

A unique technology gift –World class Metro rail, free of Government investments!

The Skybus Metro Rail technology is our India’s contribution of the new millennium to cause a paradigm shift in urban transportation. First presented by Mr B. Rajaram (Indian railway Service of Engineers 1970-2005), in the year 1989 at the Bologna University,Italy as Skywheels to solve the urban transport problem in a holistic and eco-friendly manner, was engineered over the years and presented to the country by him, as Sky Bus Metro technology in 2000. It is none other than Bharat Ratna Shri Abdul Kalam, as Principal Scientific Advisor who upheld the technical soundness of the technology. USA granted patents to Mr Rajaram.



Inventor & Developer

Mr Rajaram then made presentations to industries, administrations to make them appreciate what the new technology is and how it will benefit our common man providing cost effective eco-friendly urban transportation of better quality than what is offered by the existing three to four times expensive, international metro technology. Finally 34 industries of our country came together and invested their own funds to demonstrate the technology by putting up a full life size prototype Sky Buses, Sky station. Sky tracks including automatic ticketing systems, all fully air-conditioned. (Yr 2003). A rare miracle of show of strength by our industry!



First Prototype at Goa

World’s First Sky Bus Metro Rail test track:

At a total cost of Rs 50 cr to konkan Railway and contributions from Industry to the extent of Rs 4 cr, Mr Rajaram as MD Konkan Railway put up the test track with approval of Central govt. dept of Science & Technology also participated with Sky Bus coach set.(Yr 2004-05) One can now experience how it feels to travel by the Sky Bus!



Dynamic test results conducted at 70kmph show that the Sky Bus has superior performance as

Speed	Braking Distance meters	Vertical	Transverse		Longitudinal		
Km ph		Max accn g	RI	Max accn g	RI	Max accn g	RI
60	136	0.036	1.703	0.026	1.788	0.052	2.136
70	174	0.122	2.692	0.04	2.003	0.077	2.395
Perm issible limits		Max.Acceleration 0.3g going upto 0.35 g if no resonance is observed. Ride Index (RI): 3.25 normal , can go upto 4.0 for EMU and DEMU					

compared to the best of international standard metros! It also showed that average cost per km is less than Rs 36 cr for test track,including one set of rolling stock!

So there is no doubt that commercial costs will not be more than Rs 50 cr! One gets spacious interiors of coach with stations and coaches fully air-conditioned.

Unique features: Provides solution for **people, goods & municipal services** too! No other metro can do this. Follows existing roads and does not disturb the habitat. Least land is needed.

Affordable for common man as well as the State:

At Rs 500 per family, 1000 pass.km a month is provided. Affordable by common man. No subsidy or investment required from the State Govt! **Financially viable** and hence BOT operators will come forward to put up at their cost and recover their capital in 5 to 7 years.

Capacities scalable from 20000 passenger per hour per direction to 80000 ! It is mass rapid rail system. It is safer system being derailment-free and collision-free.

Construction: Within 3 years you get working metro- all prefabricated so least disturbance to daily life in the city!

Action by a State: (1). Grant right of way 6m above & over roads (2). Pass the Skybus Metro Act for the city. (3). Enter into a concession agreement with a BOT operator. (4) Under the Act appoint a Safety Commissioner to certify for safety.

For every 10km route, 2.5 lac users daily are served.

You get India’s own but world class Metro rail, which rest of the world can only envy, with no Government investment! Govrnments,industry