



# FISHERIES

## Annual Report 2008

# *Vision and Mission*

A modernized fisheries that is technologically advanced and globally competitive. Its transformation is guided by sound management practices of resource sustainability, the principle of social justice and strong private sector participation.

Sustainable fisheries and aquatic resources that support globally competitive fisheries industries and self-reliant fisheries communities, and contribute to food security and poverty alleviation.

## *We are committed to:*

Conserve, protect and sustain the management of the country ' s fishery and aquatic resources;

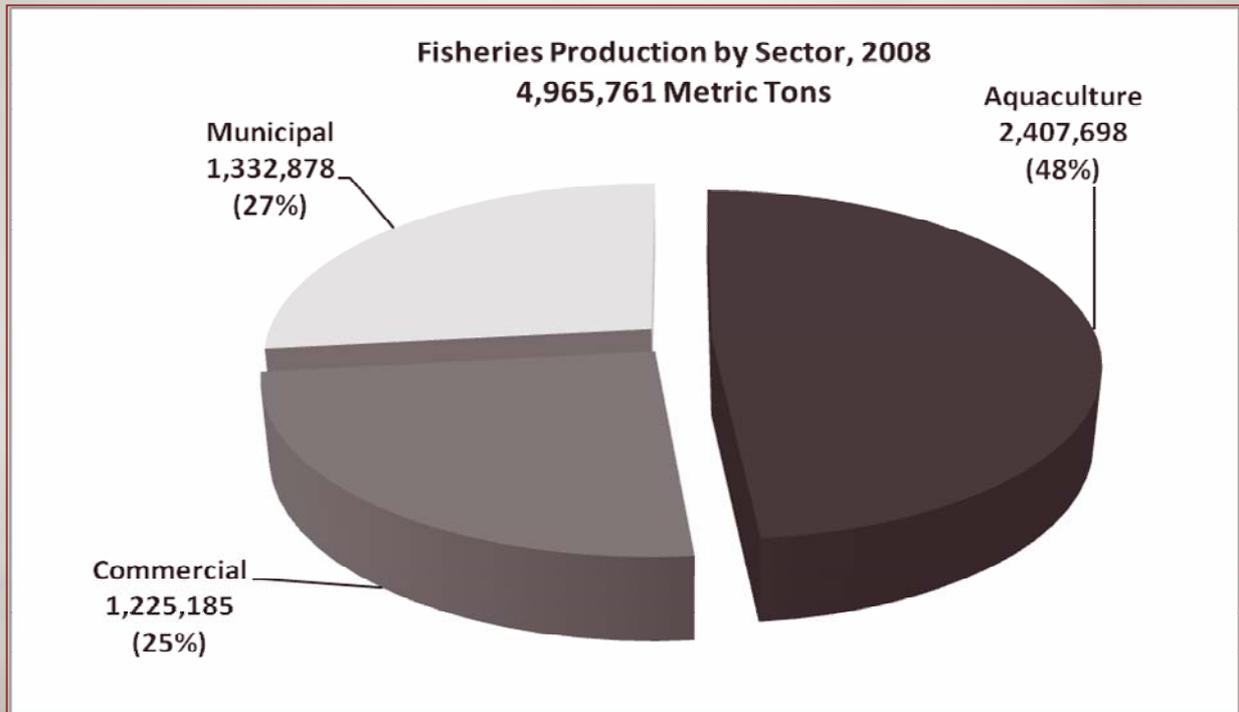
Alleviate poverty and provide supplementary livelihood among municipal fisherfolk

Improve productivity of aquaculture within ecological limit;

Utilize optimally the offshore and deep-sea resources; and

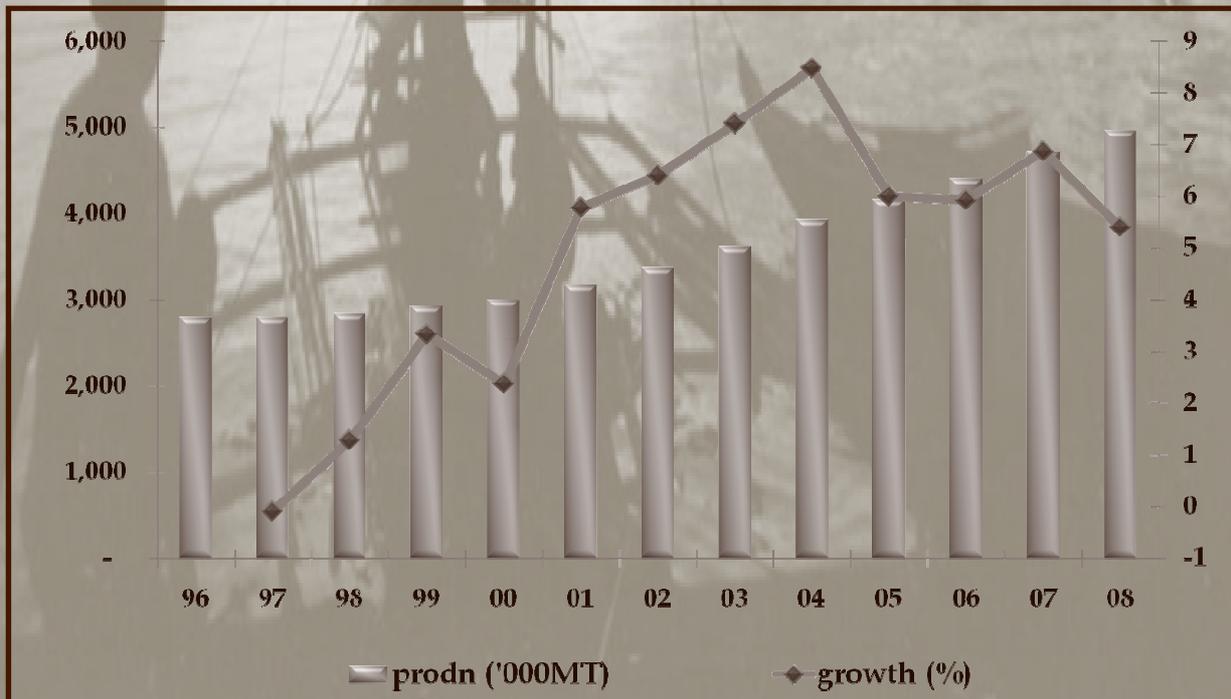
Upgrade post-harvest technology

# Performance



For 2008, the laudable performance of the fisheries sector posted a total production of 4,965,760.75 metric tons or 5.40 percent increase from 4,711,252.4 metric tons produced from the previous year.

