha	- Coral reef, - Sea grass - Mangrove	Coral reef = 602ha Sea grass= 3993ha Mangrove= 62000ha	See Annex 2
	Site 3: Marine Fisheries Management Area including Fisheries Refugia at Trapaing Ropaov, Kampot province	Grouper (<i>Epinephelus coioides</i>)	Not Yet	Processing	Not yet	- Coral reef, - Sea grass - Mangrove	Coral reef = 953ha Seagrass= 25000ha Mangrove= 1900ha	See Annex 3
<p><i>If not yet achievement, give a reason and strategic workplan including expected date for completion:</i></p> <p>Due to COVID 19 Pandemic outbreak, and changing a new provincial governor of Kampot, Marine Fisheries Management Area including Grouper Refugia in Kampot province will be expected to adopt in quarter 2 of 2022</p> <p><i>Willingness of fisheries and environment sectors to agree on Establishment of Fisheries Refugia:</i></p>								

	<p>Both sectors feel satisfied and happy in the establishment of fisheries refugia in following purposes:</p> <ul style="list-style-type: none"> – To manage sustainable marine fisheries resources, biodiversity, and ecosystem, – To ensure sustainable fish stock, – To ensure sustainable fishing in order to enhance community livelihood depending on the natural resources, and – To strengthen the adaptation of climate change.
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<i>Indicators</i>	<i>Site</i>	<i>List of the key community/stakeholder</i>	<i>Issues/problems</i>	<i>Agreed Management Measures</i>
		<i>(Describe if different from 2020 report)</i>		

Indicators	Site	List of the key community/stakeholder	Issues/problems	Agreed Management Measures
<i>community / stakeholder engagement in establishing of Fisheries Refugia and implementation of agreed management measures</i>		<p style="text-align: center;"><i>(Describe if different from 2020 report)</i></p> <ul style="list-style-type: none"> • Governor of Kep Province • Deputy Governor of Kep Province • Fisheries Administration • Provincial Department of Agriculture, Forestry, and Fisheries • Provincial Police • Provincial Military Police • Maritime Police No.430 • Provincial Department of Economy and Finance • Provincial Department of Planning • Provincial Department of Environment • Provincial Department of Tourism • Provincial Department of Public Works and Transports • Department of Land and Construction • Governor of Kep district • Governor of Damnak Chornng Ore district • Kep Fisheries Administration Cantonment/DoA • Kep Provincial Administration • Private Sector • IUCN • MCC (local NGO based in Koh Arch Ses in Kep province) • Local Authorities (Head of 5 Commune Council) 	<ul style="list-style-type: none"> - Hard to set times for meeting at provincial level, especially meetings with provincial administration leader were proposed for many times - Changing Deputy Governor of Kep province responsible in the preparation of establishment of marine fisheries management area including blue swimming crab refugia. - Thus, establishment process of marine fisheries management area including blue swimming crab was delayed for long time 	<ul style="list-style-type: none"> – Stakeholder consultation meeting at local level, conducted to identify sites, prepare map and boundary, size, and set certain way points. Participants are from FiA, provincial department of agriculture, forestry, and fisheries, fisheries administration cantonment, local authorities, community fisheries, fishermen, private sector, and NGO involved, – Provincial stakeholder consultation meeting with provincial administration (chair person of meeting by provincial deputy governor), FiA, relevant provincial departments, provincial police, provincial military police, district authorities, local authorities, private sector, and NGOs involved to check, verify, finalize the map, boundary, size, and way points, – Stakeholder consultation meeting at nation level with FiA’s Law team to check the format of proclamation preparation on the establishment of marine fisheries management area including fisheries refugia sites, – Stakeholder consultation meeting at nation level with MAFF’s law team, FiA, provincial administration, provincial department of agriculture, forestry, and fisheries, and fisheries administration cantonment to check and finalize the format of proclamation on the establishment of marine fisheries – management area including fisheries refugia sites, and – Signed and stamped on the proclamation by Minister of Agriculture, Forestry, and Fisheries.

