

TECHNICAL SPECIFICATIONS & PERFORMANCE

	HYBRID ROAD TRAIN	LIGHT HYBRID ROAD TRAIN
Gross vehicle wt./coach	10,000 kgs.	8,000 kgs.
Empty wt./passenger coach	6,000 kgs.	5,000 kgs.
Pay load cap/net wt.	4,200 kgs.	2,800 kgs.
Total wt. (5 coaches)	50,000 kgs.	40,000 kgs.
Primary power	- 300 KVA GEN-SET - 100 hp motor, 125 VFD/coach - 260 pcs. battery 12V 42 amp.	- 185 KVA GEN-SET - 75 hp motor, 100 VFD/coach - 208 pcs. battery 12V 42 amp.
Number of axle per coach	- Pilot coach - 2 axle - Passenger coach - 1 axle - Power coach - 1 axle	- Pilot coach - 2 axle - Passenger coach - 1 axle - Power coach - 1 axle
Turning radius	25 meters	20 meters
Tires	Rubber (11 x 22.5)	Rubber (8.25 x 16)
Brake system	Primary - electronic Secondary - pneumatic full air brake	Primary - electronic Secondary - hydraulic brake
Parking brake	Maxi brake	Maxi brake
Body panel	Fiber glass reinforced	Fiber glass reinforced
Maximum speed	50 Kph	50 Kph
Security / safety features	- Emergency door switch - Emergency glass hammer - Fire extinguisher	- Emergency door switch - Emergency glass hammer - Fire extinguisher
Operating features	All doors have obstacle detection system	All doors have obstacle detection system
Special features	- Regenerative braking sytem - Hybrid - Landing gear - Fifth wheel articulation - Fully air condition cabin	- Regenerative braking sytem - Hybrid - Landing gear - Fifth wheel articulation - Fully air condition cabin



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CENTRALLY-POWERED HYBRID ELECTRIC ROAD TRAIN



for more information, please write, fax, call, or email:



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**DEPARTMENT OF SCIENCE AND TECHNOLOGY
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The Road Train harnesses technologies to boost local competitiveness in advanced transport systems. Its eventual adoption will help:

- Provide hybrid electric vehicle (HEV) technology that can be transferred to local fabricators leading to advancement in capability and competitiveness in HEV production
- Reduce both operational costs and pollutant emissions
- Provide technological solutions to a broad range of urban transport concerns

DIMENSION / BODY DESCRIPTION

	HYBRID ROAD TRAIN	LIGHT HYBRID ROAD TRAIN
Number of coaches	(5 coaches) - 1 pilot coach with passenger - 3 passenger coach - 1 power coach	(5 coaches) - 1 pilot coach with passenger - 3 passenger coach - 1 power coach
Coach dimension	L - 8 meters W - 2.5 meters H - 3 meters	L - 6 meters W - 2.1 meters H - 3 meters
Total length	40 meters	30 meters
Passenger capacity	Sitting capacity - 21 Standing capacity - 39	Sitting capacity - 12 Standing capacity -28
Total passenger per coach	60 passengers	40 passengers
Doors per coach	2 doors	2 doors
Door width (clear opening)	2 meters	1 meter
Air-conditioning	Overhead diffuser	Overhead diffuser