Of the total fisheries production for this period, the bulk came from aquaculture sector or 48 percent with its production of 2,407,698 metric tons, which represents a 8.71 percent increase from last year's aquaculture production. Municipal fisheries has a contribution of 25 percent (1,332,878 metric tons), while a 27 percent (1,225,185 metric tons) was contributed by the commercial fisheries. For the period, commercial fisheries registered a net increment of 2.78 while municipal fisheries registered a 2.19 percent change.



# Milestones

The remarkable performance of the fishery industry for 2008 was achieved through the concerted efforts of the Bureau of Fisheries and Aquatic Resources (BFAR), its Regional Offices, Regional Fisheries Training Centers (RFTCs), in coordination with fishery-related agencies and local government units (LGUs) and the private sector. The following projects and activities were implemented in support of the government's Ginintuang Masaganang Ani (GMA) for Fisheries Program:

## MODERNIZED AND SOCIALLY EQUITABLE AGRICULTURE AND FISHERY SUPPORT SERVICES FOR INCREASED PRODUCTIVITY AND INCOME



fishing gears & paraphernalia



### PRODUCTION SUPPORT SERVICES

#### Agribusiness Lands Development

- ❑ Assessed and validated a total of 7,989.78 hectares of 'new lands' (off-shore and inland bodies of water for mariculture and aquaculture development) for fisheries primarily intended for tilapia freshwater fishponds, fishpens and fishcages (2,059.11 hectares); brackishwater fishponds and mariculture parks for bangus (2,143.67 hectares), seaweeds (3,162.04 hectares) and 624.97 hectares for other fisheries commodities and activities that include *polyculture*, *aquasilviculture*, mussels, oysters and stock enhancement.
- ❑ Facilitated in developing about 8,557.30 hectares of 'new lands' for agribusiness which consisted of 1,887.25 hectares for tilapia farming, 3,156.58 hectares for bangus farming, 2,805.46 hectares for seaweeds culture and 728.01 hectares for other commodities and activities. From these 'new lands' developed, the fisheries sector has generated about 127,377 new jobs.

#### Fish Seed Production and Distribution

- ❑ Produced 2,909,590 pieces of broodstocks (2,197,742 pieces GET Excel tilapia, and 347,548 of other species of fish); dispersed 2,181,218 pieces of broodstocks (1,720,405 pieces GET EXCEL tilapia and 287,189 pieces other species of fish).
- ❑ Produced 197.3101 M of fingerlings (154.987 M GET Excel tilapia and 31.392 M other species of fish and dispersed 166.2851 M (136.82 M GET Excel tilapia, and 21.319 M other species of fish).
- ❑ Produced 1,405,561 "Ulang" post larvae and dispersed 1,343,129 pieces.

#### Distribution of Fishing Gears/Paraphernalia

- ❑ Distributed a total of 10,698 fishing gears such as 2,901 gillnets, 3,619 hook and lines, 1,941 fish pot, 12 lambaklad, 170 payaos, 160 squid jiggers, and 1,895 other fishing paraphernalia benefiting 7,418 marginal fisherfolk in coordination with the local government units (LGUs).

#### Input Assistance

- ❑ Provided 24.559 M fingerlings, 341,216 kgs of seaweeds seedlings, and other farm inputs to 4,565 fisherfolk beneficiaries.



**BFAR Seaweed Nursery, Region 9**



**Deep-Sea Seaweed, Region 8**



**Guiuan, Eastern Samar, Region 8**



**Deep-Sea Seaweed, Region 9**

**Establishment of Seaweed Nurseries**

- ❑ 97 seaweed nurseries were established in both traditional and non-traditional areas nationwide. Seaweed nurseries and production farms are being continuously monitored. Test plots were also established to validate the viability of seaweeds in the proposed target sites.
- ❑ Coordinated continuously with the local government units (LGUs) nationwide for proper identification of cooperators and possible cost-sharing scheme.

**Maintenance of Bangus and Tilapia Central and Satellite Hatcheries**

- ❑ Maintained five central bangus hatcheries located at NIFTDC, Bonuan, Binloc, Dagupan City; Calape, Bohol; Tiwi, Albay; Guiuan, Samar; and San Jose, Naujan, Oriental Mindoro. The hatchery in Mindoro has successfully finished constructing its water system and has been scheduled to conduct a test run this year.
- ❑ Five satellite bangus hatcheries are now operational at Argao, Cebu; Bais City, Negros Oriental; San Felipe, Zambales; Zabali, Baler, Aurora; and Claveria, Cagayan.
- ❑ Nine satellite tilapia hatcheries maintained are located at Iguig, Cagayan; Bamban, Masinloc, Zambales; Hanga, Hagonoy, Bulacan; Malandog, Hamtic, Antique; Onion, San Francisco, Cebu; Lopok, Guiuan, Eastern Samar; Catarman, Northern Samar; and San Roque, Northern Samar.