Indicators	Site	List of the key community/stakeholder	Issues/problems	Agreed Management Measures
		<i>(Describe if different from 2020 report)</i>		
		Forestry, and Fisheries <ul style="list-style-type: none"> • Provincial Police • Provincial Military Police • Maritime Police No.241 • Provincial Department of Environment • Provincial Department of Tourism • Provincial Department of land and construction • Tek Chhou district authority • Kep Fisheries Administration Cantonment/DoA • Kep Provincial Administration • Private Sector • WEA • Prek Thnaot Commune • Tro Paing Ropaov Community Fisheries • Prek Thnaot Community Fisheries • Chhorn Horn Community Fisheries 	including fisheries refugia overlapped with Development Company, so the new boundary of marine fisheries management area including grouper refugia sites has been revised and sent to kampot provincial administration for further action. <ul style="list-style-type: none"> – COVID 19 outbreak in the province 	grouper refugia site and development company <ul style="list-style-type: none"> – Stakeholder consultation meeting at provincial level to finalize new boundary and development company – Stakeholder consultation meeting at nation level with MAFF’s law team, provincial administration, provincial department of agriculture, forestry, and fisheries, and fisheries administration cantonment to check and finalize the proclamation on the establishment of marine fisheries management area including fisheries refugia sites, and – Signed and stamped on the proclamation by Minister of Agriculture, Forestry, and Fisheries.

Indicators	Progress and status including list of national policy and legal/regulatory frameworks	Remarks
<i>Reform of national policy, legal and regulatory frameworks governing the management of fisheries refugia</i>	<ul style="list-style-type: none"> – The concept of fisheries <i>refugia</i> has been integrated into national fisheries policy and legal basic, including the Law of Fisheries, National Plan for Action, Plan on Combating IUU Fishing, 10 year strategy plan for fisheries conservation, and 5 year management plan for fisheries conservation, to ensure fisheries refugia management effectively. – Marine Fisheries Management Area including Blue swimming crab Fisheries Refugia at Koh Po and Koh Tonsay Archipelago, Kep province is officially promulgated by the Minister of MAFF on 12 April 2018, which covers the total area of 11307 including 417ha for blue swimming crab refugia site. At that time, two committees have been formulated, Provincial Management Committee is chaired by Kep Governor and Technical Working Group for the Management of Marine Fisheries Management Area is chaired by Deputy Governor of Kep province. – Mackerel Fisheries Refugia at Peam Krasob, Koh Kong province is officially promulgated by the Minister of MAFF on 16 September 2019, which covers the total area of 1283ha. At that time, 	Amendment of fisheries law in Cambodia has not been adopted yet

	<p>Technical Working Group for Marine Fisheries Management has been established in February 2020 and Deputy Governor of Koh Kong province is the Chairperson of the TWG.</p> <ul style="list-style-type: none"> – Marine fisheries management area including grouper Fisheries Refugia at Prek Thnaot , Kampot province has not been adopted officially yet due to overlapping some parts of the fisheries refugia sites with economic development projects. New boundary of marine fisheries management area including grouper refugia site has been revised and sent to Kampot Administration to take further action. 	<p>Marine fisheries management area including grouper refugia site will be adopted in quarter 2 of 2022</p>
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Indicators	Sharing country experience on changing of fisherfolk attitude	Remarks
<p><i>Status of enabling environment reform including extent of behavioural change among small-scale fisherfolk at refugia sites</i></p>	<p>After the Royal Government of Cambodia making the policy reform of decentralization, Ministry of Agriculture, Forestry, and Fisheries made decentralization to sub-national to manage natural resources by themselves at the end of 2017. Coincidentally two proclamations on the establishment of marine fisheries management area including fisheries refugia in Kep and Koh Kong provinces are issued by Minister of Agriculture, Forestry, and Fisheries in 2018 and 2019.</p> <p>In this connection, small scale fisherfolk at fisheries refugia sites, especially community fisheries has been observed that they have changed their behaviors in term of participation in management of marine fisheries resource in order to ensure fish stock and sustainable fisheries resource utility.</p> <p>In particular, community fisheries took part in disseminating closed fishing during spawning season (i.e. mackerel and blue swimming crab), enforcing law of fisheries and regulation, and patrolling to monitor illegal fishing action happening at refugia sites.</p>	

