

## 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 low efficient, under loaded, high commutation UPS system for Computer Division.	Sector :GENERAL
Year to be filled by BEE		Technology : Telecom
Description of the energy conservation measure:		
<p>The 2x120KVA UPS were commissioned in 1985 through M/S Keltron , these UPS were thyristor based technology and were highly energy consuming due to high commutation involvement. Moreover these UPS were running very under loaded i.e.10-12% of its rated capacity. These were feeding EDP utilities.</p> <p>The 115 nos. of portable UPS of 500 VA each has been provided for PC's. The 3x2.2 KVA connected with servers. Like wise the operation of 2x120KVA UPS off loaded.</p>		



Agency that executed the project (with complete address and email): In House Team					
Total investment, Rs.: 2.56 Lakh			Year of implementation: 2006-2007		
First year energy cost savings, Rs.: 9.40 Lakh					
First year other savings, Rs.: NIL					
On annual basis	Lakh kWh	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	2.91	NA	NA	NA	NA
Energy consumption after	1.02	NA	NA	NA	NA
Energy tariff, Rs/ kWh	5.00	NA	NA	NA	NA
Company complete address: Supplied by- M/S Sun Power Conversion , Lucknow				We authorize Bureau to use this information for dissemination	
(Commissioning by In-house team. Contact person who could be contacted for more information: Mr. Siddque 0522-3021636				Signature	
				Date	

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## Energy Conservation Measure implemented in 2006-2007

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ID to be filled by BEE	Title of the measure Shut off 75 HP, AHU & retrofit 2x.2 Ton Split WAC installation at Circuit Division.	Sector :GENERAL
Year to be filled by BEE		Technology : Telecom
Description of the energy conservation measure:  Photo lab section of PCB, Circuit Division was connected 07x600 TR Central A/C through AHU No.6 that had 75 HP Induction motor, which was running all working days.  2x2 Ton capacity Split WAC "Voltas" Make have been installed after retrofit modification and above said AHU isolated and shutoff.		

**Picture before Modification**

(NOT AVAILABLE)



**Picture after Modification**

Agency that executed the project (with complete address and email): In House Team					
Total investment, Rs.: 1.25 Lakh			Year of implementation: 2006-2007		
First year energy cost savings, Rs.: 8.12 Lakh					
First year other savings, Rs.: NIL					
On annual basis	Lakh kWh	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	2.82	NA	NA	NA	NA
Energy consumption after	1.21	NA	NA	NA	NA
Energy tariff, Rs/ kWh	5.00	NA	NA	NA	NA
Company complete address: Supplied by- M/S Voltas Limited , Lucknow  (Commissioning by In-house team. Contact person who could be contacted for more information:				We authorize Bureau to use this information for dissemination  Signature  Date	

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## 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 Development of new treatment line in place of large capacity at Component Division.	Sector :GENERAL
Year to be filled by BEE		Technology : Telecom
<p><b>Description of the energy conservation measure:</b></p> <p>The 9-11 nos. of tanks were used for treatment / plating line in Finishing Shop of Component Division. The line was facilitated with 20HP Fume Scrubber system, conveyor and necessary connected rectifier.</p> <p>The Degreasing line development works done by in-house team of Component Division to meet out the existing requirement of BTS Assembly component.</p>		

**Picture after Modification**

**Picture before Modification  
NOT AVAILABLE**



Agency that executed the project (with complete address and email): In -house team					
Total investment, Rs.: 1.62 Lakh			Year of implementation: 2006-2007		
First year energy cost savings, Rs.: 0.85 Lakh					
First year other savings, Rs.: NIL					
On annual basis	Lakh kWh	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	0.45	NA	NA	NA	NA
Energy consumption after	0.27	NA	NA	NA	NA
Energy tariff, Rs/ kWh	5.00	NA	NA	NA	NA
Company complete address: Supplied by- M/S (Commissioning by In-house team. Contact person who could be contacted for more information: Mr. Siddque 0522-3021636				We authorize Bureau to use this information for dissemination	
				Signature	
				Date	

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## Energy Conservation Measure implemented in 2006-2007

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ID to be filled by BEE	Title of the measure Power Factor management in Power Distribution network for plant A/C Section.	Sector :GENERAL
Year to be filled by BEE		Technology : Telecom
Description of the energy conservation measure:		
<p>The monthly average PF was varying between 0.89 to 0.91 at LTP-8 &amp; 13 feeding for Auxiliaries of Compressed Air System and Central Air-conditioning system.</p> <p>The each transformer of 1600 KVA of LTP-8 &amp; 13 at Sub-station No.6, added with 200 KVAR capacitor banks with 25 KVAR capacitors and APFCR (Automatic Power Factor Controller Relay) to improve the Power Factor more than 0.95.</p>		

