



Energy Conservation Measure implemented in 2006-07

ID	Title of the measure	Sector: Fertilisers
Year	1. Replacement of 160 W, MLL type lamp with energy efficient 50 W metal halide lamp	Technology: Steam Reforming of Natural Gas

We were using 160 W Mercury vapour lamps in (160 MLL) in urea silo .However, there had been rapid development in the field of illumination system in the recent past. Energy efficient metal halide lamp with longer average life & better colour rendering were introduced. To save energy as well as reducing maintenance cost, the existing 160 W MLL lamps were replaced with 50 W metal halide lamps in the silo in phase manner. This has resulted to following benefits:

- 1 Earlier energy consumption due to lighting in urea Silo was 35040 KWH. & now it has reduced to 10950 KWH for 25 lamps.
- 2 Average life of MLL Type Lamp was 5000 hrs. However, changing them with 50 W Metal Halide lamps (whose average life is 15000hrs) the maintenance cost has been reduced to 1/3 times.

Picture (MLL Type Lamp)	Picture (Metal Halide Lamp)
	
Agency that executed the project (with complete address and email): Inhouse	
Total investment, Rs 0.826 Lakh	Year of implementation: 2006-07
First year energy cost savings, Rs. 0.617 Lakh	
First year other savings Rs.	

On annual basis	MWH			
Power consumptions before	35.040			
Power consumption after	10.950			
Energy tariff, Rs/MWH	2561.09			
Company complete address: IFFCO Aonla-II P. O. IFFCO Township Bareilly (U. P.)-243403 Contact person who could be contracted for more information: N. C. Nigam, Senior General Manager		We authorise Bureau to use this information for dissemination Signature Date		

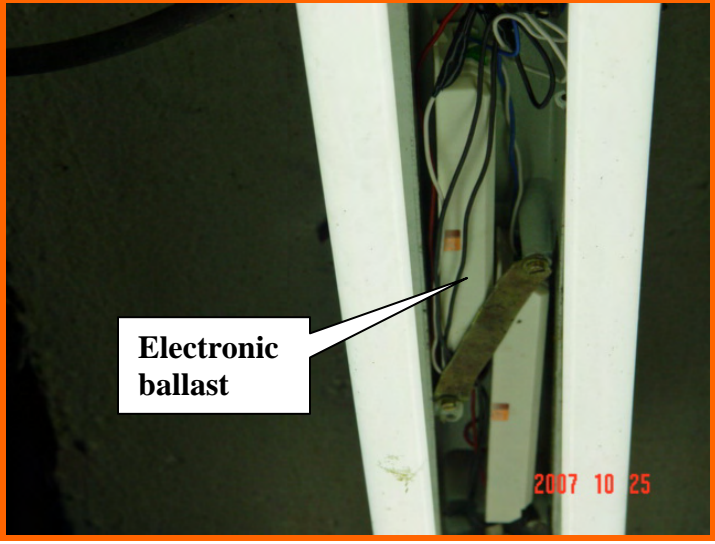
Energy Conservation Measure implemented in 2006-07

ID	Title of the measure	Sector: Fertilisers
Year	2. Replacement of conventional ballast of fluroscent tubelights with electronics ballast	Technology: Steam Reforming of Natural Gas

We were using conventional electromagnetic ballast for fluorescent tube light fixtures (4 feet , 36 W) . However, there had been rapid development in the field of illumination system in the recent past. Energy efficient Electronic ballast with longer average life & less power losses were introduced. To save energy as well by reducing losses in the system, the existing conventional electromagnetic ballast were replaced with electronic ballast in phase manner. This has resulted to following benefits

- 1 Earlier energy consumption due to conventional electromagnetic ballast for fluorescent tube fittings (4 feet , 36 W) was 21024 KWH. Now this has reduced to 6132 KWH due to replacement of 200 ballasts.

- 2 To compensate flickering effect, electronic ballast were fixed in place of conventional ballast in existing fittings

Picture (Electronic Ballast)	
	
Agency that executed the project (with complete address and email): Inhouse	
Total investment, Rs 0.40 Lakh	Year of implementation: 2006-07

First year energy cost savings, Rs. 0.382 Lakh				
First year other savings Rs.				
On annual basis	MWH			
Power consumption before	21.024			
Power consumption after	6.132			
Energy tariff, Rs/MWH	2561.09			
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