**Bangus Satellite Hatchery, Region 2**

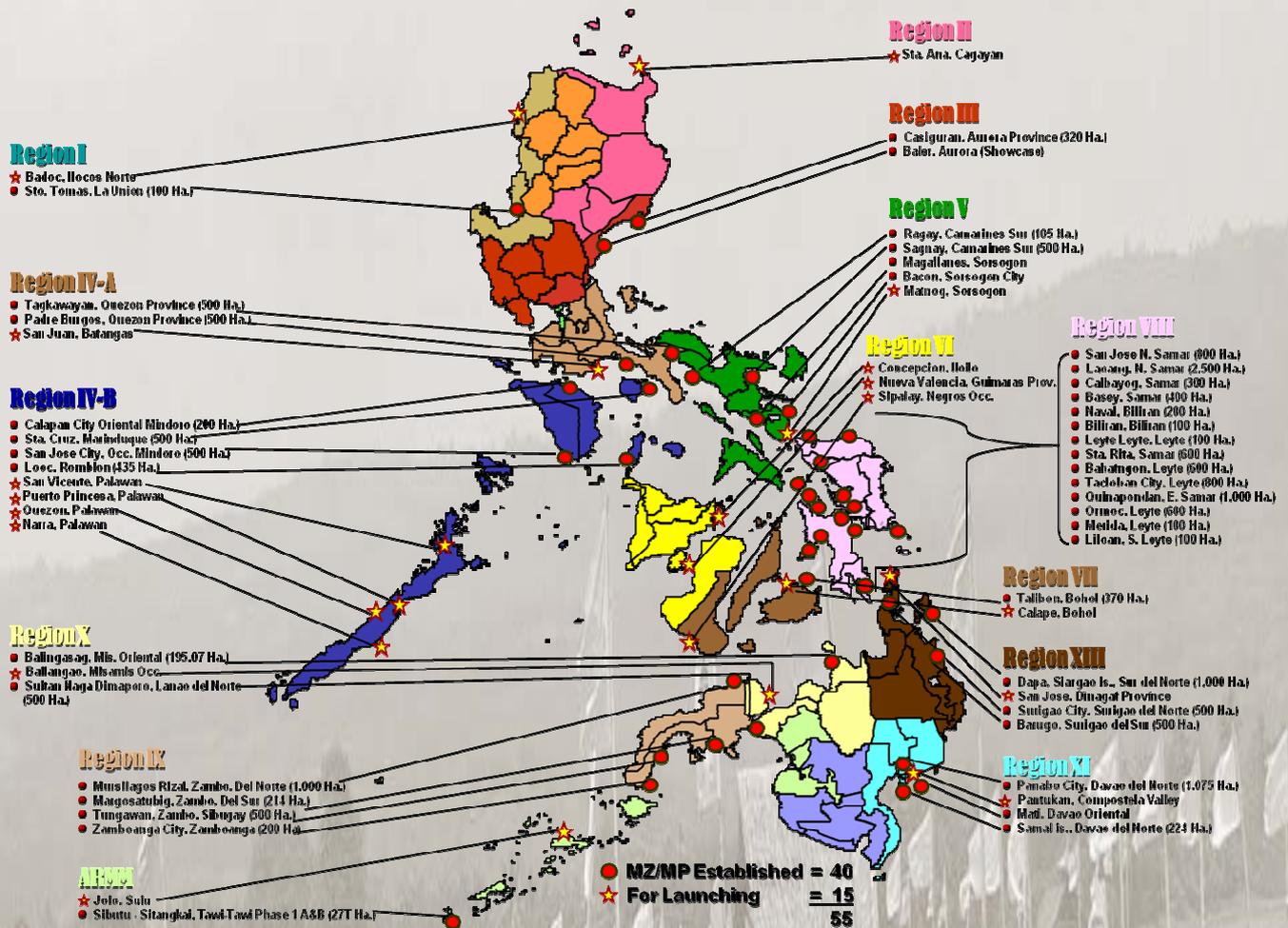


**Bangus Satellite Hatchery, Region 3**



**Bangus Satellite Hatchery, Bohol**

## Maintenance of Mariculture Parks/Zones



Maintained the following mariculture zones/parks:

- *Finfish Mariculture Parks located at Rosario and Sto. Tomas, La Union and Sual, Pangasinan; and Seaweed Mariculture Zones at Dasol and Infanta, Pangasinan and Balaoan, La Union (Region 1)*– Sto. Tomas MZ has a total production of 47.6775 MT. The Rosario MZ was stocked with 1,500 pieces of *pompano* in the techno-demo corner, however, the cages were ruined and the stock vanished during Typhoon “Cosme”. At present, it has 1,441 pcs *pompano* stocks. As for the Seaweeds Mariculture Zone, a total of 1,025.5 MT were produced and ready to be harvested.
- *Casiguran, Aurora (Region III)*– Ongoing *bangus* culture in the Park’s demo-cage are monitored regularly by the technical staff of the regional office. Regular meeting of the Executive Management Council (EMC) is held to discuss the progress of the project.
- *Padre Burgos Mariculture Zone (Region IV-A)*– After 5 months culture, a total of 8,467 pieces marketable-sized *pompano*, *Trachinotus blochii* (2 pcs/kilo) were harvested from six units of fishcage research project on February 28, 2008; 98% survival rate was noted.
- *Tagkawayan Mariculture Zone (TMZ) (Region IV-A)*
- *Ragay Mariculture Zone and Sagnay Mariculture Zone located at Barangay Lower Omon, Ragay and Sagnay, Camarines Sur (Region V).*
- *Margosatubig Mariculture Park, Zamboanga del Sur and Tungawan MZ, Zamboanga Sibugay (Region IX)*– Margosatubig MZ is under the supervision of LGU Margosatubig. At present, a total of 680 pieces grouper are left from the previous stocks of 1,615 pcs grouper. An Executive Management Meeting was conducted on August 13, 2008 where it was agreed that same meeting be conducted quarterly. Tungawan MZ is newly stocked with 448 pieces of grouper.



Margosatubig MZ, Region 9



Casiguran MP, Region 3



Panabo MP, Region 11



Casiguran MP, Region 3

- ❑ *Balingasag MZ, Misamis Oriental (Region X)*– Consists of 82 investors (six big players and 76 medium players) with 130 units existing cages in the area. Harvest was conducted five times a week and bangus was marketed not only in the region but has reached as far as Cebu City. A total production of 279 MT bangus was achieved this year.



- ❑ *Kaputian, Island Garden City of Samal (IGACoS), Davao del Norte and Panabo, Davao del Norte (Region XI)*– Ten investors, including BFAR, have a total of 49 cages stocked with various species (bangus, kitang, abalone, talakitok, snapper and siganid) and was able to produce 234.394 MT bangus this year.

While Panabo MZ has 53 investors with 184 units fish cages and was able to produce 314.42 MT marketable bangus.

- ❑ *Babatngon, Tacloban, Ormoc & Merida, Leyte; Basey, Sta. Rita & Calbayog, Samar; Biliran and Naval, Biliran; Liloan & Malitbog, So. Leyte; Laoang and San Jose, Northern Samar; and Quinapondan, E. Samar (Region VIII).*



Sagnay MZ, Region 5



Laoang MP, Region 8

### Maintenance of Hatcheries for Other Species (abalone, ulang, finfish, dojo, loach, giant clam)

- ❑ Maintained 12 hatcheries that are located at Lucap, Alaminos, Pangasinan; Looc, Castillejos, Zambales; Zabali, Baler, Aurora; Masinloc, Zambales; Sta. Lucia, Pto. Princesa, Palawan; Poblacion, Mercedes, Camarines Norte; Guiuan, Samar; Anibongan, Kitcharao, Agusan del Norte; La Trinidad and Tuba, Benguet.

