

RAILWAY STATION REDEVELOPMENT IN INDIA FOR WORLD-CLASS AMENITIES AND AMBIENCE FOR ALL



SIGNIFICANT BENEFITS OF FRP COMPOSITES



Corrosion
resistant



Lightweight



Long
maintenance
free life



Easy to
install



Superior and
tailored manufacturing
properties



Cost
effective

TATA STEEL LIMITED

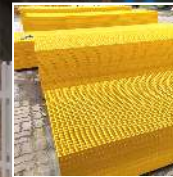
New Materials Business

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TATA STEEL
#WeAlsoMakeTomorrow



STATIONED TO
STREAMLINE
RAILWAY TRAVEL

June '21



**NEW MATERIALS
BUSINESS**
An Initiative of Tata Steel

ON THE FAST TRACK TO TOMORROW

The recent Union budget of India this year placed a huge focus on investment in infrastructure to improve the economy. In order to adapt to the ever-evolving market dynamics, Indian Railways, the 4th largest network in the world is looking at redevelopment of railway stations with the primary objectives of providing world class passenger amenities, making them hubs of economic development and re-establishing them as the nerve centres of their cities. This is envisaged to be achieved through leveraging the commercial development opportunity of land and air space surrounding the station and to create seamless travel and facilities experience to passengers with the aim to future-proof these important travel nodes.

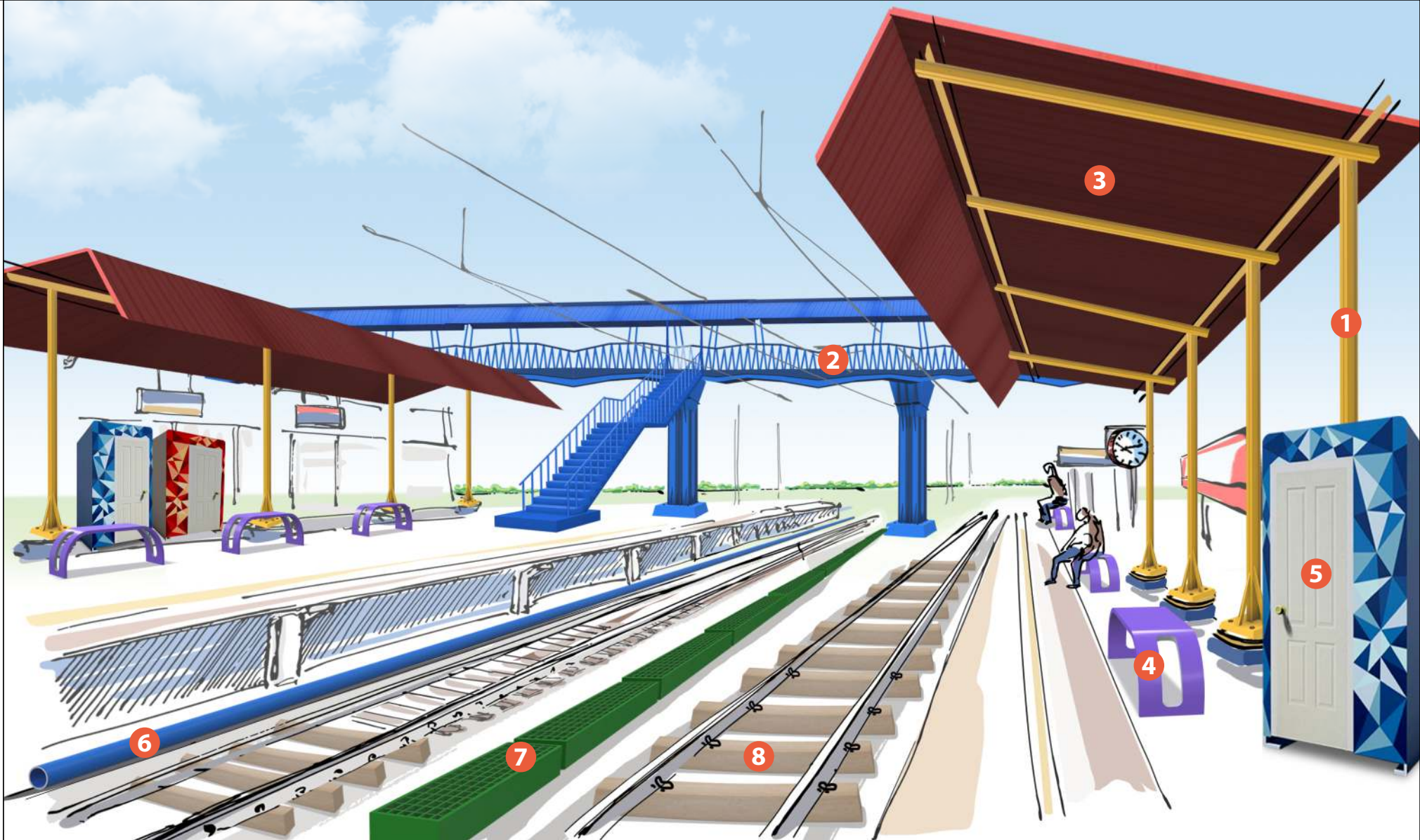
The government has been actively encouraging the participation of the private sector in this grand initiative, as it is an opportunity to reshape the urban landscape of the country.

This is where Tata Steel's New Materials Business comes to the fore with its dynamic new materials that can swiftly and effectively transform the legendary Indian Railway Station into iconic structures for the commuters of tomorrow.

NEW MATERIAL INTERVENTIONS

| Railway Platforms | Railway Tracks |
|---|----------------------------------|
| Facades and Circulating Areas | Sleepers, Gratings and Cladding |
| Disabled Access and Handrails | Coach-watering Pipelines |
| Trolleys | OHE Masts and Foot Over Bridges |
| Cloak Rooms(s) and Lockers | Stalls, Booths, Kiosks and Seats |
| Toilets and Bathrooms | Signages |
| Waiting Rooms | |
| Retiring Rooms | |
| Signages | |
| Booking Office | |
| Enquiry Counters | |
| Kiosks | |
| Executive Lounges | |
| Refreshments Rooms | |
| Skywalks, Bridges and Foot Over Bridges | |
| Car Parking Areas | |
| Gardens and Fountains | |
| Seats, Benches and Gazebos | |
| Wall Claddings and Murals | |
| Sculptures | |
| Illuminations and Light Poles | |

| Outside Railway Station/Circulating Area |
|--|
| Designer FRP Street Poles |
| Designer Water Fountains |
| Fences |
| Handrails |
| Benches |
| Signages |
| Gazebos |
| Modular Cabins |
| Murals |
| Wall Claddings |



- | | |
|--|--------------------------------------|
| 1. FRP Masts and Supports | 5. Modular Stalls and FRP Water ATMs |
| 2. Foot Over Bridges and Staircase | 6. FRP Water Pipe Support |
| 3. FRP Roofing Solutions and Wall Cladding | 7. FRP Gratings |
| 4. Platform Seating with FRP Benches | 8. FRP Sleepers for Tracks |