

Press Note

New Dimensions in the Track Work for Hyderabad Metro Rail Project

In the design of Track Work for Hyderabad Metro Rail Project the following vital features are being considered which are seldom used in other Indian Metros:

1. Check Rails.
2. Rail inclination 1 in 40.
3. Track Master.
4. Simulation Study based Track design.

1. Check Rails:

Check rails also called 'Restraining Rails'. These have a significant role in the Track on sharp curves. Check Rails minimise the wear and tear of the main rail and prevents the train from derailing while negotiating sharp curves.

Hyderabad Metro Rail will be provided with Check Rails for all the curves where radius is less than 190 m. These check rails are procured from M/s. TATA Steel, France and weigh about 33 kg/m. Overall about 750 MT of Check Rails are required for this project.

Check Rails have been provided in Metros for the first time in Mumbai for Line 1 and is now being used in Hyderabad Metro Rail Project.



2. Rail Inclination of 1 in 40:

This is the first time in the country that Hyderabad Metro Rail Project has decided to use 1:40 rail inclination unlike Indian Railways and other Metros.

This was finalised after lot of deliberations with the experts of Rolling Stock and Track and with the S1002 Wheel profile of Rolling Stock that shall be used in Hyderabad Metro Rail Project. It was concluded for rail inclination of 1 in 40 because of the following advantages:

- I. Good contact between Rail and Wheel on sharp curves.
- II. Reduces wear and tear of Rail and Wheel.
- III. It gives better ride comfort.
- IV. It gives more stability, steer ability to the vehicle.

3. Use of Track Master:

Hyderabad Metro Rail Project is using 'Track Master' - A unique instrument for checking the parameters of Track and to enhance the quality of track installation. This has been procured from M/s. Trimble USA. This instrument is being used in India for the second time after Chennai; L&T is the first to introduce this technology in India, both in Chennai & Hyderabad.

Following are the broad benefits of using this system:

- I. The parameters can be checked at every inch of the Track before it is fixed, unlike the conventional method of manual checking which is done at about 4 mts intervals. This augments the quality of Track and minimises the corrections that would be required otherwise.
- II. This is a computer based system and shall work on the design details that are fed into the system, thereby minimising human errors.
- III. Track adjustments, Track documentation and Track acceptance can be done with one system.
- IV. Highly accurate verification of Track geometry.
- V. Online design and actual value comparison.
- VI. Storage of all relevant measurement data is possible.



4. Simulation Study based Track design:

This type of designing the Track is being adopted for the first time in the Country. In this process, prior to the Track design, the probable speed of train in a particular stretch is determined by carrying out a simulation study. Based on this data the Track is accordingly designed only for that particular speed in that particular stretch. This avoids designing the Track for much higher speeds than required.

This process has the following advantages:

- I.** Better ride comfort to the passengers.
- II.** Reduces the Rail and Wheel wear.
- III.** Reduces loading on the Viaduct and
- IV.** Increases the productivity in Track installation.

LTMRHL Initiatives:

1. Impact Assessment Study:

The Hyderabad Metro Rail Project, being a true Public project needs inputs and dialogue on a continuous basis with all genres of the society. Research cum knowledge sharing exercise has been started through an agency which will cover 300 randomly chosen residents across the society for every km in all the corridors. This will be done in 3 km catchment area on all the corridors.

2. Metro Chronicles thru the Lenz:

Hyderabad has a rich history and history has taught that change is the only thing which is constant. To chronicle the change which has taken through the 400 years of history we are calling the denizens of Hyderabad to come forward and share what they have taken through their lens which is for posterity. This will later be taken to the Metro Museum.

This is being done in association with Muse the Art Gallery. The denizens will send the photographs of all the changes which they see, have seen and will see upto the commissioning of the complete project. This will be on display at the Muse Art Gallery and the best selected photographs will be awarded. This activity will be taking place on a quarterly basis till the commissioning of the Hyderabad Metro Rail Project.

3. HMR Online Merchandise:

A memento or a souvenir is usually bought as a keepsake or a reminder and also to infuse a sense of belonging. The HMR branded goods will now be available through an online shopping portal www.realshoppee.com, for the denizens to be the proud owners and share their feelings with their near and dear ones across the globe, now, later and in future. We will keep on adding newer products as and when required based on the inputs from the buyers. This is another effort of involving the Hyderabadis into our motto of **MY CITY, MY METRO, MY PRIDE**.

There will be an online sale of HMR Branded goods where the Hyderabadis will be able to purchase goods. This will not only brand Hyderabad Metro Rail but also instil a sense of belonging with the Hyderabad Metro Rail. This is being done by Real Shoppee.

4. The Mock Up:

Rolling Stock is going to be displayed for the public viewing at a central location of the city. This exhibition will be in the month of October. This display will be for a period of one month. Thereafter it will be shifted to Uppal depot where the residents of Greater Hyderabad will be able to view it and finally it will find its place in the Metro Museum.

5. Brand Ambassadors Campaign:

Dates:

- **10th August 2013** – College Category Auditions
- **24th & 25th August 2013** – Semi-finals for Schools, Colleges, Executives, Housewives, Senior Citizens & Entrepreneurs Categories
- **7th September 2013** – Final selection of Brand Ambassadors
- **October/November 2013** – Felicitation Ceremony for the Brand Ambassadors

HYDERABAD

19th July 2013