### Conduct of Production-related Research Activities

- ❑ 75 research and development projects were implemented nationwide.

### Operation and Management of M/V DA-BFAR Marine Fisheries Management Research Training and Oceanographic Vessel

- ❑ Conducted eight research and development projects.
- ❑ 265 exploratory fishing operations were conducted, oceanography (62), stock assessment (80), and fishing operations (123).
- ❑ Prepared 17 scientific/technical papers as result of the studies conducted by the vessel. Shipboard/ apprenticeship trainings were also conducted.



Abalone Cage



Sea Cucumber



Eel



Ulang



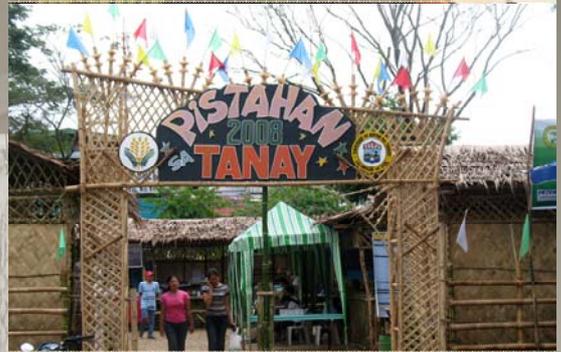
## MARKET DEVELOPMENT SERVICES

### Market Matching and Participation to Agri-Aqua Fairs and Exhibits

- ❑ BFAR provided suitable information on market matching between buyers and sellers of fish and fishery product to ensure close relationship among fisherfolk, buyers, traders and processors. Extended 108 market matching activities benefiting 1,761 individuals and 124 cooperatives and associations.
- ❑ Participated in 107 Agri-Aqua Fairs and Exhibits to showcase various fish culture production, post harvest technologies, etc. Assisted investors, producers and traders in marketing the products as well as providing linkages to credit institutions to finance their business ventures.
- ❑ Investment fora were conducted by BFAR 1 wherein the concept on “product branding” was recognized, finalized and agreed by the bangus producers particularly in the major bangus-producing municipalities. Through branding, bangus produced in Pangasinan will be distinguished from other bangus in terms of taste, quality and texture. As a result, a bangus producer from Bolinao, Pangasinan had signified his intention to pursue Bangus Branding.



SM KABALIKAT SA KABUHAYAN TRADE FAIR 2008



3rd Agri-Trade Fair-Tanay, Rizal

## CREDIT FACILITATION SERVICES

- ❑ Assisted 510 individuals and 56 cooperatives in the preparation of feasibility studies and project proposals as an important requirement in accessing loans.
- ❑ Conducted consultations/orientations with fisherfolk associations regarding the implementation of the Fisheries Financing Program. Site assessments and field validation of proposed projects were undertaken in Mauban, Quezon; Sibonga, Cebu; Panabo, Davao; Sibunag, Guimaras; Calaca, Batangas; Barra, Lucena; Gigmoto, Catanduanes; and Castilla, Sorsogon. 31 project proposals were reviewed and endorsed for funding.



7th Philippine Food Expo (PHILFOODEX)- SM Megamall



National Food Summit -Fontana Convention Center, Clarkfield Pampanga



Philippine International Food And Beverage Expo (PIFBEX)-SM Mall of Asia



Lecture on Bangus Branding by RD1 Nestor Domenden



National Food Summit -Fontana Convention Center, Clarkfield Pampanga

**OTHER INFRASTRUCTURE AND/OR POSTHARVEST DEVELOPMENT SERVICES**

**Establishment of Mariculture Parks/Zones**

The following mariculture parks were launched:

- ❑ Talibon MZ, Bohol - (soft launching on February 12, 2008).
- ❑ Surigao City MZ, Surigao del Norte (February 28, 2008).
- ❑ Zamboanga City MZ (March 2, 2008) - It has eight units made of bamboo cages (5mx5m at 5m depth) and two units made of steel cages (10mx10m at 5m depth) with complete accessories. It has a total stock of 600 pieces grouper and with 2 units seaweed nurseries.
- ❑ Sta. Cruz, Marinduque (March 12, 1008)
- ❑ Loooc MZ, Romblon (April 26, 2008)
- ❑ San Jose City MZ, Occidental Mindoro (May 9, 2008)
- ❑ Dapa, Siargao Island ZM (May 10, 2008)
- ❑ Sibuto-Sitangkay, Tawi-Tawi (May 29, 2008)
- ❑ Sultan Naga Dimaporo, Lanao del Norte (July 1, 2008) - Its initial two 10m x 10m x 4m G.I. pipe-fish cages were established in the research and development area of the mariculture park and were stocked with 20,000 pieces of bangus fingerlings in each cage. The cages produced 9.746 MT with an average body weight of 600 grams. Prospect investors have signified interest in putting up cages in the park.
- ❑ Calapan City, Oriental Mindoro (September 24, 2008)
- ❑ Mursilagos, Rizal, Zamboanga del Norte (October 6, 2008)
- ❑ Mati, Davao del Norte (October 15, 2008) - Installed with five units marker buoys, two units 10m x 10m x 5m fish cage frame and one unit 6m x 6m temporary floating platform.
- ❑ Barobo, Surigao del Sur (April 8, 2008)
- ❑ Bacon, Sorsogon City (December 12, 2008)
- ❑ Magallanes, Sorsogon (December 12, 2008)



**Mati, Davao Oriental, Region 11**



**Sultan Naga Dimaporo, Region 10**



**Dapa, Siargao Island, CARAGA**



**Barorobo, Surigao del Sur, CARAGRA**



**San Jose, Occ Mindoro, Region 4B**



**Magallanes, Sorsogon, Region 5**



**ARMM**

### Establishment of Central/Satellite Tilapia & Bangus Hatcheries

- Established satellite tilapia hatcheries at Tumbao, Mangudadatu, Maguindanao and Brgy. Blanca, San Jorge, Samar. Also established a bangus nursery at Dipaculao, Aurora.
- The central tilapia hatchery at DOS, Shariff Kabunsuan was concreted with incubation system.