Indicators	Sharing country experience on Gender Mainstreaming	Remarks
<p><i>Gender mainstreaming</i></p>	<p>(Describe progress, challenges and outcomes related to the gender-responsive measures)</p> <p>Royal Government of Cambodia pays attention for gender issue and also mainstream gender into national and sub-national structures in order to promote right women to empower decision making at leadership, management, and technical level. In addition, Fisheries Administration integrated gender into strategic plan framework for fisheries from 2015 to 2024 and endorsed an Action Plan for Gender Equality Promotion and Child Labour</p>	

	<p>Elimination in Fisheries Sector from 2016-2020.</p> <p>In this connection, it is observed that some NGOs have been trying to empower women by promoting agriculture activities, capacity building, saving money, agriculture cooperative, handicraft and other income generations. Women living along coastal area are observed that they are responsible for fishing activities such as processing, trading, maintaining fishing gears. In particular, women are actively involved in marine fisheries value chain, which account for more than 50% of fish trader and collector, over 90% of fish retailers, over 74% of fish processors, and 3% of fishing vessel workers (ADB concept paper, 2021).</p> <p>However, according to ADB concept paper 2021, key gender issues in the marine fisheries sector in Cambodia are facing such as: 1) poor and dangerous condition for women and children working in the marine fisheries value chains; 2) lack of women in leadership and decision making roles in fisheries management; 3) limited access to credit, technology, extension, services and information by women and women-owned MSME (Micro Small Medium Enterprise) in the fisheries sector.</p>	
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Indicators	Sharing country experience and proactive on Envi and social safeguards management	Remarks			
<p><i>Environmental and social safeguards management</i></p>	<p>(Describe progress, challenges and outcomes related to the environmental and social safeguard-responsive measures to ensure that no adverse environmental impacts are anticipated, and any possible social safeguard benefits during and after the establishment of fisheries refugia):</p> <p>Environment and Social Screening</p> <p>The following screening of potential environmental and social impacts of national level activities of fisheries refugia project was undertaken during and after the establishment of fisheries refugia in Kep, Koh Kong, and Kampot provinces of Cambodia. Specific elements of the project implementation assessed included proposed location of activities, possible environmental impacts, and social consideration. No adverse impacts as a result of executed national level activities were identified as follow:</p> <p>1. Location</p> <table border="1"> <tr> <td>During and after the establishment of fisheries</td> <td>Yes/No</td> <td>Comments/Explanation</td> </tr> </table>	During and after the establishment of fisheries	Yes/No	Comments/Explanation	
During and after the establishment of fisheries	Yes/No	Comments/Explanation			

	refugia in Kep, Koh Kong, and Kampot provinces		
	Is the project are in or close to -		
	- densely population area	No	No project activities are proposed closed to densely population area
	- culture heritage site	No	No project activities are proposed closed to cultural heritage site
	- protected area	Yes	Mackerel refugia site is closed to Peam Krasob Wildlife Sanctuary in Koh Kong province, but this site does not provide any additional impact to the project
	- wetland	Yes	fisheries information and data are dependent on wetland area, but the wetland area does not provide any additional impact to the project
	- Mangrove	Yes	fisheries information and data are dependent on mangrove area, but the mangrove area does not provide any additional impact to the project
	- estuarine	No	No project activities are proposed closed to estuarine area
	- Buffer zone of protected area	No	No project activities are proposed closed to Buffer zone of protected area
	- Special area for protection of biodiversity	No	No project activities are proposed closed to Special area for protection of biodiversity
	- Will project require temporary or permanent support facilities	No	No temporary or permanent support facilities are required
	2. Environmental Impacts		
	During and after the establishment of fisheries refugia in Kep, Koh Kong, and Kampot provinces	Yes/No	Comments/Explanation
Are ecosystem related to project fragile or degraded?	Yes	These sites contain fragile and degraded coastal habitats project activities aim to reverse degradation of these habitats and contribute to their longer term sustainable use.	