Picture before Modification  
NOT AVAILABLE

Picture after Modification



Agency that executed the project (with complete address and email): In -house team					
Total investment, Rs.: 2.65 Lakh			Year of implementation: 2006-2007		
First year energy cost savings, Rs.: 14.78 Lakh					
First year other savings, Rs.: NIL					
On annual basis	Lakh kWh	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	43.25	NA	NA	NA	NA
Energy consumption after	39.89	NA	NA	NA	NA
Energy tariff, Rs/ kWh	5.00	NA	NA	NA	NA
Company complete address: Supplied by- M/S Electromac Sales (India) ,111 ,G.B.Marg Yadav Electric Market ,Lucknow  (Commissioning by In-house team.) Contact person who could be contacted for more information: Mr. M.L.Gupta 0522-2683972				We authorize Bureau to use this information for dissemination  Signature  Date	

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## Energy Conservation Measure implemented in 2006-2007

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ID to be filled by BEE	Title of the measure Retrofit modification of Cooling tower and installation of new Cooling Tower for Chilling Water System.	Sector :GENERAL
Year to be filled by BEE		Technology : Telecom

Description of the energy conservation measure:

The retrofit fitting in 7x600 TR cooling tower of central Air-conditioning plant and replacement of old chilling water cooling tower with new energy efficient Cooling Tower. One more picture of central a/c plant was not included.

**Picture before Modification**



**Picture after Modification**



Agency that executed the project (with complete address and email): In -house team & Out source contract

Total investment, Rs.: 6.58 Lakh

Year of implementation: 2006-2007

First year energy cost savings, Rs.: 9.75 Lakh

First year other savings, Rs.: NIL

On annual basis	Lakh kWh	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	3.40	NA	NA	NA	NA
Energy consumption after	1.45	NA	NA	NA	NA
Energy tariff, Rs/ kWh	5.00	NA	NA	NA	NA

Company complete address: Supplied & commissioned by -  
M/S Voltas Limited ,Lucknow for New installation  
(Retrofit modification done by In-house team in central a/c towers.)

We authorize Bureau to use this information for dissemination

Signature

Date

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## 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 Installation of decentralized Compressed Air system with dedicated small capacity compressor for BTS assembly at Component Division..	Sector :GENERAL
Year to be filled by BEE		Technology : Telecom

**Description of the energy conservation measure:**

The central compressed air system was very large capacity 200 kW each with auxiliary and fed the compressed air requirement through long distant distribution network involvement for Tool room and latest developed BTS assembly of Component division.

The existing requirement has been met out by installation of new 7.5 HP M/S Elgy make small capacity dedicated air compressor at the nearest location of end user to avoid distribution losses & dependency of central compressor plant..

Agency that executed the project (with complete address and email): In -house team & Out source contract

**Picture after Modification**



**Picture before Modification**

NOT AVAILABLE

Total investment, Rs.: 0.65 Lakh		Year of implementation: 2006-2007			
First year energy cost savings, Rs.: 0.81 Lakh					
First year other savings, Rs.: NIL					
On annual basis	Lakh kWh	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	*	NA	NA	NA	NA
Energy consumption after	*	NA	NA	NA	NA
Energy tariff, Rs/ kWh	5.00	NA	NA	NA	NA
Company complete address: M/S Electromac Sales (India) ,111 ,G.B.Marg Yadav Electric Market ,Lucknow  (Commissioning by In-house team.) Contact person who could be contacted for more information: Mr. M.L.Gupta 0522-2683972				We authorize Bureau to use this information for dissemination  Signature  Date	

\* The actual central air compressor lowered Energy consumption

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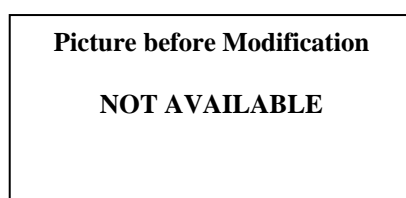
(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure Installation of decentralized Compressed Air system with dedicated small capacity compressor for BTS assembly at Component Division..	Sector :GENERAL
Year to be filled by BEE		Technology : Telecom

**Description of the energy conservation measure:**

The central compressed air system was very large capacity 200 kW each with auxiliary and fed the compressed air requirement through long distant distribution network involvement for BTS manufacturing in Mobile Product Division.(TABA Hall).

The existing requirement has been met out by installation of new TC-100 'Kirlosker' make dedicated air compressor at the nearest location of end user to avoid distribution losses , dependency of central compressor plant and The poor air quality for sophisticated SMD CNC machine.



**Picture after Modification**



Agency that executed the project (with complete address and email): Out source contract					
Total investment, Rs.: 2.96 Lakh			Year of implementation: 2006-2007		
First year energy cost savings, Rs.: 0.93 Lakh					
First year other savings, Rs.: NIL					
On annual basis	Lakh kWh	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	*	NA	NA	NA	NA
Energy consumption after	*	NA	NA	NA	NA
Energy tariff, Rs/ kWh	5.00	NA	NA	NA	NA
Company complete address: M/S Pneumatic Sales Corporation, New Delhi  (Commissioning by Local working agency under guidance of Supplier.) Contact person who could be contacted for more information: Mr. M.L.Gupta 0522-2683972				We authorize Bureau to use this information for dissemination  Signature  Date	

\* The actual central air compressor lowered Energy consumption

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