Borers for Metro Rail tunnels arrive

They will be deployed to build 24-km underground section

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CHENNAI: Two Tunnel Boring Machines (TBMs) that would be used to build the underground section of Metro Rail have arrived from China. The process of transporting the machines, which were shipped to the Chennai port as five to six separate segments, to the launch sites has commenced.

In due course, nine more machines would arrive in the city and all 11 TBMs would be deployed simultaneously to build the 24-km underground section of the Metro Rail network over the next three years.

To minimise the impact on traffic, the components are being transported at night. Shenov Nagar Park, which is one of the five TBM launch sites, received its first consignment on Friday.

Chennai Metro Rail Limited Managing Director K. Rajaraman said work on building the launch shafts (through which the TBM would be eased to a depth of

nine metre beneath the ground) is on in many locations. "Apart from Shenoy Nagar and Washermenpet, such shafts would be built in May Day Park in Chintadripet. Nehru Park in Poonamallee High Road and Saidapet. The component assembling and operational trial of the TBMs would go on simultaneously," he said.

Full-fledged underground tunnelling is expected to begin around mid-February, he added.

30-storey tall

Each TBM weighs around 140 tonnes. The entire assembly stretches to a length of nearly 90 metre. When placed vertically, it would be as tall as a 30-storey building.

TBMs are specially designed machinery used to build tunnels with a circular cross-section. They are deployed especially in urban settings where ground excavations can lead to largescale disruptions.

Each TBM has one or two



IN PLACE: The Metro Rail site in Shenoy Nagar Park, which got the first consignment of tunnel boring machine components on Friday. - PHOTO: V.GANESAN

cylinders large metal (shields) mounted on a trailing support mechanism. The front of the shield has a rotating cutting wheel, which

will do the tunnelling.

project has two corridors -Washermenpet to Airport and Chennai Central to and on Corridor-II. between

St. Thomas Mount. A portion The Chennai Metro Rail of the Metro alignment on Corridor-I, between Washermenpet - Saidapet ramp,

Central and Thirumangalam ramp, runs as underground tunnels. Of the 36 upcoming Metro stations, 20 would be underground.