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Phu Loc, 9 September, 2008

PLAN
On rearrangement and alternation of fish corrals in Cau Hai lagoon – Phu Loc district – Thua Thien Hue province

Cau Hai lagoon in Phu Loc district has an area of 9,800 ha with various aquatic species, many of them are special. Therefore, capture fisheries have developed rapidly and become the main livelihood for many local people.

Such development has promoted production forces such as: capture tools, various activities which created a main income activity, providing works for and improving livelihoods for the district fishermen

However, since 1980s, the number of fish corrals has started breaking out; the density has more and more increased; lagoon environment has been abused; the water quality has increasingly polluted.

Despite of the fact that the DPC has conducted some management solutions such as removal of shrimp pen culture in 2003-2004; the project of planning and rearrangement of fish corral in the lagoon for the period 2006-2008; yet, the above-mentioned acts are only the preliminary steps.

In order to conduct the Action Plan in implementation of the Resolution no 06/NQ-TU dated June 15, 2007 of the Provincial Committee of the Party, session VIII on Thua Thien Hue sea and lagoon economic development from now on until 2010 and vision to the year 2020 issued together with the decision no 2093/QD-UBND dated September 15, 2007 by the Provincial People's Committee of Thua Thien Hue and the letter no 5455/UBND-NN dated December 11, 2007 regarding implementation of arrangements in 2008.

Based on the inheriting the achieved results, the district PC has developed plan on rearrangement plan and alternate the fish corral practice in the Tam Giang – Cau Hai lagoon, Phu Loc district for the period 2008-2010.

I. Stake trap status and management of lagoon capture fisheries:

1. The resolution no 7e/NQ-HDND is issued by the Phu Loc People's Council dated November 19, 2006 planning biological conservation site, rearrangement of take trap and bottom net in Cau Hai lagoon for the period 2006-2010, on that basis, the project has been planned by the district People's Committee and the following achievements has been made:

- 10 concrete poles were placed to demarcate the commune administrative boundaries in the inland and water areas

- 242 stake traps encroaching the waterway transport corridor and buffer zone were released, reaching 100% of the plan.
- 707 stake traps was positioned and rearranged, each unit with the length ranging 300-500 m, mouth width is 150 m, the distance between the upper and low row is 150 m.

In general, the buffer zone was cleared with the distance from shore of 200m, facilitating for open waterway transport, and improved lagoon environmental landscape.

Although the quantity is reduced by 12.3% but this figure has not meet the requirements by the provincial authority, the distribution is still even, the production zoning was not been made. Many households were reduced stake trap or not able to practice fishing activity but they have not been supported for with livelihood alternation.

Table 1: Distribution of stake trap quantity in Phu Loc in 2008

No	Commune name	Water area (ha)	Quantity before rearrangement in 2006 (unit)	No of reduced unit	Positioned and rearranged as per plan (unit)	In which		Density after rearrangement (unit/ha)
						Rearranged	Ongoing to August 30, 2008	
1	Vinh Hung	528	33	21	12	12	-	0.02
2	Vinh Giang	1,028	112		112	80	32	0.10
3	Vinh Hien	1,698	140		140	140	-	0.08
4	Loc Binh	1,207	106	2	104	104	-	0.08
5	Loc Tri	1,245	107	2	105	105	-	0.08
6	Phu Loc	1,348	90		90	30	60	0.06
7	Loc Dien	2,592	195	60	135	50	85	0.05
8	Loc An	132	23	14	9	9	-	0.06
	Entire district	9,778	806	99	707	530	177	0.06

2. Lagoon capture fisheries management:

There are nearly 1.000 units of zig-zag gill net, and over 30,000 Chinese cage-line trap (lừ) in the entire district. The fishing ground management, mesh size, fishing gears were not gained sufficient attention. Capture fisheries has spontaneously taken place even during spawning season and spawning ground....aquatic resource therefore are not protected. Although 10 FAs have been established in 04 communes: Vinh Hien, Loc Binh, Loc Tri and Loc Dien but it is challenging to manage, supervise and settle destructive activities such as electricity fishing, clam raking, eel raking with engined-boat.

Therefore, rearrangement and alternation of stake trap and reasonable “boat hang up” will help fisherman in effective fishing and protect optimally aquatic resources.

