

### Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Provision of additional capacitor bank at Traction Sub- Station in Jhansi Division		Sector: Zonal Railway			
Year to be filled by BEE			Technology: Rly's Own			
Description of the energy conservation measure: Additional Capacitor banks provided at Datia, Basai, Gwalior, Hetampur, and Lalitpur Traction Sub Stations for improvement of power Factor from 0.95 to 0.97 so as to reduce the T&D losses and to get rebate/incentive in power factor as per the provision of Tariff Orders. At Lalitpur and Hetampur TSS, the power factor has improved to beyond 0.98 in some of the months. We have succeeded in this project and got a direct rebate of Rs. 107.35 lakhs due to record improvement in Power Factor during 2006-07 from MPMKVV Co. Ltd. And UPPCL apart from associated savings in T & D losses, which has gone in account of the concerned SEB's.						
<b>Picture/ sketch/ drawing before modification</b> (if available)			<b>Picture/ sketch/ drawing after modification</b>			
Agency that executed the project (with complete address and email):						
Total investment, Rs.4.00 Lakhs			Year of implementation: 2006-07			
First year energy cost savings, Rs.:107.35 Lakhs						
First year other savings, Rs.:Savings in T & D losses unaccounted						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other	
Energy consumption before						
Energy consumption after						
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	4.40					
Company complete address: Senior Divisional Electrical Engineer(Traction Distribution) North Central Railway, Jhansi.				We authorise Bureau to use this information for dissemination		
Contact person who could be contacted for more information: Shri Sanjay Singh Senior Divisional Electrical Engineer (Traction Distribution) North Central Railway, Jhansi.						
				Signature		
				Date		

### Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Provision of static inverter in place of ARNO Converter in Electric Loco Shed Jhansi & Kanpur.				Sector: Zonal Railway	
Year to be filled by BEE					Technology: Rly's Own	
Description of the energy conservation measure: Provision of static inverter in place of ARNO Converter in Electric Locos at Kanpur and Jhansi.						
<b>Picture/ sketch/ drawing before modification</b> (if available)			<b>Picture/ sketch/ drawing after modification</b>			
Agency that executed the project (with complete address and email):						
Total investment, Rs.17.37 Lakhs			Year of implementation: 2006-07			
First year energy cost savings, Rs.:128.54 Lakhs						
First year other savings, Rs.: Savings unaccounted						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other	
Energy consumption before						
Energy consumption after						
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	4.40					
Company complete address: Senior Divisional Electrical Engineer (Traction Rolling Stock) North Central Railway, Jhansi. Senior Divisional Electrical Engineer (Traction Rolling Stock) North Central Railway, Kanpur. Contact person who could be contacted for more information: Shri Pushpesh Raman Tripathi Senior Divisional Electrical Engineer (Traction Rolling Stock) North Central Railway, Jhansi. Shri R.K.Singh Senior Divisional Electrical Engineer (Traction Rolling Stock) North Central Railway, Kanpur.				We authorise Bureau to use this information for dissemination  Signature  Date		

### Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Provision of energy efficient fittings i.e. FL fittings, MH Fittings, CFLs, T-5, High frequency choke.	Sector: Zonal Railway			
Year to be filled by BEE		Technology: Rly's Own			
Description of the energy conservation measure: By the use of energy efficient fittings i.e. Metal halide 1079 Nos., FT Fittings-3375 Nos., CFLs-1902 Nos., T-5-330 Nos., High Frequency Chokes-400 Nos., at Railway stations, booking offices, reservation offices, platforms, circulating areas, concourse Rs. 58.81 Lakhs have been saved.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email):					
Total investment, Rs.30 Lakhs			Year of implementation: 2006-07		
First year energy cost savings, Rs.: 58.81 Lakhs					
First year other savings, Rs.: Savings unaccounted					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before					
Energy consumption after					
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	4.00				
Company complete address: Senior Divisional Electrical Engineer (General Services) North Central Railway, Jhansi. Senior Divisional Electrical Engineer (General Services) North Central Railway, Allahabad. Divisional Electrical Engineer (General Services) North Central Railway, Agra				We authorise Bureau to use this information for dissemination  Signature  Date	
Contact person who could be contacted for more information: Shri Yatendra Kumar Senior Divisional Electrical Engineer (General Services) North Central Railway, Jhansi. Shri R.K.Gupta Senior Divisional Electrical Engineer (General Services) North Central Railway, Allahabad. Shri Ram Lagan Divisional Electrical Engineer (General Services) North Central Railway, Agra					