	Will project cause any loss of previous ecology, ecological, and economic function due to construction of infrastructure?	No	These sites do not cause an adverse impact to the project	
	Will project cause impairment of ecological opportunities?	No	The project promotes to restore an ecological system and habitats	
	3. Social Impacts			
	During and after the establishment of fisheries refugia in Kep, Koh Kong, and Kampot provinces	Yes/No	Comments/Explanation	
	Does project respect internationally proclaimed human rights including dignity, cultural, property and uniqueness and rights of indigenous people?	Yes	The project has considered human right, including dignity, culture, traditional, and which invited them to join the stakeholder meeting to discuss about the establishment of fisheries refugia	
	Are property rights on resources such as land tenure recognized by the existing laws in affected countries?	Yes	The project does not cause any adverse impact to the land tenure of people. In the case, there are some problem happening, the project always consult with them affecting	
	Will project cause social problems and conflicts related to land tenure and access to resources?	No	The project does not cause any adverse impact to access to resources	
	Does the project incorporate measures to allow affected stakeholders' information and consultation?	Yes	The project always call a consultation meeting with involved stakeholders to address problems happening	
	Will project affect the state of the targeted country's (-ies) institution context?	No	The project supports increasing capacity building to the country of project implantation	
	Will the project cause technology or land use	Yes	The project does not cause any negative impact to socio economic activities	

	modification that may change present social and economic activities?		
	Will the project cause increased local or regional unemployment?	No	The project provides job opportunities to community fisheries
	Does the project include measures to avoid forced or child labour?	Yes	The project try to reduce using child labour in term of fishing activities
	Does the project include measures to ensure a safe and healthy working environment for workers employed as part of the project?	Yes	This project considers healthy and clean environment for working places
	Will the project cause impairment of recreational opportunities?	No	This project considers restoring ecological system and habitats
	Will the project cause disproportionate impact to women or other disadvantaged or vulnerable groups	No	The project does not cause any adverse impact to women and vulnerable group.
	Does the project include measures to avoid corruption?	Yes	This issue was considered by the project and the project budget proposed for field works will be presented or reviewed by National Fisheries Refugia Committee to ensure transparency.

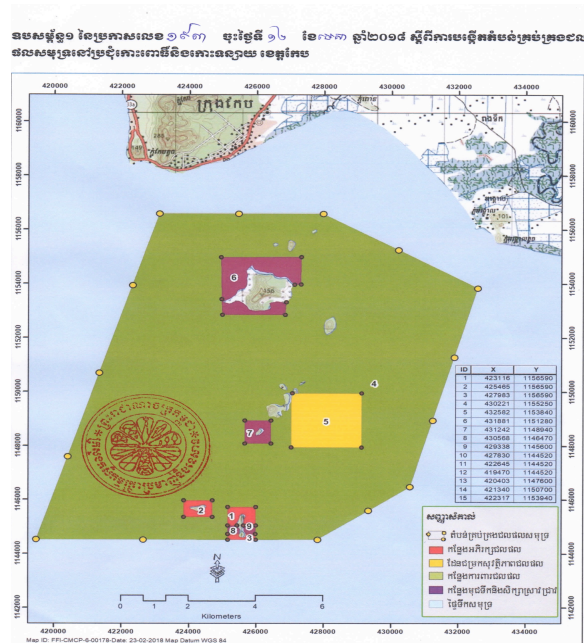
PART 2: Statistical Data (if country already provided data up to 2020, please provide data of 2021 only)

Indicators	Type of Boat	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
<i>Number of fishing boat at refugia sites from 2006 - 2021</i>	Fishing boats without engine																134

Site 1: Fisheries Refugia in Kep province	Fishing boats with engine in <10hp																	290	
	Fishing boats with engine in 10-30hp																		304
	Fishing boats with engine in >30-50hp																		0
	Fishing boats with engine in >50hp																		0
Number of fishing boat at refugia sites from 2006 - 2021 Site 2: Fisheries Refugia in Kong Kong Province	Fishing boats without engine																		1
	Fishing boats with engine in <10hp																		2613
	Fishing boats with engine in 10-30hp																		706
	Fishing boats with engine in >30-50hp																		67
	Fishing boats with engine in >50hp																		10

<i>Number of fishing boat at refugia sites from 2006 - 2021</i> Site 3: Fisheries Refugia in Kampot Province	Fishing boats without engine																	134	
	Fishing boats with engine in <10hp																		410
	Fishing boats with engine in 10-30hp																		623
	Fishing boats with engine in >30-50hp																		6
	Fishing boats with engine in >50hp																		0

Annex 1: Refugia Site-1 Name: Marine Fisheries Management Area including Blue Swimming Crab Refugia at Koh Po and Koh Tonsay Archipelago, Kep province