Table 2: Distribution of main fishing gear quantity in 2008

No	Commune name	Zig-zak gill net	China lừ (unit)	Remark
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1	Vinh Hung	110	4,620	
2	Vinh Giang	160	4,800	
3	Vinh Hien	196	2,925	
4	Loc Binh	165	6,300	
5	Loc Tri	148	5,400	
6	Phu Loc	145	4,050	
7	Loc Dien	63	1,600	
8	Loc An	10	400	
	Total	997	30.095	

II. Rearrangement details and stake trap alternation:

1. Objective:

1.1 General objective: Reasonably rearrangement of fish corral to restore, protect and develop aquatic resources, ensuring long term livelihood for the lagoon fisherman as well as protect the landscape, environment and tourism development potential for the future.

1.2 Specific objective:

- Develop structure of capture fisheries activities which is appropriate to each water body, facilitating a stable environment for fisheries production in the Cau Hai lagoon.
- Identify boundaries in the water surface of Cau Hai, facilitating for management and production
- Restore aquatic resources, reduce capture fisheries pressure
- Regulate restricted fishing seasons in the district
- To be convenient for waterway transport, and flood and storm preparedness

2. Requirements

The rearrangement planning should be prompt, throughout and public and ensuring social equality; the consistency should be made among officer, communist and fishermen with stake trap. The occupation of people should be ensured stable after planning.

3. Rearrangement details and stake trap alternation:

3.1 Stake trap:

a. Arrangement:

There are 707 units of stake trap in 2008, so as to reduce haft quantity of the stake trap by 2010 according to the item 2, article 1 of the decision numbered 3677/QD-UB dated October 25, 2004 by the Thua Thien Hue. 353 unit will be rearranged, reducing 50% as compared to 2008, the average density if 0.03/unit/ha (the average density of the province if 0.06 unit/ha), including: Vinh Hung 6 unit, Vinh Giang 586 units, Vinh Hien 70 units, Loc Binh 52 units, Loc Tri 52 units, Phu Loc 45 units, Loc Dien 67 units, Loc An 5 units.

The arrangement will make rows according to the plan and follow the below principles:

- + Stake trap should not be installed in the buffer zone (the distance of the buffer zone is regulated)
- + Not violate the regulation of inland waterway transportation
- + The immigration route for aquatic species should be taken into account

- + The stake trap should be located at least 75m far from the administrative boundaries of the two adjacent communes
- + The distance between the upper and lower row is at least 150 m
- + The distance between the two adjacent units is at least 150m.
- + The width of the unit mouth is 150. The size can be wider up to 200m in Loc Dien and Phu Loc (because of weak flow in the areas)
- + The wing length ranges from 300-350m

b. Activities alternation:

354 units will be reduced (50% reduced as compared to 2006) including: Vinh Hung:6, Vinh Giang: 56, Vinh Hien: 70, Loc Binh: 52, Loc Tri: 53; Phu loc: 45; Loc Dien : 68 and Loc An:04. Based on that, it is identified the number of household that should alternate activities or share fishing. Therefore, the capture impact to the year 2010 is accumulatively reduced 71% (over 31% as per the decision no 3677/UBND of the Thua Thien Hue province) in which: 56% reduced in quantity, 15% reduced in scale)

Table 3. Distribution of stake trap quantity after rearrangement and activities alternation to 2010

No	Commune name	Status of fish corral quantity (unit)	Reduce by 50% for alternation (unit)	Rearranged quantity to 2010 (unit)	Density
	Vinh Hung	12	6	6	0.01
	Vinh Giang	112	56	56	0.05
	Vinh Hien	140	70	70	0.04
	Loc Binh	104	52	52	0.04
	Loc Tri	105	53	52	0.04
	Phu Loc	90	45	45	0.03
	Loc Dien	135	68	67	0.02
	Loc An	9	4	5	0.03
	Entire district	707	354	353	0.03

3.2. Management arrangements:

3.2.1 Administrative management

License issuance: The district PC issued capture fisheries license to village fisher-folk organizations within the water area specifying the quantity, type of fishing gears, season and species allowed to be caught.

Improve the minimum mesh size 2a in 2010:

- + Stake trap 14mm (currently used 2-4mm)
- + Tail of bottom net 18mm (currently used 5mm)
- Establish village or inter-village fisher-folk organizations

3.2.2. Community based management

Establish self-help groups to strengthen ownership of the fishermen as they are allocated with water surface for capture fisheries and aquatic resource using in the best effective manner.

