




Energy Conservation Measure implemented in 2006-2007

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure <u>Replacement of 36W/40W Fluorescent Lamps by energy efficient 28W T-5 Lamps (Phase – 2)</u>	Sector			
Year to be filled by BEE		Technology			
Description of the energy conservation measure: Replacement of 500 nos. of 36W/40W Fluorescent Lamps by energy efficient 28W T-5 Lamps in Administrative offices and service buildings. Phase - 2					
Picture/ sketch/ drawing before modification (if available)		Picture/ sketch/ drawing after modification			
					
Agency name and complete address					
Procured from: M/s. Asian Electronics, Address: D 11, Road No 28, Wagle Industrial Estate, Thane. e-mail: aelchn@aelgroup.com. Executed by: I.C.F.					
Total investment, Rs.: 2.7 lakhs		Year of implementation: 2006-07			
First year energy cost savings, Rs.: 0.95 lakhs					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	48.576	--	--	--	--
Energy consumption after	29.568	--	--	--	--
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	--	--	--	--
Company complete address: INTEGRAL COACH FACTORY, PERAMBUR, I.C.F. P.O., CHENNAI – 600 038				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: SHRI.M. RAJAMURUGAN, Dy. CEE/C&M				Signature	
				Date	



Energy Conservation Measure implemented in 2006-2007

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure	Sector			
Year to be filled by BEE	<u>Replacement of 15W IC Lamps in Control Panel of Machinery and Plants with modular LED indication lamp of 0.5 W. (Phase-2)</u>	Technology			
Description of the energy conservation measure: Replacement of 500 nos. of 15W IC Lamps in Control Panel of Machinery and Plants with modular LED indication lamp of 0.5 W in Shell division. (Phase – 2)					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): <u>Procured from: M/s. Binay Opto Electronics Pvt. Ltd.,</u> <u>Address: 44, Armenian Street, Calcutta – 700 001.</u> <u>e-mail: binay@vsnl.com</u> <u>Executed by: I.C.F.</u>					
Total investment, Rs.: 0.75 lakhs			Year of implementation: 2006-07		
First year energy cost savings, Rs.: 3.18 lakhs					
First year other savings, Rs.: 5000					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	65.700	--	--	--	--
Energy consumption after	2.190	--	--	--	--
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	--	--	--	--
Company complete address: INTEGRAL COACH FACTORY, PERAMBUR, I.C.F. P.O., CHENNAI – 600 038				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: SHRI.M. RAJAMURUGAN, Dy. CEE/C&M				Signature	
				Date	


Energy Conservation Measure implemented in 2006-2007

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure <u>Replacement of Conventional Chokes with Electronic Ballast in Fluorescent Light fittings</u>	Sector
Year to be filled by BEE		Technology
Description of the energy conservation measure: Replacement of 500 nos. of Conventional Chokes with Electronic Ballast in Fluorescent Light fittings in hospital and D&D buildings.		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
		
Agency that executed the project (with complete address and email): Purchased from market and executed by ICF.		
Total investment, Rs.: 1.50 lakhs	Year of implementation: 2006-07	
First year energy cost savings, Rs.: 0.53 lakhs		
First year other savings, Rs.: Nil		
On annual basis	kWh 000'	Coal (Tons)
Energy consumption before	48.576	--
Energy consumption after	38.016	--
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	--
Company complete address: INTEGRAL COACH FACTORY, PERAMBUR, I.C.F. P.O., CHENNAI – 600 038		We authorise Bureau to use this information for dissemination
Contact person who could be contacted for more information: SHRI. M. RAJAMURUGAN, Dy. CEE/C&M		Signature
		Date



Energy Conservation Measure implemented in 2006-2007

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure Replacement of 300 W I/C lamp by 150 Watts Metal Halide Lamp (Phase – 2)	Sector
Year to be filled by BEE		Technology
Description of the energy conservation measure: Replacement of 300 nos. of 300 W I/C lamps by 150 Watts Metal Halide Lamps in Sheet Metal Shop and Welding & Assembly Shops. (Phase – 2)		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
		
Agency that executed the project (with complete address and email): Purchased from market and executed by ICF.		
Total investment, Rs.: 7.50 lakhs		Year of implementation: 2006-07
First year energy cost savings, Rs.: 4.28 lakhs		
First year other savings, Rs.: 4500/-		
On annual basis	kWh 000'	Coal (Tons)
Energy consumption before	190.080	--
Energy consumption after	104.544	--
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	--
Company complete address: INTEGRAL COACH FACTORY, PERAMBUR, I.C.F. P.O., CHENNAI – 600 038		We authorise Bureau to use this information for dissemination
Contact person who could be contacted for more information: SHRI. M. RAJAMURUGAN, Dy. CEE/C&M		Signature
		Date

