METODE PELAKSANAAN *GEOTEXTILE TUBES (GEOTUBE)* SEBAGAI SABUK PANTAI DI PANTAI LIMBANGAN

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INTISARI

Kondisi Pantai Limbangan yang merupakan jalur pipa Pertamina EP Asset 3 Field Jatibarang perlu dilakukan penanganan. Hal ini perlu dilakukan karena abrasi pantai yang menghilangkan pesisir pantai dan membahayakan pipa pertamina. Penanganan yang dilakukan untuk mengatasi abrasi yang terjadi di Pantai Limbangan dengan pemasangan *geotextile tubes* sebagai sabuk pantai.

Metode yang digunakan dalam penyusunan laporan ini adalah metode observasi. Metode observasi merupakan kegiatan pengamatan langsung suatu pekerjaan yang sedang dilakukan. Pengamatan ini dilakukan untuk memastikan bahwa pekerjaan sudah sesuai dengan *detail engineering design.*

Berdasarkan keadaan pantai maka akan dipasang dua *geotextile tubes*. *Geotextile tubes Low-Crested* dipasang didaratan untuk melindungi pipa pertamina, dan *geotextile tubes High-Crested* dipasang dilaut untuk pengembalian pesisir pantai. Metode pelaksanaan *geotextile tubes Low-Crested* meliputi persiapan, pembuatan marking area, penghamparan *appendix*, pengisian *appendix*, penghamparan *geotextile bonarock*, pengisian *geotextile bonarock*. Metode pelaksanaan *geotextile tubes High-Crested* meliputi persiapan, pembuatan *marking area*, penghamparan batu, penghamparan gedeg bambu, penghamparan *geotextile* 150 gr/m^2, penghamparan sirtu, pemadatan, penghamparan *geotextile* PET 600 gr/m^2, penghamparan *geotextile bonarock*, pengisian *geotextile bonarock*, penghamparan matras, pengecoran *concrete mattres*. Pada pelaksanaan di lapangan terdapat beberapa masalah, diantaranya Penurunan *Geotextile Tubes High-Crested* yang dapat diatasi dengan penambahan *sand bag* diatas *geotextile tubes High-Crested* dan terbaliknya *Geotextile Tubes High-Crested* yang dapat diatasi dengan memindahkan pasir yang berada di *geotextile tubes* yang terbalik ke *geotextile tubes* lainnya untuk mempermudah pengembalian *geotextile tubes* pada marking area yang sudah ditentukan.

Kata kunci : abrasi, *geotextile tubes*, pelindung, pengembalian, metode pelaksanaan.

IMPLEMENTATION METHOD OF GEOTEXTILE TUBES (GEOTUBE) AT LIMBANGAN BEACH

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ABSTRACT

As a part of Pertamina EP Asset 3 Field Jatibarang pipeline, condition of Limbangan Beach needs to be handled. This needs to be done because of the beach erosion eliminates coastal areas and endangers pertamina pipes. To reduces the erosion that happens in Limbangan Beach, installing geotxtile tubes as a beach belt is a must to be done.

To analize implementation method of Geotextile Tube (Geotube) as A Beach Belt is done by observing directly at its progress. This observation must be done to make sure that the progress is suitable with detail engineering design.

Based on the Limbangan Beach conditions, it will be installed two geotextile tubes. First, Low-Crested geotextile tubes are installed on land to protect Pertamina pipes, and then High-Crested geotextile tubes that are installed at sea to maintain Limbangan coastal. Implementation method of Low-Crested geotextile tubes include preparation, marking area, appendix spreading, appendix filling, geotextile bonarock spreading, geotextile bonarock filling. Implementation Methods of High-Crested geotextile tubes include preparation, marking area making, rock spreading, gedeg bamboo spreading, geotextile 150 gr/m^2 spreading, sirtu spreading, solidification, geotextile PET 600 gr/m^2 spreading, geotextile bonarock spreading, geotextile bonarock filling, mattres spreading, concrete mattres foundry. There are some problems during implementation in the field, such as the decreasing of High-Crested Geotextile Tubes which can be handled by adding sand bag above geotextile tubes High-Crested and reversed High-Crested Geotextile Tubes that can be handled by moving the sand in geotextile tubes that reversed to others geotextile tubes to make easier the return of geotextile tubes on the designated marking area.

Keywords: abrasion, geotextile tubes, protector, return, method of implementation.