## **Reclamation/Rehabilitation of the Former Sea Tin Mine of PT TIMAH TBK**

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## **Key words:** Coastal Zone Management; Hydrography; Mine surveying; reclamation/rehabilitation, former sea tin mine, environment, ecosystem

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## SUMMARY

Tin mining activities both on land and at sea, beside of generating financial benefits from the economic value of tin ore, have also some negative impacts on the environment around ex-mining areas. The reclamation/rehabilitation of ex-mining on land is relatively easier to see in terms of its condition if compared to the reclamation/rehabilitation at the bottom of the sea waters. The impact of opening the tin mining at the bottom of the sea waters apart from leaving land in the form of stretches of land, sand dunes and pits, is also very likely to give some affects of condition of the surrounding ecosystem.

The aim of this research is provide guidance to parties (local government & private sector) regarding concrete steps for Marine Reclamation/Rehabilitation at Underwater Tin post-mining sites and the methods used: the first, the application of surveying and mapping technology to identify location of former tin mining areas at sea or offshore, the second is to implement The coral transplantation and fish shelter methods within the identified areas

The result of coral transplantation and fish shelters have been implemented quite successfully in all sea water of Bangka Belitung except in the sea waters of Pulau Permis, South Bangka Regency, where there are still many tin mining activities at sea by the community (Floating TI) and where the water conditions are more turbidities. The Indicators of success, seen from the index value of the mainstay fish species diversity (H') 1.412 - 3.232 from the standard expected value H' > 1.5. Where, the highest H' value was found in the Rebo Melantut, Rebo Sungailiat with the number of fish species found as many as 54 species.

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