SAND MINING AND COASTAL ZONE DEGRADATION IN VADAMARADCHIÆAST, JAFFNA, SRI LANKA-POST WAR DEVELOPMENT PERSPECTIVE.

Pratheeparajah N1 and Rajendram K2

Post war development activities have been taking place in many sectors in the Jaffna Construction of houses, roads, schools, government departments and other buildu uses are rapidly changing after war. One of the important building materials for construction sand. Recently due to post-war development and tsunami reconstruction works hugely excavated in the coastal zone of Sri Lanka. According to coastal conservation 1981, section 57 coastal illegal sand mining is considered as a serious illegal activity, illegal as well as legal sand mining activities have been taking place without any sustal environmental conservation plan. The Vadamadchi East region naturally comprise bars and dunes. These natural resources have been deteriorating rapidly in the coastal of Vadamaradchi East.

The objectives of this paper is i) to identify the sand mining locations, and assess its excapanatity, ii) to study the associated coastal environmental problems in the study area. Produced were obtained from direct observation and interviews had with sand mining we and residents those who closely living in those areas (80 samples were collected). Secondata were collected from various sources, such as office of the Divisional Secretaries, Discondate and Department of Geological survey and Mines Bureau, Jaffna.

There are seven major sand dunes in Vadamaradchi East. The estimated total area of deposits is about 27.9 Km² and its quantity is about 523282 meter cube (m³) Out off seven sand dunes four were removed in Manalkadu and Kudaththanai G.N. divisions post war reconstruction work. Total extent of these removed quantities of sand is 1176 These sand mining activities are continuously as well as rapidly occurring in Manatkad 418) Kudaththanai (J/419), Kudaththanai Karaiyoor (J/420), Potpathy (J/421) and An (J/422) G.N. divisions. It is observed in some places in the study area sand were remained below the sea level and digs were formed by human adjutant to sea (The Bay of Bengarus seasonally salt water stagnated in these digs. Serious environmental degradations were in these areas. In fact morphological changes of seashore, coastal erosion, salt water introduced in the sea in the sea intrusion causand increasing salinity, degradation of vegetation and vulnerable to sea intrusion causal climate change and rising sea levels are the some of serious environmental issues.

Keywords: Sand mining, Environment, Degradation, Coastal zone, Sand dune

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¹ Department of Geography, Eastern University, Sri Lanka E-mail: npiratheeparajah@gmail.co² Department of Geography, University of Jaffna, Sri Lanka E-mail: rajan_srilanka@yahoo.co³