Energy Conservation Measure implemented in 2006-2007

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure <u>Replacement of 60 W I/C machine lamp with 11 Watts CFL</u>	Sector			
Year to be filled by BEE		Technology			
Description of the energy conservation measure: Replacement of 50 nos. of 60 W I/C machine lamp with 11 Watts CFL in Machine Shop.					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
					
Agency that executed the project (with complete address and email): Purchased from market and executed by ICF.					
Total investment, Rs.: 0.25 lakhs	Year of implementation: 2006-07				
First year energy cost savings, Rs.: 0.26 lakhs					
First year other savings, Rs.: 6000/-					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	6.336	--	--	--	--
Energy consumption after	1.161	--	--	--	--
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	--	--	--	--
Company complete address: INTEGRAL COACH FACTORY, PERAMBUR, I.C.F. P.O., CHENNAI – 600 038				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: SHRI. M. RAJAMURUGAN, Dy. CEE/C&M				Signature	
				Date	

Energy Conservation Measure implemented in 2006-2007

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure <u>Replacement of 60 W I/C lamp with 9 Watts CFL- (Phase – 2)</u>	Sector			
Year to be filled by BEE		Technology			
Description of the energy conservation measure: Replacement of 1000 nos. of 60 W I/C lamp with 9 Watts CFL in Staircase in Residential Quarters and Corridors in Administrative Office. (Phase – 2)					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Purchased from market and executed by ICF.					
Total investment, Rs.: 2.00 lakhs			Year of implementation: 2006-07		
First year energy cost savings, Rs.: 11.61 lakhs					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	262	--	--	--	--
Energy consumption after	31	--	--	--	--
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	--	--	--	--
Company complete address: INTEGRAL COACH FACTORY, PERAMBUR, I.C.F. P.O., CHENNAI – 600 038				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: SHRI. M. RAJAMURUGAN, Dy. CEE/C&M				Signature	
				Date	

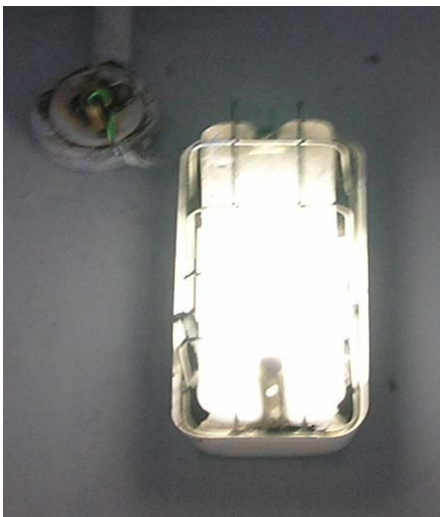
Energy Conservation Measure implemented in 2006-2007

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure <u>APFC Panel in LT distribution Networks – (Phase-2)</u>	Sector
Year to be filled by BEE		Technology
Description of the energy conservation measure: Installation of 3 nos. of APFC Panel in LT distribution Networks. (Phase-2)		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
Agency that executed the project (with complete address and email): <u>Purchased from: Saha-Prague Ltd.,</u> <u>Address: 915 South Block, 9th Floor, Manipal Centre, 47, Dickenson Road, Bangalore-560024.</u> <u>Executed by: ICF</u>		
Total investment, Rs.: 6.00 lakhs	Year of implementation: 2006-07	
First year energy cost savings, Rs.: 6.00 lakhs		
First year other savings, Rs.: Nil		
On annual basis	kWh 000'	Coal (Tons)
	Gas Nm ³	Oil (kL)
Energy consumption before	--	--
Energy consumption after	--	--
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	--
Other	--	--
Company complete address: INTEGRAL COACH FACTORY, PERAMBUR, I.C.F. P.O., CHENNAI – 600 038		We authorise Bureau to use this information for dissemination
Contact person who could be contacted for more information: SHRI. M. RAJAMURUGAN, Dy. CEE/C&M		Signature
		Date

Energy Conservation Measure implemented in 2006-2007

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure <u>Replacement of Path light fittings of rating 70W SV lamp to 11W CFL</u>	Sector
Year to be filled by BEE		Technology
Description of the energy conservation measure: Replacement of 50 Nos. of Path light fittings of rating 70W SV lamp to 11W CFL.		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
		