### Establishment of Multi-Species and Carp Hatcheries

- Established Multi-species fish hatcheries in Tawi-tawi; Guiuan, Eastern Samar; and Manuyog, Sagay, Camiguin.
- Established a carp hatchery in Marantao, Lanao del Sur.

### Construction/Improvement of Municipal Fish Ports by the Philippine Fisheries Development Authority (PFDA)

#### Regional Fish Ports (RFPCs)

- Improvement/rehabilitation works in the eight Regional Fish Port Complexes were completed: Navotas Fish Port Complex (NFPC); Iloilo Fish Port Complex (IFPC); Zamboanga Fish Port Complex (ZFPC); Camaligan Fish Port Complex (CFPC); Lucena Fish Port Complex (LFPC); Sual Fish Port Complex (SFPC); Davao Fish Port Complex (DFPC); and General Santos Fish Port Complex (GSDPC).
- Ongoing are seven projects in four Regional Complexes (NFPC, CFPC, DFPC and GSFC).



Multi-Species Hatchery, Cagayan, Region 2



Multi-Species Hatchery, Tawi-tawi, ARMM



Multi-Species Hatchery, Camiguin, Region 10



PFDA Municipal Fish Port, Basilan

#### Municipal Fish Ports

Completed construction of seven MFPs:

- Ivisan MFP (Bgy. Basiao, Ivisan, Capiz)
- Alfonso Lista MFP (Bgy. Sto. Domingo, Alfonso Lista, Ifugao)
- Bulalacao Fish Landing (Bgy. Poblacion, Bulalacao, Or. Mindoro)
- Macapagal-Durano MFP (Danao City, Cebu)
- San Jose de Buenavista MFP (Bgy. Maybato, San Jose de Buenavista, Antique)
- Mulanay MFP (Bgy. Poblacion, Mulanay, Quezon)
- Nagtipunan MFP (Bgy. Poblacion & San Ramos, Nagtipunan, Quirino)

#### Ice Plants and Cold Storage

- Completed construction of two IPCS (Tandag IPCS, Surigao del Sur and San Juan IPCS, Batangas)



**Establishment of Windmill**

- ❑ BFAR Region XI launched the first aquaculture windmill in the country in Km 92, Magsaysay, RFRDC Nabunturan, Compostela Valley Province. The windmill can produce a wind velocity of 10 to 15 kph in order to supply 45-60 gallons of water per minute for shallow well and 20 gallons water for deep well. The use of windmills in fishpond and hatchery operations is part of the BFAR's strategy to address the high cost of fuel.

**Distribution of Postharvest Equipment**

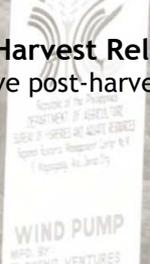
- ❑ Distributed 95 post harvest equipment (18 smokehouses, 10 elevated fish solar dryers, 47 seaweed dryers, and 20 other equipment to 222 individuals and 23 groups/cooperatives as part of BFAR's livelihood program to fisherfolk.

**Value-added Products Formulation**

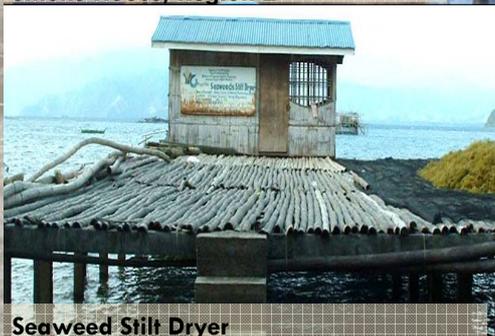
- ❑ 63 value added fishery products were formulated and improved.

**Post-Harvest Related Research**

- ❑ Five post-harvest related researches were conducted.



**Smoke House, Region 2**



**Seaweed Still Dryer**



**Vanna Spam**



**Vanna Cheesy Roll**



**Agar Noodles, Cracknels and Chips**

**Establishment of Windmill, Region 11**

## EXTENSION SUPPORT, EDUCATION AND TRAINING SERVICES

### Provision of Training and Technical Assistance

- ❑ Conducted 1,597 training courses on fishpond construction and management, stock assessment and techniques, construction of lambaklad and marine fishery technology; demonstration on fish harvest and fish processing technology benefiting 46,058 participants.
- ❑ Provided 51,118 technical assistance and advisory services on aquaculture development and methods, marine fisheries management and conservation, fishing technologies, post-harvest technologies. Beneficiaries numbered to 109,554 individuals composed of fisherfolk, LGUs, other NGAs and various stakeholders.



Training



Mussel Techno-Demo, Region 8

### Establishment/Maintenance of Techno-Demo Projects

- ❑ To display fishery technologies and enhance productivity, 552 techno-demo projects were established which include integrated fish farming, marine and freshwater, cluster backyard fishpond, pond culture technology, aquasilvi culture, aquarium fish culture, shellfish culture, fish polyculture, among others. A total of 446 techno-demo projects which are cost-shared with the local government units (LGUs) are being established.



Urban Aquaculture-Fish Condo

### Project Launching and Conduct of Field Days

- ❑ 56 projects of the Bureau were launched; 65 field days were conducted.



Marine Techno Station

### Dissemination/Provision of IEC Materials

- ❑ Reproduced, packaged and distributed 282,455 copies of fisheries information and communication (IEC) materials to promote the Bureau's new programs and projects; 144 billboards were installed nationwide while 294 radio and tv plugs were carried out.



Aquaculture Fish Farm



## Organization/Strengthening of FARMC

- ❑ Held consultative meetings and dialogues to discuss issues and concerns on organizing/reorganizing and strengthening of FARMCs. 69 FARMCs were given assistance on organizing, while 409 FARMCs were on strengthening.
- ❑ Celebrated the Fisherfolk's Month in May wherein several activities were conducted to highlight the celebration. The simultaneous installation of 17 fisherfolk leaders highlighted the opening of the annual celebration of the national Fisherfolk's Month this May. BFAR Director Malcolm I. Sarmiento, Jr. stressed that the Mangingisdang Direktor Program, now on its fourth year of implementation, aims to provide the fisherfolk leaders a glimpse of the government's regular operations by trading places with regular directors. An active FARMC leader based in Region 4A, Milagros Chaves is the first fisherwoman leader to act as BFAR national fisherfolk director to administer the functions of 16 other BFAR regional fisherfolk directors. Director Sarmiento called on the fisherfolk leaders to initiate high impact programs on three important issues besetting the fisheries sector: increasing cost of fuel prices, threats of climate change and livelihood opportunities of marginal fisherfolk in mariculture parks.

