HOME / NEWS / CITIES / BENGALURU

Click here for our in-depth coverage of Lok Sabha and Assembly elections #ElectionsWithTheHindu

Metro a misplaced mobility option to suburbs, try Regional Rapid Transit System, say experts The RRTS system unlike the Metro, caters to commuters travelling relatively longer distances with fewer

stops and at higher speed. It also differs from conventional trains by providing reliable, high-frequency, point-to-point regional travel along a dedicated pathway April 22, 2024 09:00 am | Updated 01:22 pm IST - Bengaluru

RASHEED KAPPAN









yet to get a decent Metro network, but the urge to extend its reach comes at the cost of a very viable alternative: The much-delayed suburban rail system with a clearly established potential for high capacity, high speed and much lower construction cost.

Mysuru Road; Harohalli through Kanakapura Road, Attibele along Hosur Road and to Kunigal Cross, taking the Tumakuru Road route. Your vote matters, what you read matters too

Should the low-capacity, low-speed, hugely expensive Metro rail system be extended to the

far-flung suburbs and the adjacent districts of Bengaluru? Vast swathes of the city's core are

Are the State and the Bangalore Metro Rail Corporation Limited (BMRCL) serious about the

potential 129-km of Phase 4. The plan is to extend the Purple and Green lines to Bidadi via

extension? For the record, a feasibility study has been proposed by Namma Metro for a

Get 25% off on our annual plan! SUBSCRIBE & SAVE Already a subscriber? Log in



speed Regional Rapid Transit System (RRTS) like the one you see between Delhi and Meerut. Metro as an option, I feel, is misplaced," notes Dr. Ashish Verma, Convenor of the

The priority, he says, should be on decongesting the city's core part by completing all the

pending three Metro phases, and the four-corridor suburban network planned and being

Sustainable Transportation Lab at the Indian Institute of Science (IISc).

point-to-point regional travel along a dedicated pathway.

implemented under K-RIDE (Rail Infrastructure Development Company (Karnataka) Limited). Designed for speeds of up to 160kmph, the RRTS is a dedicated, high-speed, high-capacity commuter service linking the regional nodes in the National Capital Region (NCR). Unlike the Metro, it caters to commuters travelling relatively longer distances with fewer stops and

at higher speed. It also differs from conventional trains by providing reliable, high frequency,

elevated stations. RRTS is three times faster than the Metro, taking about one hour to cover 100 kms compared to the Metro's estimated three hours. Can this be an option to connect Bengaluru to its neighbouring towns? To Tumakuru Now, a closer look at the Metro option proposed to Tumakuru. As seasoned suburban rail

analyst and campaigner Rajkumar Dugar points out, once the currently operational Green

Line up to Nagasandra is extended till Tumakuru Railway Station, the entire corridor length

The Delhi-Meerut RRTS (RapidX) project's Priority Corridor commenced its commercial

operations on October 21, 2023. The 17-km section links Sahibabad and Duhai via four

would go up to 86 kms. "Metro is meant for short distances within the city, not for such long distances," says he. The construction cost too would be enormous. "Presently, the elevated Metro costs about ₹300 Crore per kilometer. Underground Metro costs much more. Adding an elevated stretch of 52 km will cost about ₹15,600 Crores – or more, by the time it is commissioned," Rajkumar explains.

Commute time would be another issue. It is estimated that a Metro ride from Majestic to

Tumakuru will take about two hours. "The average speed of a Metro is 34kmph. To cover 70kms, it will take 124 minutes," he says. "However, due to various reasons, we can assume

Longer commute time

that the average speed of the Metro will be higher between Nagasandra and Tumakuru (e.g., with greater inter-station gaps). Even then it will take about 110 minutes. This does not compare well even with present trains." The long-distance routes proposed under Metro Phase 4 run counter to the Comprehensive Mobility Plan (CMP) prepared by the BMRCL in 2020 as mandated for Phase 2A and 2B approvals. The Plan prioritized further densification of Metro within the city, by adding three new lines along Old Airport Road, Old Madras Road and Sarjapur Road.

option, all roads are choked. If they had prioritised Metro or suburban rail there, the Hebbal flyover expansion wouldn't have been required," contends urban rail analyst Sanjeev Dyamannavar. He attributes the planning gaps and shift in priorities to the slow progress in activating the Bengaluru Metropolitan Land Transport Authority (BMLTA).

"Barring the Airport line with limited stops, North Bengaluru is left out from the Metro

network. The Airport line will take another three years. Without a mass public transport

RRTS should be an ideal option to link Bengaluru with its adjoining towns. But the Bengaluru Suburban Rail Project (BSRP), being built by K-RIDE remains a low-hanging fruit, as Rajkumar indicates. The four-corridor project, covering a total distance of 148kms at a total cost of Rs 15,767 crore, is designed to take an estimated 10 lakh people off the roads.

Work is now underway on the Mallige corridor between Baiyappanahalli and Chikka

Banavara and is expected to be completed by the end of 2025. As he elaborates, "Chikka

Banavara is 56 kms from Tumakuru Railway Station. Already the proposal to extend the

economical, safe, comfortable, inclusive, fast and an eco-friendly option. The eight ends of

the four Corridors can be relatively easily, quickly and economically extended to the nearby

Suburban Rail Corridor to Tumakuru is under consideration. Extending the BSRP Corridor is

easier, more economical and can be done expeditiously. The Mallige corridor itself will cost about Rs. 115 crore per kilometer." The message is clear: BSRP is the most practical option for all surrounding towns. "BSRP is

towns."

The 'most practical' option

Rail and regional development In terms of high-speed connectivity, a 2022 IISc study by Dr. Ashish and Saransh Sahu should be contextual here. "IISc was given a campus in Challakere in Chitradurga district.

get there quickly. We did a study based on a hypothetical introduction of a high-speed train between Bengaluru and Challakere," Dr. Ashish recalls. The study clearly indicated that with such a connectivity, IISc's productivity could be

But growth and development has been slow due to connectivity issues. Scientists could not

increased in terms of publications and research. Extending this finding to the entire region, the paper noted: "The short term and long-term impacts of high-speed accessibility and connectivity help policymakers to think wisely about the planned introduction of HSR for inter-regional connectivity." Such connectivity, he says, can induce growth for different sectors. It could be industries or institutions. The study reiterates this: "Due to the absence of well-established facilities,

organizations may not wish to establish in under-developed regions. For example, most of

connectivity, uniform development can be encouraged, and the government may not need to

the SEZs of Karnataka are located in Bengaluru. This study shows that with high-speed

provide heavy subsidies for industries to grow in under-developed regions."