



# ANNOUNCEMENTS

20 February 2003

## **NATSTEEL WILL BE RECYCLING ITS STEEL MAKING BY-PRODUCT, LADLE FURNACE SLAG, INTO A VALUE ADDED PRODUCT**

### **NATSTEEL WILL BE RECYCLING ITS STEEL MAKING BY-PRODUCT, LADLE FURNACE SLAG, INTO A VALUE ADDED PRODUCT**

NatSteel will recycle its steel making by-product into a value added product as an asphalt filler, upon the success of the site test which will be rolled out tomorrow. The site test of the modified asphalt mix marks the end of a research program carried out jointly by NatSteel and the Environmental Engineering Research Center (EERC) of Nanyang Technological University (NTU) which started four years ago.

Ladle furnace slag (LFS), a by-product of the secondary refining of molten steel, is currently disposed of at the Pulau Semakau dumping site. NatSteel generates about 24,000 ton of LFS a year. The recycling effort will reduce the need for a landfill area equivalent to three 1.7 meter high football fields every year.

NatSteel's effort to recycle LFS is not only in line with the government's 3R Policy (ie. Reduce, Reuse and Recycle) but it also helps to conserve the natural resource. By recycling LFS into an asphalt filler, substantial amount of granite which Singapore is currently importing, can be saved a year.

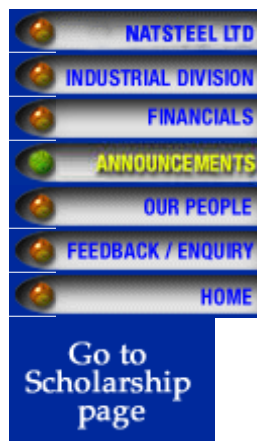
With the chemical properties of LFS, the asphalt shows higher stability and enhanced anti-stripping properties that will help to increase the service life of the road.

NatSteel, EERC of NTU, Samwoh, the Land Transport Authority (LTA) and the National Environmental Agency (NEA) have been working closely for the past months to make this site test possible. LTA has selected a site along Jurong East Central for the trial which is partially funded by NEA under the Innovative Environmental Scheme (IES).

Environmental management is of utmost importance in NatSteel. Its past environmental efforts include energy conservation by recovering heat from flue gas to preheat steel scrap before melting as well as steel slag recycling. In 1994, NatSteel, in collaboration with NTU and Public Works Department, engineered the steel slag, which is a by-product from electric arc furnace, into road paving material. This recycling effort has resulted in conservation of natural occurring rocks, landfill area and minimization of road repair and maintenance work.

#### About Environmental Engineering Research Centre

*The Environmental Engineering Research Centre (EERC) is a multi-disciplinary research and development centre established jointly by the Nanyang Technological University (NTU) and the Ministry of the Environment (ENV). It aims to nurture, promote and launch innovative environmental studies among academic and practicing environmental professionals and provide a leading platform for environmental training*



*in Singapore. The Centre spearheads environmental research programmes within NTU and has available the resources of academic staff from various engineering schools at NTU as well as staff from the National Institute of Education (NIE). Research facilities at NTU comprising laboratories with highly specialized equipment for environmental studies are available to research staff of the Centre.*

*About NatSteel Group (SGX: NatSteel, Bloomberg: NATS SP Equity and Reuters: NATS.SI)*

*NatSteel is a leading industrial group in Asia Pacific. The Group has two main businesses : Steel and Industrial (comprising Construction Products, Chemicals and Engineering).*

*In the Steel business, the group has a regional network of mini-mills in Singapore, Malaysia, China, the Philippines and Vietnam. Singapore serves as the hub providing R&D, engineering, logistics, sourcing and other support services.*

*In its Industrial business, the group is one of the key players in the cement, concrete, precast concrete, premix mortar and related building products in Singapore. Other activities in this division include specialty and environmental chemicals, engineering products and services.*

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