Agency that executed the project (with complete address and email): Purchased from: Philips India, Address: Temple Tower, 476/672, Anna Salai, Nandanam, Chennai – 600 035. e-mail: nmohan@philips.com Executed by: ICF		
Total investment, Rs.: 1.00 lakhs	Year of implementation: 2006-07	
First year energy cost savings, Rs.: 0.73 lakhs		
First year other savings, Rs.: 0.50 lakhs		
On annual basis	kWh 000'	Coal (Tons)
	Gas Nm ³	Oil (kL)
	Other	
Energy consumption before	17.082	--
Energy consumption after	2.409	--
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	--
Company complete address: INTEGRAL COACH FACTORY, PERAMBUR, I.C.F. P.O., CHENNAI – 600 038		We authorise Bureau to use this information for dissemination
Contact person who could be contacted for more information: SHRI. M. RAJAMURUGAN, Dy. CEE/C&M		Signature
		Date



Energy Conservation Measure implemented in 2006-2007

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure <u>Energy Saver for Welding Sets</u>	Sector			
Year to be filled by BEE		Technology			
Description of the energy conservation measure: Provision of energy saving devices for 50 nos. of welding sets.					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
Agency that executed the project (with complete address and email): <u>Purchased from: M/s. S.S. Enterprises,</u> <u>Address: C/2/14, Gururaj Society, Padmavthar, Pune – 37.</u> <u>Executed by: ICF</u>					
Total investment, Rs.: 3.00 lakhs	Year of implementation: 2006-07				
First year energy cost savings, Rs.: 0.47 lakhs					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	41.180	--	--	--	--
Energy consumption after	31.680	--	--	--	--
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	--	--	--	--
Company complete address: INTEGRAL COACH FACTORY, PERAMBUR, I.C.F. P.O., CHENNAI – 600 038				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: SHRI. M. RAJAMURUGAN, Dy. CEE/C&M				Signature	
				Date	

Energy Conservation Measure implemented in 2006-2007

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure <u>Provision of Solar Water Heater in place of Water Geysers</u>	Sector
Year to be filled by BEE		Technology
Description of the energy conservation measure: 6 nos. of 2 kW Water Geysers installed in ICF Rest House replaced with a 1000 Lrts. of Solar Water Heater system.		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
		
Agency that executed the project (with complete address and email): Purchased from market and executed by ICF.		
Total investment, Rs.: 3.0 lakhs		Year of implementation: 2006-07
First year energy cost savings, Rs.: 0.45 lakhs		
First year other savings, Rs.: Nil		
On annual basis	kWh 000'	Coal (Tons)
Energy consumption before	9.504	--
Energy consumption after	0.528	--
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	--
Company complete address: INTEGRAL COACH FACTORY, PERAMBUR, I.C.F. P.O., CHENNAI – 600 038		We authorise Bureau to use this information for dissemination
Contact person who could be contacted for more information: SHRI. M. RAJAMURUGAN, Dy. CEE/C&M		Signature
		Date

Energy Conservation Measure implemented in 2006-2007

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure <u>Switching OFF 750kVA transformer kept in idle condition.</u>	Sector			
Year to be filled by BEE		Technology			
Description of the energy conservation measure: Switching OFF of 6 nos. of 750kVA transformer kept in idle condition at sub-stations where more than one transformer are available, by this no-load loss of 1300 Watts/transformer is avoided.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): <u>Executed by: I.C.F.</u>					
Total investment, Rs.: Nil			Year of implementation: 2006-07		
First year energy cost savings, Rs.: 3.41 lakhs					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	--	--	--	--	--
Energy consumption after	--	--	--	--	--
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	--	--	--	--
Company complete address: INTEGRAL COACH FACTORY, PERAMBUR, I.C.F. P.O., CHENNAI – 600 038				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: SHRI. M. RAJAMURUGAN, Dy. CEE/C&M				Signature	
				Date	

Energy Conservation Measure implemented in 2006-2007

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure <u>Energy saver for lighting</u>	Sector
Year to be filled by BEE		Technology
Description of the energy conservation measure: One number of energy saver of capacity 100 kVA provided in lighting panel in Sheet Metal Shop.		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
Agency that executed the project (with complete address and email): <u>Procured from: M/s. Annaswamy & sons,</u> <u>Address: B-3. I-Floor, Hongkong Complex, No.33.Ramaswamy Street, T.Nagar, Chennai-17.</u> <u>e-mail: annaswamysons@yahoo.com</u> <u>Executed by: I.C.F.</u>		
Total investment, Rs.: 6.0 lakhs	Year of implementation: 2006-07	
First year energy cost savings, Rs.: 1.71 lakhs		
First year other savings, Rs.: Nil		
On annual basis	kWh 000'	Coal (Tons)
	Gas Nm ³	Oil (kL)
	Other	
Energy consumption before	190	--
Energy consumption after	156	--
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	--
Company complete address: INTEGRAL COACH FACTORY, PERAMBUR, I.C.F. P.O., CHENNAI – 600 038		We authorise Bureau to use this information for dissemination
Contact person who could be contacted for more information: SHRI. M. RAJAMURUGAN, Dy. CEE/C&M		Signature
		Date