## Fisheries Scholarship Program Scholarship for Industry Leaders

- ❑ Eighteen scholars are enrolled for the 18<sup>th</sup> batch as of 1<sup>st</sup> semester, SY 2008-2009.

## Educational Grant

- ❑ For the 3<sup>rd</sup> batch, four scholars graduated (one each from Regions 1 and CARAGA and two from Region 7). 36 scholars are enrolled as of 1<sup>st</sup> semester, SY 2008-2009.
- ❑ As for the 4<sup>th</sup> batch, 37 scholars are enrolled as of 1<sup>st</sup> Semester, SY 2008-2009.

## Gender and Development

- ❑ In recognition of the vital role of women in economic development, BFAR supported GAD thru active participation in various activities focusing on the following areas:
  - ♦ Economic Empowerment - provision of bangus deboning projects; validation and evaluation of Women's Organizations; conduct of seaweeds cooking contest and trainings on HACCP to fish vendors; and distribution of post harvest equipment and machineries.
  - ♦ Gender Responsive Governance - maintained sex-disaggregated data e.g. beneficiaries of trainings and technical assistance for the livelihood programs conducted by the different regions
  - ♦ Women's Right - participated to Women's Month Celebration and conducted IEC campaign on the Convention on the elimination of all forms of discrimination against women
- ❑ Conducted the 1<sup>st</sup> National Planning and Budgeting Workshop in Cagayan de Oro City which mainstreamed GAD activities in the GMA Fisheries performance indicators and translated the 5 percent GAD budget into a Work and Financial Plan.
- ❑ Conducted the Gender Sensitivity Training for top level officers of BFAR in Los Baños, Laguna. It was participated by Regional Directors, Center Chiefs, Regional Fishermen's Training Center Directors and Division Chiefs. It sensitized the top level officers of the Bureau.
- ❑ Increased participation of women in fisheries through post harvest training, validation and evaluation of women's organizations, conduct of cooking contests, participation in trade fair for market promotion.
- ❑ The National Network on Women in Fisheries in the Philippines (NNWFPI) Conference which was co-hosted by BFAR Region 4A was held on May 21-23, 2008 at SEAMEO, INNOTECH Diliman, Quezon City with the theme, "Setting New Gender-Responsive Trends and Challenges Towards Fisheries Development."

## Extension-Related Research

- ❑ 8 extension related researches were implemented.



Fisherfolk Children Examination-CAR



National Network on Women in Fisheries in the Philippines (NNWFPI) Conference

## APPROPRIATE COMPREHENSIVE REGULATIONS AND STANDARDS DEVELOPED, IMPLEMENTED AND MONITORED

### Coastal Resource Management

- ❑ 305 LGUs were assisted in Coastal Resource Management (CRM) planning and fisheries ordinance preparation. 113 rapid resource assessments on fish sanctuaries were conducted. Monitored 166 fish sanctuaries and 53 artificial reefs.

### Red Tide Monitoring

- ❑ On BFAR's commitment to safeguard public health, continuous monitoring of red tide and other biotoxins in critical bays are conducted. 782 monitoring activities were undertaken to protect public health and 14,596 samples were analyzed. Red Tide updates were prepared and disseminated by the National Red Tide Task Force in coordination with government agencies (NGAs) and local government units (LGUs).

### Fish Health Management

- ❑ Maintained 33 fish health laboratories nationwide to address the need for disease diagnosis, prevention and treatment. A total of 19,927 fish/shrimp samples were collected, examined and analyzed involving 5,895 clients.
- ❑ Continuous conduct of on-site water quality monitoring nationwide to determine if the water samples collected are within desirable range.
- ❑ Conducted ocular inspection, surveillance, investigations and on-site analysis of water quality parameters for reported fish kills.
- ❑ Recommended remedial measures on observations and data gathered.

### Inspection of Fish Processing Plants

- ❑ Inspected, verified and monitored processing plants, including the processing establishments accredited as exporters. Conducted regular monthly plant inspections/audit to ensure compliance with the Hazard Analysis Critical Control Point (HACCP)-based quality assurance, Standard Sanitary Operating Procedures Program (SSOP), and Good Manufacturing Practices (GMP). Recommended temporary suspensions for those who did not comply until such time that they have instituted corrective actions to the deficiencies identified under operational and structural requirements.
- ❑ Conducted 7,204 inspections for fishing/freezer vessels, fish processing plants, buying/picking stations, fish port and landing areas, auction markets, ice plants and cold storages and pre-shipment.
- ❑ Accredited/approved 60 freezing vessels and fishery establishments exporting fish and fishery products to European Countries.



Fish Sanctuary





MCS

CBW Dispersal

NSAP, ARMM

Stock Assessment, Antique, Region 6

### Monitoring, Control and Surveillance (MCS)

- ❑ The 14 MCS patrol vessels are in their respective deployment areas. These vessels conducted a total of 84 field operations/missions covering a total of 11,926 nautical miles resulting to apprehensions of 52 local fishing boats, 3 Malaysian fishing vessels in Turtle Island, Tawi-Tawi and one Vietnamese vessel for allegedly conducting rice smuggling in the waters of Balabac, Palawan. The said foreign vessel was turned over to the Bureau of Customs wherein appropriate charges were filed in Regional Trial Court Branch 95.
- ❑ The MCS patrol vessels also helped in the search and rescue operation on the maritime incident involving the M/V Princess of Stars and retrieval operations in the vicinities of West Burias and around coastline of Albay.
- ❑ Established Vessel Database Management System in Regional Office Nos. II, IV-B, V, VIII, IX and XII.
- ❑ BFAR law enforcers conducted 244 field evaluations nationwide to curb illegal fishing in coordination with law enforcement authorities. The performance of BFAR deputized fish wardens and fish examiners were evaluated, and field coaching was resorted accordingly. Fisheries enforcers appeared in court hearings in municipal and provincial trial courts as witnesses to ensure that trial of violators are in progress.