Position Coordinate: (WGS84 format)

Code No.	Types of Management Location	Size (ha)	Location Name	Axis (x)	Axis (Y)
1	Fisheries Conservation Area	49	Kep village, Kep commune, Kep city	455154	1145724
				425154	1145047
				425454	1145047
				425616	1145048
				425989	1145047
2	Fisheries Conservation Area	45	Kep village, Kep commune, Kep city	423746	1146074
				423746	1145260
				424793	1145260
				424793	1146074
3	Fisheries Conservation Area	15	Kep village, Kep commune, Kep city	425155	1144728
				425154	1144519
				425989	1144519
				425989	1144728
Total Area		109			
4	Fisheries Protection Area	10412	Damnak Chorng Oeur Disrtict and Kep city	323116	1156589
				425465	1156589
				427983	1156589
				430221	1155251
				432581	1153840
				431881	1151276
				431223	1148870
				430568	1146474
				429338	1145595
				427830	1144518
				422631	1144521
				419470	1144523
				420496	1144904
421340	1150696				
422289	1153846				
Total Area		10412			
6	Recreation Area (eco-tourism area at sea bottom)	283	Kep village, Kep commune, Kep city	427105	1153996
				427211	1153979
				427211	154990
				425016	1154990

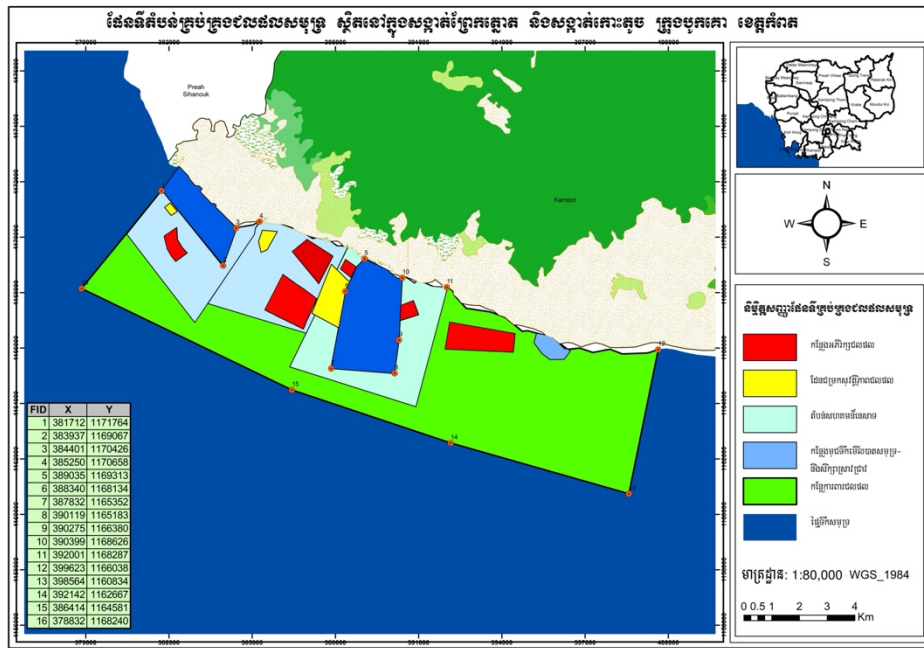
				425016	1153320
7	Recreation Area (eco-tourism area at sea bottom)	64	Kep village, Kep commune, Kep city	425652	1148939
				426448	1148938
				426448	1148076
				425651	1148076
8	Recreation Area (eco-tourism area at sea bottom)	11	Kep village, Kep commune, Kep city	425154	1145047
				425454	1145047
				425155	1144728
				425555	1144728
9	Recreation Area (eco-tourism area at sea bottom)	11	Kep village, Kep commune, Kep city	425616	1145048
				425989	1145047
				425989	1144728
				425689	1144728
Total Area		369			
Grand Total		11307			

Annex 2: Refugia Site-2 Name: Mackerel Refugia at Peam Krasob, Koh Kong province

Position Coordinate: (WGS84 format)