Energy Conservation Measure implemented in 2006-2007

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure <u>Distribution transformer with Laser scribed core. – (Phase-2)</u>	Sector	
Year to be filled by BEE		Technology	
Description of the energy conservation measure: Replacement of 2 Nos. of over aged transformer with CRGO core with transformer having laser scribed core in distribution network. Phase-2			
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): <u>Procured from: M/s. Indo Tech transformer Ltd,</u> <u>Address: No.31.VGP Salai, Saidapet, Chennai-600 015.</u> <u>e-mail: ittl-spt@eth.net</u> <u>Executed by: Licensed contractor.</u>			
Total investment, Rs.: 3.0 lakhs	Year of implementation: 2006-07		
First year energy cost savings, Rs. 0.65 lakhs			
First year other savings, Rs. Nil			
On annual basis	kWh 000'	Coal (Tons)	
	Gas Nm ³	Oil (kL)	
	Other		
Energy consumption before	59	--	--
Energy consumption after	46	--	--
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	--	--
Company complete address: INTEGRAL COACH FACTORY, PERAMBUR, I.C.F. P.O., CHENNAI – 600 038		We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: SHRI. M. RAJAMURUGAN, Dy. CEE/C&M		Signature	
		Date	



Energy Conservation Measure implemented in 2006-2007

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure <u>Switching OFF transformers during non peak hours</u>	Sector
Year to be filled by BEE		Technology
Description of the energy conservation measure: Switching OFF transformers during non peak hours in 10 sub-stations by Current Controllers in Shell division.		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
Agency that executed the project (with complete address and email): Procured & Executed by: M/s. Industrial Controls & Devices Pvt. Ltd, Address : No.10.Mettukuppam Road, Via.Allapakkam Road, Maduravayal, Chennai-95. e-mail: icdsales@vsnl.net		
Total investment: Rs.: 5.0 lakhs	Year of implementation: 2006-07	
First year energy cost savings, Rs.: 2.75 lakhs		
First year other savings, Rs.: Nil		
On annual basis	kWh 000'	Coal (Tons)
	Gas Nm ³	Oil (kL)
	Other	
Energy consumption before	548	--
Energy consumption after	492	--
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	--
Company complete address: INTEGRAL COACH FACTORY, PERAMBUR, I.C.F. P.O., CHENNAI – 600 038		We authorise Bureau to use this information for dissemination
Contact person who could be contacted for more information: SHRI. M. RAJAMURUGAN, Dy. CEE/C&M		Signature
		Date

Energy Conservation Measure implemented in 2006-2007

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure <u>Switching OFF Air circulators during non-working hours – (Phase-2)</u>	Sector			
Year to be filled by BEE		Technology			
Description of the energy conservation measure: Switching OFF Air circulators of 200 Nos. during non-working hours in Shop Floors.					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
					
Agency that executed the project (with complete address and email): Procured from: Purchased from market and executed by ICF.					
Total investment, Rs.: 1.60 lakhs	Year of implementation: 2006-07				
First year energy cost savings, Rs.: 2.56 lakhs					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	1311.552	--	--	--	--
Energy consumption after	798.336	--	--	--	--
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	--	--	--	--
Company complete address: INTEGRAL COACH FACTORY, PERAMBUR, I.C.F. P.O., CHENNAI – 600 038				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: SHRI. M. RAJAMURUGAN, Dy. CEE/C&M				Signature	
				Date	

Energy Conservation Measure implemented in 2006-2007

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure <u>Arresting of Air Leakages</u> <u>(Phase-2)</u>	Sector			
Year to be filled by BEE		Technology			
Description of the energy conservation measure: Reduction of system air leak in Shell and Furnishing divisions by 5%. Phase-2					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
Agency that executed the project (with complete address and email): <u>Executed by: I.C.F.</u>					
Total investment, Rs.: 0.5 lakhs	Year of implementation: 2006-07				
First year energy cost savings, Rs.: 16.46 lakhs					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	1501.819	--	--	--	--
Energy consumption after	1172.619	--	--	--	--
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	--	--	--	--
Company complete address: INTEGRAL COACH FACTORY, PERAMBUR, I.C.F. P.O., CHENNAI – 600 038				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: SHRI. M. RAJAMURUGAN, Dy. CEE/C&M				Signature	
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