


Energy Conservation Measure implemented in 2007-2008


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

| | | | | | |
|---|--|------------------------|---|--|--------------|
| ID to be filled by BEE | Title of the measure Replacement of low productivity auto coner with high production auto coner (Schlafhorst 338) | Sector TEXTILE | | | |
| Year to be filled by BEE | | Technology | | | |
| Description of the energy conservation measure: Replacement of old Muratec Autoconer with Advanced technology Schlafhorst 338 Autoconer. | | | | | |
| Picture/ sketch/ drawing before modification (if available) | | | Picture/ sketch/ drawing after modification | | |
| | | |  | | |
| Agency that executed the project (with complete address and email): Saurer India Pvt.Ltd.Mumbai | | | | | |
| Total investment, Rs.: 455.89255 Lacs | | | Year of implementation: 2007-08 | | |
| First year energy cost savings :Rs. 12.738 Lacs/year | | | | | |
| First year other savings, Rs. | | | | | |
| On annual basis | kWh 000' | Coal (Tons) | Gas Nm³ | Oil (kL) | Other |
| Energy consumption before | 952200 | NA | NA | NA | NA |
| Energy consumption after | 649980 | NA | NA | NA | NA |
| Energy tariff, Rs/ kWh | 4.208 | NA | NA | NA | NA |
| Company complete address: Rishab spinning Mills, (Prop. Nahar Spinning Mills Ltd.) Pakhawal Road, Vill. : JODHAN, Distt. : Ludhiana (Punjab) Pin - 142029 | | | | We authorise Bureau to use this information for dissemination Signature Date | |
| Contact person who could be contacted for more information: Mr. T. S. Gill (VP Engg. & Util.) | | | | | |

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|---|--|------------------------|---|---|--------------|
| ID to be filled by BEE | Title of the measure Installation of VSD GA55 Compressor | Sector Textile | | | |
| Year to be filled by BEE | | Technology | | | |
| Description of the energy conservation measure: Installation of VSD GA55 Compressor To maintain the constant pressure of compressed air and to save energy with the help of Variable frequency drive (VFD) motor. | | | | | |
| Picture/ sketch/ drawing before modification (if available) | | | Picture/ sketch/ drawing after modification | | |
| | | |  | | |
| Agency that executed the project (with complete address and email): Atlas Copco | | | | | |
| Total investment, Rs.: 10.11 Lacs | | | Year of implementation: 2007-08 | | |
| First year energy cost savings, Rs.: 5.635 Lacs | | | | | |
| First year other savings, Rs.: | | | | | |
| On annual basis | kWh 000' | Coal (Tons) | Gas Nm³ | Oil (kL) | Other |
| Energy consumption before | 293760 | NA | NA | NA | NA |
| Energy consumption after | 159840 | NA | NA | NA | NA |
| Energy tariff, Rs/ kWh/ | 4.208 | NA | NA | NA | NA |
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|--|--|------------------------|---|---|--------------|
| ID to be filled by BEE | Title of the measure | Sector Textile | | | |
| Year to be filled by BEE | Installation of Variable Frequency Drive (VFD) on Autoconer machine | Technology | | | |
| Description of the energy conservation measure: Installation of Variable Frequency Drive (VFD) on Autoconer for their main motor to maintain the constant vacuum and to save energy. | | | | | |
| Picture/ sketch/ drawing before modification (if available) | | | Picture/ sketch/ drawing after modification | | |
| | | |  | | |
| Agency that executed the project (with complete address and email): Soliton automation ,coimbatore | | | | | |
| Total investment, Rs.:8 lacs | | | Year of implementation: 2007-08 | | |
| First year energy cost savings, Rs.: 13.93 Lacs | | | | | |
| First year other savings, Rs.: | | | | | |
| On annual basis | kWh 000' | Coal (Tons) | Gas Nm³ | Oil (kL) | Other |
| Energy consumption before | 960480 | NA | NA | NA | NA |
| Energy consumption after | 629280 | NA | NA | NA | NA |
| Energy tariff, Rs/ kWh/ | 4.208 | NA | NA | NA | NA |
