ABSTRACT

EDDY IHUT SIAHAAN. Ecoport Development in order to Integrated Coastal Management (Case Study Tanjung Priok Port). Under supervision of TRIDOYO KUSUMASTANTO, ACHMAD FAHRUDIN, SETIA HADI and ARIO DAMAR.

Research was done in Tanjung Priok Port, in buffer zone surrounding the port, and Jabodetabek region as port’s main hinterland. Purposes of this research include (1) to identify environmental quality of Tanjung Priok port (2) to analyze long term spatial planning for port’s development, (3) to formulate Tanjung Priok Port development plan based on spatial planning and integrate into Jakarta Bay and Coastal Area Spatial Planning 2030 (4) to develop port’s spatial zoning based Ecoport Standard. Research has found phenomenon in environmental quality based on MENLH standard; those include decreasing of water quality which is 42% under the threshold quality standard, and air quality which is 90% under the threshold quality standard, particularly by rivers mouth and intersection by port’s gates. Based on GIS approach, the current 33% space utilization is appropriate with port Masterplan and 68% inappropriate due to conflict with Port Masterplan. Populations surrounding port area earn their living with low income and work in informal sector. Residences are overcrowded, slums-like, and prone to flooding and fire; the socially vulnerable are among general population. Port’s institutional management has established new regulation, which is separation between regulator (Port Authority) and terminal operator (PT (P) Pelindo II) without full involvement from local government. Based on the analysis, the ecoport index of 1.74 show that the existing condition of Tanjung Priok Port including its buffering zone does not fulfill the requirement of an ecoport standard. In order to resolve ports problems and conform to an international ecoport. Port of Tanjung Priok should be planned and developed by expanding port’s current boundary and size from 605 ha (2011) to 2810 ha (2030), which include the allocation of port’s main and supporting functions, logistic areas, docking, infrastructure, green belt and public facilities. Tanjung Priok ecoport development should be integrated with Jakarta Coastal Management and Spatial Planning 2030.

Keywords: Port of Tanjung Priok, environmental quality, spatial planning, integrated coastal management, ecoport.