

Correlation of number 3
As per purchasing power of the domestic currency India is the 3rd largest economy
India is world's 3rd largest automative market in terms of sale
India is the 3<sup>rd</sup> highest importer of petroleum products
India has close to 3 million trucks currently plying on roads plying 100 billion Km per year
India is also the 3rd largest carbon emitting country
Trucks in India have a share of 40% of road transport emission and fuel consumption
Road transport is growing at a CAGR of 8%
Unless conversion to cleaner fuel happens carbon emissions will be compounded at 8% year on year

























Commercial element comparison of Diesel vs CNG vs EV truck							
Element	Units of Measurement	Diesel	CNG	EV			
Capacity	MT	25	25	25			
Mileage	KMPL	3.5	3.5	2 (KW/h/Km)			
Fuel Cost	Rs/Litre	98	93	8 (Per Unit)			
Capital Cost	Rs	25 Lakhs	27 Lakhs	80 Lakhs			
Operating Cost (Fixed + Variable)	Rs/Km	70	80	100			
PTPK for 250 Km round trip	Rs/MT/KM	2.7	3.2	4.0			

• Although the fuel cost of CNG is cheaper than Diesel and EV is even more cheaper than CNG, their Capital cost is very high in comparison to Diesel trucks, secondly their mileage is also lower compared to Diesel truck

Values are approximate in nature and not to be taken at face value





	& Total La	anded Cost of all 3 mod	es	
<ul> <li>Any domestic freight tmove</li> <li>Loading cost at Sou</li> <li>2. First Mile Freight Co</li> <li>2. Whether size (Summary Strength Compared Strengt</li></ul>	ment whether it is via Coa rce ost	stal Shipping, Rail or Road compris	ses of the following cost components	
<ol> <li>Warehousing/Stora</li> <li>Last Mile Cost from</li> </ol>	warehouse/storage space	to customer	g cost	
<ul> <li>Except Road transport which second mile and warehouse</li> </ul>	n can be delivered directly /storage cost	from Source to destination withir	firstmile, both waterways and rail inc	ur
• Just comparing first mile wa	terways is 50% the cost of	rail and road is 150% the cost of r	ail and hence they look cheaper	
<ul> <li>But second mile for waterway handlings involved via warel</li> </ul>	ays and rail again road is us nouse/storage spaces. This	sed, in addition to the additional r s negates the initial lower cost adv	oad cost in second mile there are mul antage of first mile	tiple
• As a result at a landed cost l	evel road is always cheape	er as compared to Rail and Water v	vays	
• Rail and Waterways are only	attractive when very high	volume needs to be transported	in one go	
• Waterways is only attractive	when a firm has captive je	etty at both loading and unloading	g points	
	Generic Cost compo Cement	onents for 1 ton of		
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