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| | | | | | |
|---|--|------------------------|---|---|--------------|
| ID to be filled by BEE | Title of the measure Modification of Trolleys of Yarn Conditioning Machine | | Sector Textile | | |
| Year to be filled by BEE | | | Technology | | |
| Description of the energy conservation measure: We increase Yarn conditioning capacity of the machine by modifying the old Trolley's with the new design. | | | | | |
| Picture/ sketch/ drawing before modification (if available) | | | Picture/ sketch/ drawing after modification | | |
| | | |  | | |
| Agency that executed the project (with complete address and email): At site | | | | | |
| Total investment, Rs.:0.75 Lacs | | | Year of implementation: 2007-08 | | |
| First year energy cost savings, Rs.: 2.84Lacs | | | | | |
| First year other savings, Rs.: | | | | | |
| On annual basis | kWh 000' | Coal (Tons) | Gas Nm³ | Oil (kL) | Other |
| Energy consumption before | 432000 | NA | NA | NA | NA |
| Energy consumption after | 364417 | NA | NA | NA | NA |
| Energy tariff, Rs/ kWh | 4.208 | NA | NA | NA | NA |
| Company complete address: Rishab spinning Mills, (Prop. Nahar Spinning Mills Ltd.) Pakhawal Road, Vill. : JODHAN, Distt. : Ludhiana (Punjab) Pin - 142029 | | | | We authorise Bureau to use this information for dissemination | |
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| | | | | | |
|---|---|------------------------|---|---|--------------|
| ID to be filled by BEE | Title of the measure Installation of Nestling Crafting Stop motion on Speed Frame | | Sector Textile | | |
| Year to be filled by BEE | | | Technology | | |
| Description of the energy conservation measure: We Installed Electronic Roving break stop motion there by stopping the pneumafill fans on 14 Speed frames, which resulted in saving of power. | | | | | |
| 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.: 1.071 Lacs | | | Year of implementation:2007-08 | | |
| First year energy cost savings, Rs.: 9.453 Lacs | | | | | |
| First year other savings, Rs.: | | | | | |
| On annual basis | kWh 000' | Coal (Tons) | Gas Nm³ | Oil (kL) | Other |
| Energy consumption before | 22460 | NA | NA | NA | NA |
| Energy consumption after | 0 | NA | NA | NA | NA |
| Energy tariff, Rs/ kWh | 4.208 | NA | NA | NA | NA |
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|--|--|------------------------|---|---|--------------|
| ID to be filled by BEE | Title of the measure | | Sector Textile | | |
| Year to be filled by BEE | Modification in waste recovery system | | Technology | | |
| Description of the energy conservation measure: In order to reduce the back air pressure we installed Disc filter which resulted in reduction of power consumption | | | | | |
| 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.: 0.3 (Lacs) | | | Year of implementation: | | |
| First year energy cost savings, Rs.: 1.37 Lacs | | | | | |
| First year other savings, Rs.: | | | | | |
| On annual basis | kWh 000' | Coal (Tons) | Gas Nm³ | Oil (kL) | Other |
| Energy consumption before | 219225 | NA | NA | NA | NA |
| Energy consumption after | 186595 | NA | NA | NA | NA |
| Energy tariff, Rs/ kWh/ | 4.208 | NA | NA | NA | NA |
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|---|--|------------------------|---|---|--------------|
| ID to be filled by BEE | Title of the measure Replacment of Ordinary chokes with Electronic Ballast | | Sector Textile | | |
| Year to be filled by BEE | | | Technology | | |
| Description of the energy conservation measure: Replaced ordinary chokes with electronic ballast to save energy. | | | | | |
| Picture/ sketch/ drawing before modification (if available) | | | Picture/ sketch/ drawing after modification | | |
|  | | |  | | |
| Agency that executed the project (with complete address and email): PHILIPS | | | | | |
| Total investment, Rs.:1.603 (Lacs) | | | Year of implementation:2007-08 | | |
