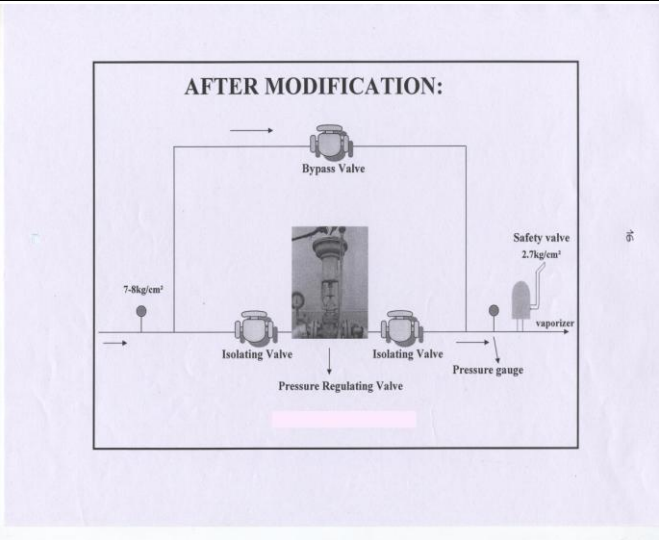


Energy Conservation Measure implemented in 2007-2008

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

| | | | | | |
|--|---|--------------------------------------|------------------|--|-------|
| ID to be filled by BEE | Title of the measure Conservation of energy by controlling excess steam flow in steam lines – Installation of pressure regulating valves | Sector: Steel Re-rolling Mill | | | |
| Year to be filled by BEE | | Technology :Renewable energy source. | | | |
| Description of the energy conservation measure: Steam excess flow and pressure are controlled by providing pressure regulating valves at LPG vapouriser and in canteen. By this modification damaging of vapouriser tube bundles and cooking vessels are avoided. Tripping of reheating furnaces of HRM is also avoided and therein resulting in reduction of LPG consumption at both the places. This saves 36ton of LPG. | | | | | |
| Picture/ sketch/ drawing before modification (if available) | Picture/ sketch/ drawing after modification | | | | |
| Not available |  | | | | |
| Agency that executed the project (with complete address and email): Central Mechanical Maintenance, Salem Steel Plant, Salem 636013. Email: cem@sailssp.in | | | | | |
| Total investment, Rs.: Rs.40000/ | Year of implementation: 2007 | | | | |
| First year energy cost savings, Rs.: 17.28 lakhs | | | | | |
| First year other savings, Rs.: Nil | | | | | |
| On annual basis | kWh 000' | Coal (Tons) | Gas Ton | Oil (kL) | Other |
| Energy consumption before | - | - | - | - | - |
| Energy consumption after | - | - | - | - | - |
| Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ... | - | - | Rs.38817/ ton | - | |
| Company complete address: SAIL/Salem Steel Plant, Salem 636013. Contact person who could be contacted for more information: Dy General Manager (CMM), SAIL/Salem Steel Plant. | | | | We authorize Bureau to use this information for dissemination Signature: Date: | |

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 | Sector: Steel Re-rolling Mill | | | |
| Year to be filled by BEE | Optimization of production process in Annealing and Pickling Line 2 | Technology: Process Optimization | | | |
| <p>Earlier leader end attachments which are required for rolling were attached with the coils before starting of annealing process. These are required to improve the yield of the material processed. However this additional material consumes additional lpg and power during the process. This was analysed and presently the leader ends are attached after AP line processing, thereby reducing LPG and power consumption. This saves 64tons of LPG for APL2 production/annum and power of 12.86 lakh units.</p> | | | | | |
| Picture/ sketch/ drawing before modification (if available) | | | Picture/ sketch/ drawing after modification | | |
| Not applicable | | | Not applicable | | |
| Agency that executed the project (with complete address and email): CRM Operation, Salem Steel Plant, Salem 636013. Email: cem@sailssp.in | | | | | |
| Total investment, Rs.: NIL | | | Year of implementation: 2007 | | |
| First year energy cost savings, Rs.: 62.00 lakhs | | | | | |
| First year other savings, Rs.: Nil | | | | | |
| On annual basis | kWh 000' | Coal (Tons) | Gas Ton | Oil (kL) | Other (Husk) |
| Energy consumption before | - | - | - | - | - |
| Energy consumption after | - | - | - | - | - |
| Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ... | Rs.3.81/ KWH | - | Rs.38817/ ton | - | |
| Company complete address: SAIL/Salem Steel Plant, Salem 636013. Contact person who could be contacted for more information: Dy General Manager (CRM-O), SAIL/Salem Steel Plant. | | | | We authorise Bureau to use this information for dissemination Signature Date | |