Code No.	Name of Fisheries Refugia Site	Size (ha)	Location Name	Axis (x)	Axis (Y)
1	Mackerel Refugia at Peam Krasob, Koh Kong province	1283	Peam Krasob 1 and 2 village, Peam Krasob commune, Mondol Sema district	282377	1268254
				281280	1269992
				279690	1272269
				277268	1271174
				277813	1270344
				278294	1269592
				278746	1268905
279161	1268570				
280372	1267030				
Total Area		1283			

Annex 3: Refugia Site-3 Name: Draft Map of Marine Fisheries Management Area including Grouper Refugia at Preak Thnoat and Koh Touch, Kampot province



This map has not been approved by Kampot Provincial Governor yet

Position Coordinate: (WGS84 format)

Code No.	Name of Fisheries Refugia Site	Size (ha)	Location Name	Axis (x)	Axis (Y)
1	Seagrass Conservation Area (red color)	50	Tropaing Ropoav village, Prek Thnoat commune, Bokor City	382305	1169917
				382481	1169626
				382659	1169430
				382240	1169123
				382086	1169313
				381940	1169562
2	Coral Reef Conservation Area	118	Tropaing Ropoav village, Prek Thnoat commune, Bokor City	381821	1170039
				382281	1170353
				386973	1169922
				387911	1169317
				387399	1168318
				386441	1169482
3	Seagrass Conservation Area (red color)	200	Tropaing Ropoav village, Prek Thnoat commune, Bokor City	386837	1166681
				385451	1167380
				386107	1168660
				387324	1167782
4	Coral Reef Conservation Area (red color)	32	Tropaing Ropoav village, Prek Thnoat commune, Bokor City	391002	1167200
				390329	1166987
				390353	1167539
				390811	1167716
5	Seagrass Conservation Area (red color)	19	Tropaing Ropoav village, Prek Thnoat commune, Bokor City	388181	1168850
				388363	1169200
				388748	1168928
				388561	1168543
6	Coral Reef Conservation Area (red color)	201	Tropaing Ropoav village, Prek Thnoat commune, Bokor City	394411	1165850
				391948	1165961
				392117	1166934
				394475	1166522
Total Area		620			
7	Fisheries Refugia Area (yellow color)	50	Tropaing Ropoav village, Prek Thnoat commune,	382300	1170929
				382078	1170783
				381835	1171078

			Bokor City	382046	1171234
8	Fisheries Refugia Area (yellow color)	70	Prek Thnoat village, Prek Thnoat commune, Bokor City	385904	1170204
				385539	1169551
				385317	1169448
				385228	1169847
				385364	1170254
9	Fisheries Refugia Area (yellow color)	164	Chorng Horn village, Prek Thnoat commune, Bokor City	387851	1169026
				388513	1168377
				388358	1168044
				388121	1166727
				387147	1167255
Total Area		284			
10	Recreation Area (eco-tourism area at sea bottom) (slight blue color)	74	Chorng Horn village, Prek Thnoat commune, Bokor City	396462	1165991
				396229	1165686
				395726	1165671
				395427	1165893
				395137	1166283
				395233	1166626
				395545	1166569
				395753	1166511
				395906	1166403
				396241	1166065
				396349	1166060
				396462	1165991
Total Area		74			
11	Fisheries Protected Area (green color)	6142	Prek Thnoat village, Prek Thnoat commune, Bokor City	382635	1170351
				383969	1169066
				384426	1170434
				384573	1170372
				389130	1169433
				388745	1169020
				388342	1168142
				387831	1165356
				390107	1165168
				390388	1168711
				399209	1165915
				397484	1160491
				391924	1162429
				387526	1164133
				383808	1165641
				378650	1168119
				381755	1171744
Total Area		6142			

	12	Community Fisheries Area (grey color)	836	Tropaing Ropoav village, Prek Thnoat commune, Bokor City	383847	1169072
					384428	1170435
					383515	1170648
					382970	1166973
	13	Community Fisheries Area (grey color)	822	Prek Thnoat village, Prek Thnoat commune, Bokor City	380462	1170173
					385196	1170437
					388486	1169732
					386892	1166536
	14	Community Fisheries Area (grey color)	126	Chorng Horn village, Prek Thnoat commune, Bokor City	383443	1167569
					388444	1169752
					386337	1165414
					390884	1163975
	Total Area				1784	
	Grand Total Area				8904	