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KAWASAKI STEEL GIHO
Vol.9 (1977) No.1.2

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Planning and Designing of Civil Engineering Works for the Philippine Sinter Plant

ë È ,#è(Hisao Shimizu) ,1Â \$ Â(Hiroaki Furuya) , (Tdyokazu Sakaki)

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!•) µ • />*5"%¼ \© å ± î b « ° µ j Ö î » > | g 25 S DWT (í+ê+ç#Ý b © î Â î « ^

フィリピン焼結工場

フィリピン焼結工場の土木設計

Planning and Designing of Civil Engineering Works
for the Philippine Sinter Plant

清水久男*

Hisao Shimizu

古谷博明**

Hiroaki Furuya

榎 豊和**

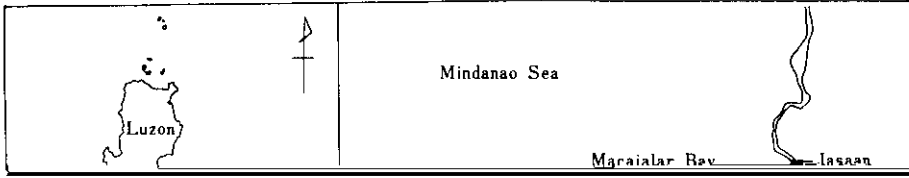
Toyokazu Sakaki

Synopsis:

For its sinter plant construction project in the Philippines, Kawasaki Steel Corporation set out a field survey in the late 1973, with the construction work started a year later.

The plant located in Mindanao Island consists of the sinter plant proper, storage yards for iron ores and sinter

products, and the sea berth, one of the featuring structures, capable of accommodating 250 000 DWT class ship. For the construction of the sea berth, an elaborate preliminary investigation was required.

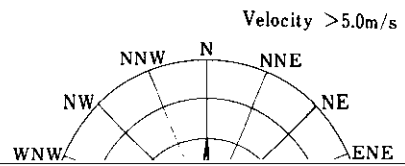


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れる。

(6) 対岸のボホール島に良質の石灰石が豊富に埋蔵されている。

(7) 良質の工業用水が手近に豊富に得られる。



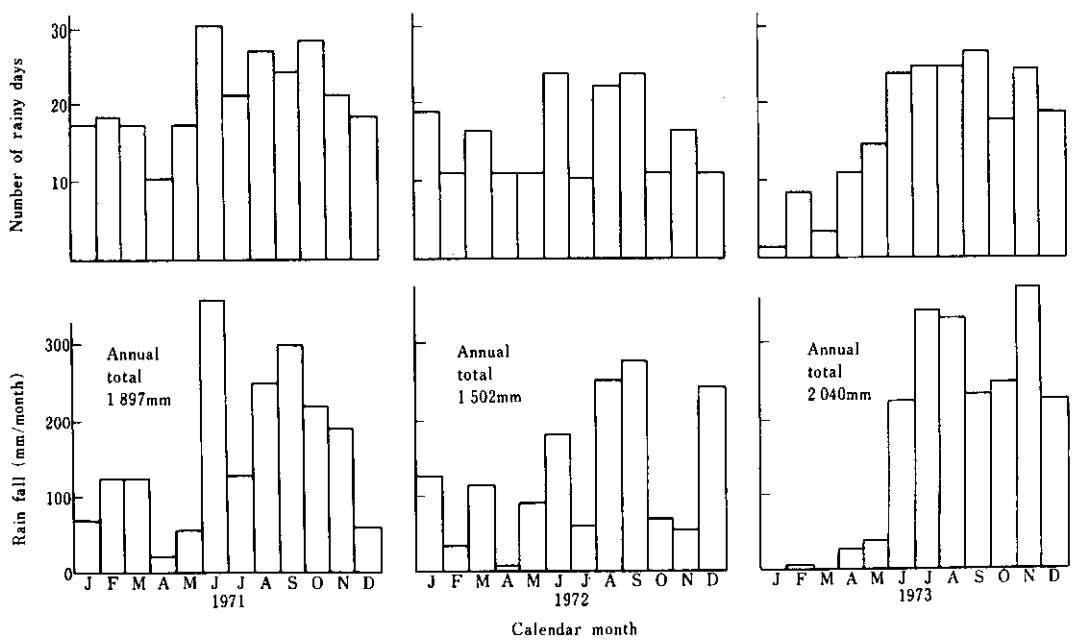


Fig. 6 Monthly rainfall and number of rainy days (1971~1973)

1.4の範囲で与えられている²⁾。

2・3 地盤構成と土質

2・3・1 陸上の地形と地質^{3,4)}

起源になっており、少なくとも海岸に近い段丘の各層にみられる礫岩は火山岩、片岩、蛇紋岩の円礫である。

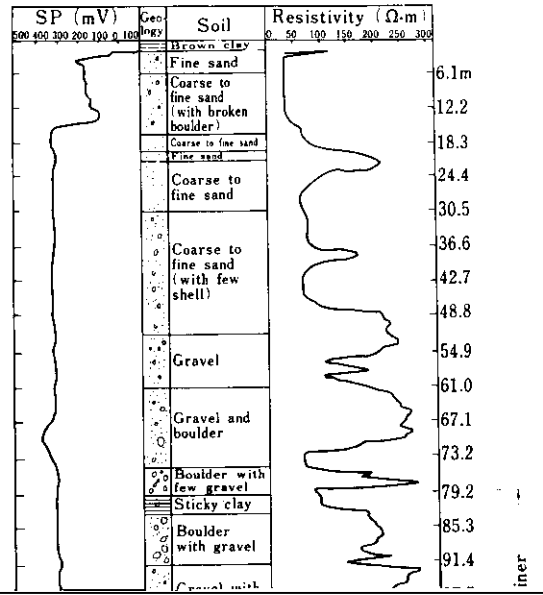
本地域は地盤隆起が原因と思われる4段の段丘(当然海水準変動の影響を受けているであろう)が