### Operation/Maintenance of the Cyanide Detection Test (CDT) Laboratories

- ❑ Maintained cyanide laboratories in Puerto Princesa, Zamboanga City, Cebu City and Manila in order to detect the presence of cyanide in tissues of live food and aquarium fishes where 1,980 samples were analyzed. Results were used as basis for issuance or denial of export permits.

### Operation of Quality Assurance Laboratories

- ❑ Operated/maintained fisheries quality control laboratories in Quezon City, Cebu City, Iloilo City, Davao City, General Santos City and Zamboanga City to address existing problems on quality assurance program on fish export.
- ❑ Majority of samples analyzed for chemical and microbiological examinations were submitted to different exporters for EU, Japan, USA and fishing vessel operators for products certification, verification and plant monitoring purposes. Chemical analysis includes heavy metals, i.e. lead, cadmium, and mercury; moisture, salt content pH, water activity and histamine. Microbiological analyses include aerobic plate count, yeast, molds, E. coli, enterococci, salmonella, shigella and staphylococcus.
- ❑ Collected 114 samples of assorted fishes and sediments in Sibuyan Sea, Romblon where the sunken commercial passenger ship MV Princess of Stars was located. The said ship was found to contain 10,000 kg of endosulfan. The samples collected were submitted to the Bureau of Plant and Industry - National Pesticide Analytical Laboratory (NPAL) for endosulfan analysis. Results of analysis were negative for the presence of endosulfan.

### Inland Fisheries Management

- ❑ Dispersed a total of 39.468 million tilapia and carp fingerlings to 1,767 communal waters to replenish the stock of depleted resources for the benefit of municipal fishermen throughout the country.

### National Stock Assessment Program (NSAP)

- ❑ Conducted regular surveys in 175 landing centers or observation sites.

## Issuance of Regulatory Documents

- ❑ Issued 191,192 regulatory documents such as Fishpond Lease Agreements (FLAs), Commercial Fishing Vessel Licenses, Fishermen Licenses, Certificates, Clearances, Permits, etc.

## Regulatory-related Research

- ❑ 15 regulatory related researches were implemented.

## Celebration of the Fish Conservation Week

- ❑ The 45<sup>th</sup> annual celebration was conducted from October 20-24, 2008 with “Pagbabago ng Klima: Hamon sa Likas-Kayang Pangisdaan” which focused on the effects of climate change as a threat to fisheries production and the mitigating measures that would ensure fisheries resource sustainability. Various fish conservation and resource management activities were undertaken by the Bureau that led to a meaningful celebration.

## PLANS, POLICY DEVELOPED, IMPLEMENTED, MONITORED AND EVALUATED

### INFORMATION SUPPORT SERVICES

- ❑ Continuous coordination with the Bureau of Agricultural Statistics (BAS) in connection with their production surveys for efficient collection of fisheries data and analysis.
- ❑ The BFAR Fisheries Information Management Center (FIMC) accomplished the following:
  - ♦ Operation and maintenance of e-NGAs system
  - ♦ Maintenance of more than 600 Network PCs and more than 40 Server Groups nationwide
  - ♦ Maintenance of wired and wireless network in 27 buildings nationwide
  - ♦ Operation and maintenance of FIMC and 12 Regional FIMCs
  - ♦ Enhancement of 14 BFAR websites (<http://www.bfar.da.gov.ph/>) and FTP sites

### POLICY FORMULATION, PLANNING AND ADVOCACY SERVICES

- ❑ Amendments to RA 8550 and Fisheries Administrative Orders (FAOs) are being reviewed with the support of the FISH Project and the FARMCs at different levels. Most of the proposed amendments are industry- and fisherfolk-initiated.
- ❑ 902 meetings/consultations and workshops were conducted to address issues and concerns regarding project implementation.
- ❑ Fisheries Administrative Order (FAO) No. 226 - “Regulation on the Mesh Size of Tuna Purse Seine Nets and Trading of Small Tuna” has been approved by the Secretary of Agriculture on August 1, 2008.
- ❑ Hosted the 1<sup>st</sup> Meeting of the Regional Plan of Action (RPOA) Coordination Committee on April 28-30, 2008 at Dusit Thani Hotel, Makati City and was attended by 12 member countries. Also hosted the Philippine-Indonesia Bilateral Meeting on Fisheries Cooperation on May 1, 2008 with the same venue.