4. Solutions

People's Committee of communes and town with water surface area should organize to grasp through the policy of the fish corral rearrangement and planning in the lagoon for officials and communists. Based on that, the information should be disseminated to fishermen to raise their awareness on the necessity of the planning and rearrangement of stake trap in the lagoon to reach consensus among peoples.

One commune will be selected as a pilot to draw experiences to timely deal with obstacles during implementing and submit to DPC for timely action.

The new entities (laborer, boat, fishing gears) are not allowed to participate in capture fisheries in the district lagoon area and issue permit for lagoon capture fisheries activities.

Manage rearranged fishing ground and strictly settle the violators

5. Budget for implementation: (See attached list)

a) Support to fishermen	14,809,0 million vnd
- Removed households:	12,514.5 million vnd
- Rearranged households:	2,294.5 million vnd
b) Cost of water demarcation:	480.0 millino vnd
c) Operation cost:	559.0 million vnd
d) Management cost:	158.0 million vnd
Total expense:	16,006.0 million vnd

In which:

Provincial budget:	15,289.0 million vnd
District budget:	717.0 million vnd

III. MANAGEMENT AND IMPLEMENTATION ARRANGMENTS

1. Investor: Phu Loc District People's Committee

- Agency in collaboration: Provincial and technical agencies
- Technical agency: DARD

2. Funding sources: propose to provincial authority to provide support 100%

3. Workload:

- 3.1 Activities survey, and development of fisher folk organization
- 3.2 Demarcation
- 3.3. Propaganda and mobilization of people for rearrangement and alternative livelihood and options for water surface exploitation allocation
- 3.3 Develop rearrangement options
- 3.4 Arrangement conduction

4. Products

- + Map of stake trap status after reorganization
- + Report on socio-economic impact evaluation after rearrangement

5. Implementation arrangements:

5.1. At district level

A steering committee is established chaired by the Vice Chairman of the District People's Committee and relevant members. The committee takes responsibility for assisting the district in

supervision of implementations in localities; keep regular follow-up and timely report to PPC and DPC in the different periods of plan implementation. The committee shall work in collaboration with DARD and relevant sectors and agencies to develop policies and provide technical support as well as alternate their activities. During implementation, the DPC will consider for changes or adjustment and supplement if any obstacles arised.

5.2 At commune and town level:

The Steering Committee will be established chaired y the Chairman of People’s Committee of commune or town and relevant members such as Fatherland Front, Farmer’s Association, Women’s Union, Youth Union. The steering committee acts the following function:

- + Disseminate the plan to the households to share the same awareness and policies of the authorities.
- + Work in collaboration with district DPC and DARD in surveying and identification of fish corral and households quantity involving in capture fisheries with fish corral and other fishing gears. An assessment will be made to understand the need and expectation of people in fish corral rearrangement and activities alternation.
- + The self-managed groups shall be strengthened to complete the above tasks in coordination with commune and town steering committee

A working group will be set up including relevant members to check, control and coerce in removal and sanctioning of the household who do not abide the plan.

6. Implementation period: From July, 2008 to 2010:

6.1. From July – December 2008: The governing agency made the decision

From August – November 2008:

- Steering committee at district and commune level shall be established for information dissemination and mobilization
- Survey and develop arrangement options
- Demarcation of administrative boundaries and zoning in the water body
- December 2008: Publicize the selected option and posting the list

6.2 From January – December 2009:

Remove 354 units including: Loc An (04), Loc Binh (52), Loc Tri (53), Loc Dien (68), Vinh hung (06), Vinh Giang (56), Vinh Hien (70) and Phu Loc (45).

6.4. From September 2009 until December 2009: checking and reporting results

Recommendations:

- DARD, DPI, Department of Finance are recommended to review the plan by Phu Loc DPC so that DPC can submit to PPC
- PPC is recommended to approve the plan and allocate budget, facilitating the DPC in conduction of the plan in the timely manner.
- PPC is recommended to consider to provide funding for 99 households whose fish corrals shall be removed and provide support for their livelihood alternation in 2007.

Recipients:

PPC

DPI

Department of Finance

DARD

Standing committee of the district People’s Council

FOR THE DISTRICT PEOPLE'S COMMITTEE

SIGN ON BEHALF OF CHAIRMAN

VICE-CHAIRMAN

Chairman and Vice Chairmen of the DPC

Relevant agencies, sectors

Relevant CPC, town PC

District specialist and archived

NGUYEN THANH HA