1.000 2.000m 3.000m 4.000m 5.000m 6.000m 7.000m 8.000m 9.000m 10.000m 11.000m 12.000m 13.000m 14.000m 15.000m 16.000m 17.000m 18.000m 19.000m 20.000m 21.000m 22.000m 23.000m 24.000m 25.000m 26.000m 27.000m 28.000m 29.000m 30.000m 31.000m 32.000m 33.000m 34.000m 35.000m 36.000m 37.000m 38.000m 39.000m 40.000m 41.000m 42.000m 43.000m 44.000m 45.000m 46.000m 47.000m 48.000m 49.000m 50.000m 51.000m 52.000m 53.000m 54.000m 55.000m 56.000m 57.000m 58.000m 59.000m 60.000m 61.000m 62.000m 63.000m 64.000m 65.000m 66.000m 67.000m 68.000m 69.000m 70.000m 71.000m 72.000m 73.000m 74.000m 75.000m 76.000m 77.000m 78.000m 79.000m 80.000m 81.000m 82.000m 83.000m 84.000m 85.000m 86.000m 87.000m 88.000m 89.000m 90.000m 91.000m 92.000m 93.000m 94.000m 95.000m 96.000m 97.000m 98.000m 99.000m 100.000m

EL. 1-13 EL. 6.64m

1-5 EL. +8.36m

Elevation	Soil	A-value			Soil classification
		10	30	50	
-17.65					
-20.65	Sea bed				
-24.95					Sand and gravel
-32.50					Fine to coarse sand
-37.85					Sand and gravel
-39.35					Fine to coarse sand
-44.40					Silt
-46.05					Sand and gravel
-48.60					Clay
					Coarse sand
					Sand and gravel
-59.80					Clay
-62.65					Clay



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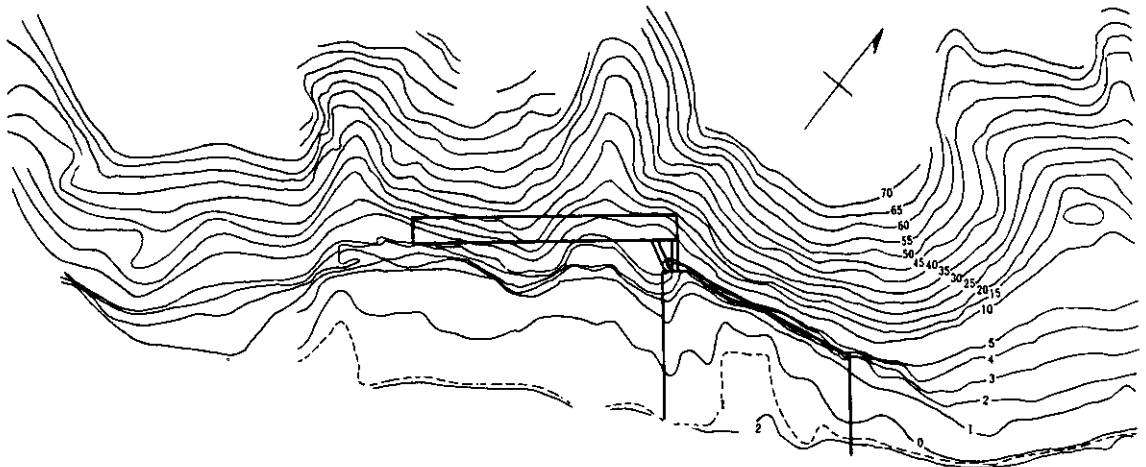
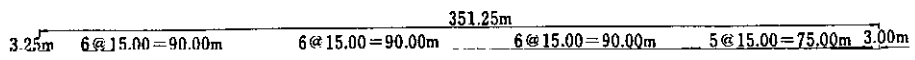
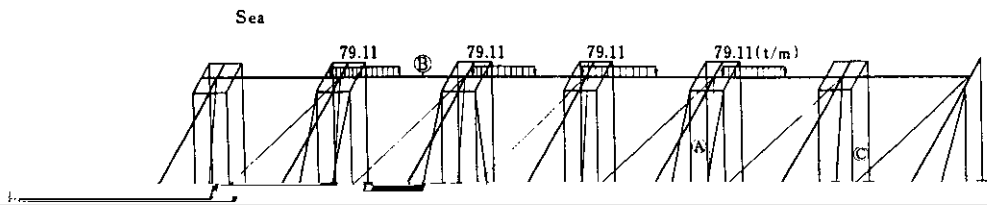


Fig. 16 Topographic map and location of port facilities

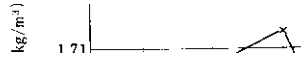




15,000 25,000 2.0×10.0 る。

本からの輸入を原則とした。主要資材のうち現地

資材の調査結果を以下に示す。



CDCP (現地業者)、東洋建設(株)各社の関係諸氏 ない、厚くお礼を申しあげる所がいである。

の協力が大きな推進力であったことはいうまでも

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{UNESCO}

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