

HRD 242/2011

October 14, 2011

Attention: Hemaraj Stakeholders  
Subject: Hemaraj's Industrial Estates Have No Flooding.

Following the flood situation in many areas in Thailand, Hemaraj has been monitoring the situation closely. Despite the unfortunate inundations in many provinces, we would like to report that Hemaraj's 6 Industrial Estates are not affected by flooding at all for the following reasons:

**1. Hemaraj Chonburi Industrial Estate (HCIE), Eastern Seaboard Industrial Estate (ESIE), Hemaraj Eastern Seaboard Industrial Estate (HESIE), and Hemaraj Rayong Industrial Land (HRIL)**

*a. Floodwater from the North and Central Plains Regions*

Chonburi and Rayong are not in the downstream area of the water coming from the North and Central Plains. The water converted to Prachinburi and Chachoengsao provinces go to Bangpakong Basin and Samutprakarn province, then to the sea. Water from Chachengsao will not get to our industrial estates due to the distance as well as remarkable differences in land height.

Elevation meters above Mean Sea Level (MSL)	
Prachinburi	+19
Chachoengsao	+21
Samutprakarn	+4

Source: Google Earth

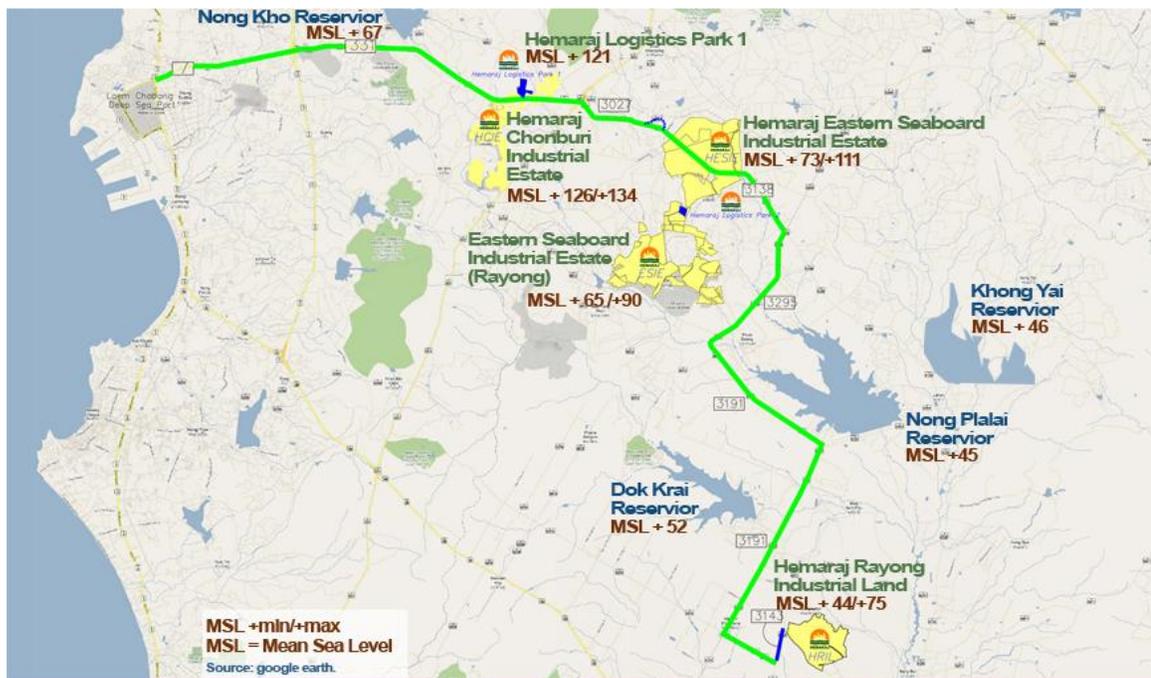
Mean Sea Level	Min	Max
Hemaraj Chonburi Industrial Estate (HCIE)	+126	+134
Eastern Seaboard Industrial Estate (ESIE)	+65	+90
Hemaraj Eastern Seaboard Industrial Estate (HESIE)	+73	+111
Hemaraj Rayong Industrial Land (HRIL)	+44	+75

*b. High sea tide and Water from Nong Plalai, Dok Krai and Klongyai Reservoirs*

Hemaraj Chonburi Industrial Estate, Eastern Seaboard Industrial Estate, and Hemaraj Eastern Seaboard Industrial Estate are located on high ground areas, 65-134 meters above sea level so there is no impact from high sea tide, and also 13-74 meter higher than the elevations of Nong Plalai, Dok Krai, and Klongyai Reservoirs.