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 | Sector: Steel Re-rolling Mill | | | |
| Year to be filled by BEE | Drive optimization during raising of temperature in Annealing and Pickling Line 1 furnace. | Technology :Drive optimization | | | |
| <p>Quench water pump of 55kw capacity was provided in APLine 1 for cooling of the strip during processing. Running of same during the temperature rise up of furnace results in wastage of power. However reduced quantity of water is required to protect the rolls near the furnace during this period. Hence a 11kw pump was installed and run during the raising of temperature of furnace thereby saving considerable electrical energy.</p> <p>Investment - Rs.0.5 Lakhs Energy saved - 0.34 Lakhs KWH Money saved - Rs.1.29 Lakhs</p> | | | | | |
| Picture/ sketch/ drawing before modification (if available) | | | Picture/ sketch/ drawing after modification | | |
| Not applicable | | | Not applicable | | |
| Agency that executed the project (with complete address and email): CRM Electrical Maintenance, Salem Steel Plant, Salem 636013. Email: cem@sailssp.in | | | | | |
| Total investment, Rs.: 0.5 lakhs | | | Year of implementation: 2007 | | |
| First year energy cost savings, Rs.: 1.29 lakhs | | | | | |
| First year other savings, Rs.: Nil | | | | | |
| On annual basis | kWh 000' | Coal (Tons) | Gas Nm ³ | Oil (kL) | Other (Husk) |
| Energy consumption before | - | - | - | - | - |
| Energy consumption after | - | - | - | - | - |
| Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ... | Rs.3.81/ kwh | - | - | - | - |
| Company complete address: SAIL/Salem Steel Plant, Salem 636013. Contact person who could be contacted for more information: Asst General Manager (CRM-E), SAIL/Salem Steel Plant. | | | | We authorize Bureau to use this information for dissemination 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 Installation of Hydraulic Power Pack | Sector: Steel Re-rolling Mill |
| Year to be filled by BEE | | Technology :Drive optimizaiton |
| <p>Hot Rolling Mill Down coiler is provided with 32 nos of AC run out table motors of 5.5kw each. These motors were always in running condition in order to save the rolls near steckel furnace. All these rolls were run from a single source. As such only 10 rolls need to be run which are near the furnace. A separate inverter was provided by separating these rolls from the existing group. Remaining 22 rolls run during the coiling operation alongwith these 10 rolls thereby saving electrical energy.</p> <p>Investment - Rs.14.0 Lakhs Energy saved - 3.23 Lakhs KWH Money saved - Rs.12.30 Lakhs</p> | | |
| Picture/ sketch/ drawing before modification (if available) | | Picture/ sketch/ drawing after modification |
| Not applicable | | Not applicable |
| Agency that executed the project (with complete address and email): HRM Electrical Maintenance, Salem Steel Plant, Salem 636013. Email: cem@sailssp.in | | |
| Total investment, Rs.: 14.0 Lakhs | | Year of implementation: 2007 |
| First year energy cost savings, Rs.: 12.3 lakhs | | |
| First year other savings, Rs.: Nil | | |
| On annual basis | kWh 000' | Coal (Tons) |
| Energy consumption before | - | - |
| Energy consumption after | - | - |
| Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ... | - | - |
| Company complete address: SAIL/Salem Steel Plant, Salem 636013. Contact person who could be contacted for more information: Dy General Manager (HRM-E), SAIL/Salem Steel Plant. | | We authorize Bureau to use this information for dissemination Signature: Date: |