| First year energy cost savings Rs.: 2.33 Lacs | | | | | |
| First year other savings, Rs.: | | | | | |
| On annual basis | kWh 000' | Coal (Tons) | Gas Nm³ | Oil (kL) | Other |
| Energy consumption before | 61015.6 | NA | NA | NA | NA |
| Energy consumption after | 55469 | NA | NA | NA | NA |
| Energy tariff, Rs/ kWh | 4.208 | NA | NA | NA | NA |
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|---|--|------------------------|---|---|--------------|
| ID to be filled by BEE | Title of the measure Modification in Humidification Plant. | | Sector Textile | | |
| Year to be filled by BEE | | | Technology | | |
| Description of the energy conservation measure: We have installed 24 supply air fans and 24 Return Air Fans initially in the year 1991 when the mills became operational the supply as well as return air fans were located at the ground floor. We observed that supply air fan were confronting with load of Air fans and reduction in the air efficiency .We have shifted 16 supply air fans and mounted them at first floor which increase the efficiency of fans and supplied the same mount of air as 24 fans matching the capacity of air. We were able to stop 8 supply air fans and 4 air return fans keeping the same ambient condition with regard temperature and humidification of the spinning hall. | | | | | |
| 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.: 2.0 Lacs | | | Year of implementation: 2008 | | |
| First year energy cost savings, Rs.: 74.169 Lacs | | | | | |
| First year other savings, Rs.: | | | | | |
| On annual basis | kWh 000' | Coal (Tons) | Gas Nm³ | Oil (kL) | Other |
| Energy consumption before | 5348160 | NA | NA | NA | NA |
| Energy consumption after | 3585600 | NA | NA | NA | NA |
| Energy tariff, Rs/ kWh | 4.208 | NA | NA | NA | NA |
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|---|---|------------------------|---|---|--------------|
| ID to be filled by BEE | <u>Title of the measure</u> | Sector Textile | | | |
| Year to be filled by BEE | Intermittent mode of movement of empty tube conveyer | Technology | | | |
| Description of the energy conservation measure: We converted the continuous movement of empty tube conveyor belts by intermittent mode of movement where by we belts were running for 6 minutes only and stopping for 54 minutes in an hour. This resulted not only substantial power saving but also saving in maintenance cost, reduce hard waste and reduce maintenance inputs | | | | | |
| 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.0.44 Lacs | | | Year of implementation:2007 | | |
| First year energy cost savings, Rs. 2.079 Lacs | | | | | |
| First year other savings, Rs.: | | | | | |
| On annual basis | kWh 000' | Coal (Tons) | Gas Nm³ | Oil (kL) | Other |
| Energy consumption before | 54820 | NA | NA | NA | NA |
| Energy consumption after | 5423 | NA | NA | NA | NA |
| Energy tariff, Rs/ kWh | 4.208 | NA | NA | NA | NA |
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|---|--|------------------------|---|---|--------------|
| ID to be filled by BEE | <u>Title of the measure</u> | | Sector Textile | | |
| Year to be filled by BEE | Adopted Speed control system for waste recovery system, instead of damper control | | Technology | | |
| Description of the energy conservation measure: Adopted Speed control system for waste recovery system, instead of damper control | | | | | |
| 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.: Nil | | | Year of implementation:2007 | | |
| First year energy cost savings, Rs.: 37.4Lacs | | | | | |
| First year other savings, Rs.: | | | | | |
| On annual basis | kWh 000' | Coal (Tons) | Gas Nm³ | Oil (kL) | Other |
| Energy consumption before | 2087474 | NA | NA | NA | NA |
| Energy consumption after | 1198692 | NA | NA | NA | NA |
| Energy tariff, Rs/ kWh | 4.208 | NA | NA | NA | NA |
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