In the case of Hemaraj Rayong Industrial Land, it is 44-75 meters higher than sea level so there is no impact from high sea tide.

Nongplalai Reservoir at +45 MSL, Dokkrai Reservoir at +52 MSL, Klongyai Reservoir at +46 MSL, Hemaraj Rayong Industrial Land is at +44 to +75 MSL. In case of rainwater spills over from the reservoirs, natural intercept drains will take water into Klong Namyen then Rayong River before reaching the sea. These have not affected Hemaraj Rayong Industrial Land being 5 kilometers away from Klong Namyen and being 10 kilometers away from Rayong River.



*c. Heavy rainfall*

Areas inside the industrial estates are not be affected as our industrial estate design utilities use large u-ditches or storm pipes and the slope nature of the land helps to drain the storm water very fast. When there is over 150 mm/hour downpour, some water may accumulate temporarily during 15-240 minutes at certain points in our industrial estates. Hemaraj also takes precaution steps in preparing measures in an attempt to cope with unprecedented rainfall with emergency teams standing by 24x7.

**2. Hemaraj Eastern Industrial Estate (HEIE)**

For the situation at Hemaraj Eastern Industrial Estate (HEIE), it has not been affected for the reasons as follow;

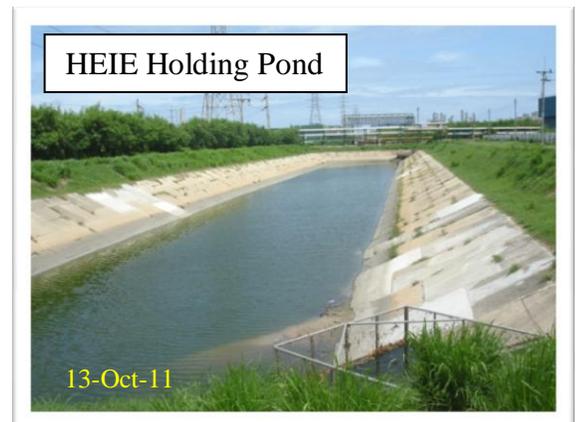
a. *Flooding from rainwater spill over from the reservoir(s)*

HEIE is located more than 20 kilometers from Rayong River. In the case that Nong Pla Lai, Dok Krai or Klong Yai reservoirs drain out a significant amount of spilled water, the water will be intercepted into Rayong river and then to the sea directly.

In the same case at Pra Sae Reservoir, the water will be intercepted to Pra Sae River and to the sea as well.

b. *Heavy rainfall*

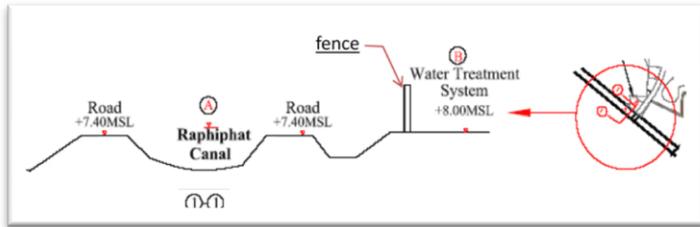
In the case of heavy rainfall, Areas are not affected as our large u-ditches and the slope nature of the land will help drain the water very fast. When there is over 150 mm/hour downpour, some water may accumulate temporarily during 15-240 minutes at a certain points in our estate. Hemaraj takes caution in preparing measures in an attempt to cope with any unprecedented rainfall with emergency teams standing by 24x7.



### 3. Hemaraj Saraburi Industrial Land (HSIL)

Hemaraj Saraburi Industrial Land (HSIL) is not located in the flood plain of Chao Phraya River. It has 3 water access points which are Nong Roo, Preaw, and Raphiphat canals. HSIL is +4 to +8 meters above the mean sea level and its dikes which surround the industrial estate are +2 to +4 meters above the water level of the 3 canals. Areas inside the industrial estates are not affected as our industrial estate design utilities use large u-ditches and the slope nature of the land helps to drain the storm water.

Hemaraj takes caution in preparing measures in an attempt to cope with any unprecedented rainfall with emergency teams standing by 24x7.



Despite the unlikelihood of any incidents, Hemaraj will closely monitor the flood situation north of Bangkok and will further report periodically, if there is any change in the situation.

Sincerely,

David R. Nardone  
President & CEO