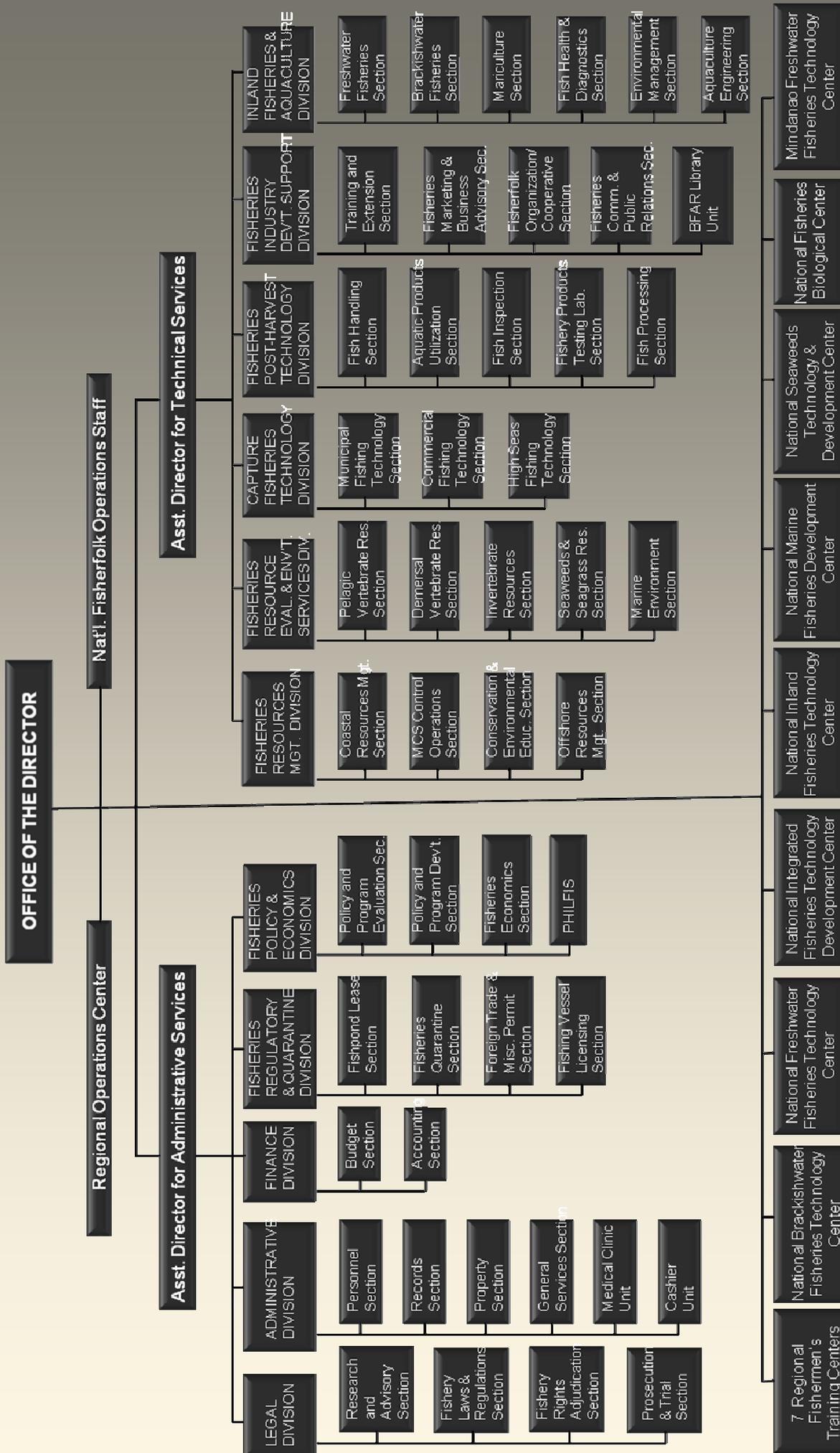


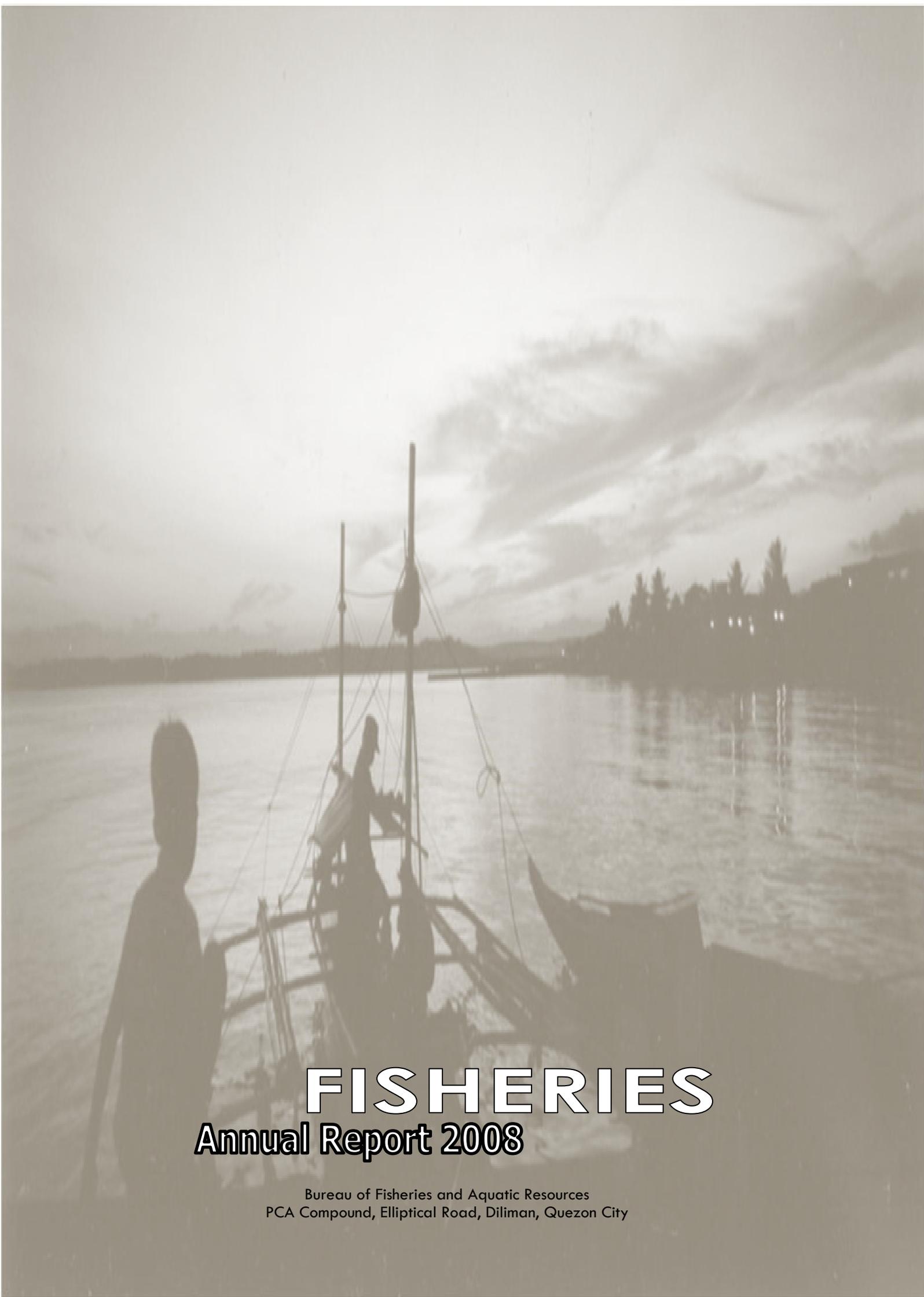
# An Affair to Remember...

# **AQUALINK 2008**



# EXISTING BFAR ORGANIZATIONAL STRUCTURE





# **FISHERIES**

## **Annual Report 2008**

Bureau of Fisheries and Aquatic Resources  
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