Chapter 1 Background and Outline of the Project

The fishing industry and marine products play a vital role in the ASEAN area in terms of earning foreign exchange, generating employment, increasing incomes, and securing food supplies. Marine products are particularly important as a source of food and nutrition in Cambodia, Indonesia, Laos, Myanmar, the Philippines, and Vietnam. Although catch volume has rapidly increased in ASEAN countries, the growth rate is declining in capture fisheries, while environmental conditions have been deteriorating in coastal waters. Though fish demand has shown a high rate of growth, it is feared that fish production and supply will not keep pace with demand.

In order to maintain a stable supply of fish products and insure a sustained level of fishing activity, the member countries of ASEAN–SEAFDEC, recognizing the need for close cooperation in promoting sustainable fisheries and improving the marine environment, have resolved to draw up regional guidelines for setting norms of responsible fishing behavior and effectively monitoring the establishment of sustainable fisheries so as to insure food security in the new millennium. Improving the quality and frequency of stock monitoring surveys while developing technical fishing capabilities appropriate to a sustainable fishery are of paramount importance in fishery and resource management. However, hull damage and equipment superannuation on the two research and training vessels belonging to SEAFDEC / TD pose serious obstacles to at-sea training and the conduct of fishery resource surveys in coastal waters. Accordingly, for purposes of improving both fishery resource surveys and training at SEAFDEC/TD, a Project for Construction of a Fisheries Research and Training Vessel has been drafted, and a Request has been made to Japan for grant-aid in connection with Plan implementation.

The original Request contents along with subsequent changes in Plan conditions, as confirmed through discussions with SEAFDEC during our field survey, are shown in the following table:

Table 1　Original Request Contents and Changed Conditions

Item	Original Request Contents	Confirmed/Changed Items
No. of vessel	Fisheries Research and Training Vessel 1 No.	As per the Request
Classification	NK	As per the Request
Rules to apply	Torremolinos Convention 1993 and Asian Regional Guidelines 1997	Application of the SOLAS Convention, based on requirements of the Thai Harbour Department
Navigation area	International（ASEAN）	International: ASEAN EEZ waters
Gross tonnage	200 GT	As per the Request
Main engine	751kW	736kW
Propeller	Kort nozzle propeller	Ordinary controllable pitch propeller
Service Speed	11.8 knots	12.0 knots
Electric generator	Main engine generator 200kVA x 1 Diesel generator 150kVA x 1	Diesel generator 120kVA x 2
Capacity	Fish Hold 20m^3, FOT 55m^3, FWT 13 m^3	As per the Request
Water maker	3m^3/day	5m^3/day
Complement	Total onboard 37 persons （Crew 15, Instructor/scientist 4, Trainee 18）	As per the Request
Living and toilet facilities		Consideration of the boarding of female researchers and trainees
Fire fighting equipment		Portable engine-driven emergency fire pump
Lifesaving equipment	Work boat	Rescue boat in compliance with IMO rule
Fish preservation equipment	-30℃ Freezing room	-30℃ Freezing room and ice making system
Fishing Method	Trawl (Bottom & Pelagic), Longline (Bottom & Surface), Deep sea pot, Squid jigging, Drift gillnet	As per the Request
Fishing electronic equipment	Radio buoy Color Fish finder	GPS Buoy, Underwater TV, Color Fish finder and Fish finder (Paper)
Fishing gears	Trawl net & gears (Bottom & Pelagic), Lines & gears (Bottom & Surface), Deep sea pot, Squid jigging machines, Gillnet & gears	As per the Request
Research facility	CTD, DO･pH Meters, Water samplers, Scientific echo sounder, Doppler Current observation unit, NOAA APT, CTD winch, Oceanographic winch, etc.	**Add**： XCTD, Turbid meter, Reflectance Radiometer, Bottom samplers (2 types), Ship Data Server, Auto Analyzer, Fluorometer, Seabed mapping sonar **Delete**： Spectro-photometer