







## Energy Conservation Measure implemented in 2006-2007

|   |  |                      |                        |   |       |
|---|--|----------------------|------------------------|---|-------|
| ID to be filled by BEE  | Title of the measure<br><b>Stopping of cold store in Pouch, Curd &amp; Paneer section according to production planning</b> | Sector ...Dairy..... |                        |   |       |
| Year to be filled by BEE  |  | Technology .....     |                        |   |       |
| <b>Description of the energy conservation measure:</b><br>Previously, all these cold store were running for whole day.<br><b>Current Status</b><br>Currently, these cold stores are stops for almost 10-12 per day & used as per production schedule. |  |                      |                        |   |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)   | <b>Picture/ sketch/ drawing after modification</b>   |                      |                        |   |       |
|   |   |                      |                        |   |       |
| Agency that executed the project (with complete address and email):   |  |                      |                        |   |       |
| Total investment, Rs.: Nil  | Year of implementation: 2006   |                      |                        |   |       |
| First year energy cost savings, Rs.: 8.46 lakh  |  |                      |                        |   |       |
| First year other savings, Rs:   |  |                      |                        |   |       |
| On annual basis   | kWh<br>000'  | Coal<br>(Tons)       | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)   | Other |
| Energy consumption before   | 169234   |                      |                        |   |       |
| Energy consumption after  | 0  |                      |                        |   |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...   | 5.0  |                      |                        |   |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)               |  |                      |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date: 20 October,2007 |       |



## Energy Conservation Measure implemented in 2006-2007

|  |  |                      |   |   |       |
|--|--|----------------------|---|---|-------|
| ID to be filled by BEE   | Title of the measure<br><b style="color: red;">Use of 100 cfm compressor instead of 325 cfm compressor during cleaning of m/c &amp; plant.</b> | Sector ...Dairy..... |   |   |       |
| Year to be filled by BEE   |  | Technology .....     |   |   |       |
| <b style="color: red;">Description of the energy conservation measure:</b><br>Previously, 325 CFM air compressor was used during cleaning of packing machine & plant. This results in more power consumption<br><b style="color: red;">Current Status</b><br>Presently 100 CFM compressor used instead of 325 CFM compressor |  |                      |   |   |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  |  |                      | <b>Picture/ sketch/ drawing after modification</b>                                  |   |       |
|    |  |                      |  |   |       |
| Agency that executed the project (with complete address and email):  |  |                      |   |   |       |
| Total investment, Rs.: Nil   |  |                      | Year of implementation: 2006  |   |       |
| First year energy cost savings, Rs.: 1.82 Lakhs  |  |                      |   |   |       |
| First year other savings, Rs.:   |  |                      |   |   |       |
| On annual basis  | kWh<br>000'  | Coal<br>(Tons)       | Gas<br>Nm <sup>3</sup>  | Oil<br>(kL)   | Other |
| Energy consumption before  | 0.364  |                      |   |   |       |
| Energy consumption after   | 0  |                      |   |   |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...  | 5.0  |                      |   |   |       |
| Company complete address:<br>Surat District Cooperative Milk Producers' Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)   |  |                      |   | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date- 20 October,2007 |       |


## Energy Conservation Measure implemented in 2006-2007

|  |   |                            |                        |   |       |
|--|---|----------------------------|------------------------|---|-------|
| ID to be filled by BEE   | Title of the measure<br><b style="color: red;">Installation of four nos. 1 hp geared motor in chain conveyer instead of 3.5 hp motor in milk packing section.</b> | Sector ...Dairy.....       |                        |   |       |
| Year to be filled by BEE   |   | Technology Indigenous..... |                        |   |       |
| <b style="color: red;">Description of the energy conservation measure:</b><br>Previously 3.5 HP motors used & run almost 16 hours per day.<br><b style="color: red;">Current Status</b><br>Two 3.5 HP motors are replaced with 1 HP motor with the same out put. |   |                            |                        |   |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  | <b>Picture/ sketch/ drawing after modification</b>  |                            |                        |   |       |
|    |    |                            |                        |   |       |
| Agency that executed the project (with complete address and email):  |   |                            |                        |   |       |
| Total investment, Rs.: 74080   | Year of implementation: 2006  |                            |                        |   |       |
| First year energy cost savings, Rs.: 3.63 Lakhs  |   |                            |                        |   |       |
| First year other savings, Rs.:   |   |                            |                        |   |       |
| On annual basis  | kWh<br>000'   | Coal<br>(Tons)             | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)   | Other |
| Energy consumption before  | 72771   |                            |                        |   |       |
| Energy consumption after   | 0   |                            |                        |   |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL<br>...   | 5.0   |                            |                        |   |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)                          |   |                            |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date: 20 October,2007 |       |



## Energy Conservation Measure implemented in 2006-2007

|  |  |                            |                        |   |       |
|--|--|----------------------------|------------------------|---|-------|
| ID to be filled by BEE   | Title of the measure<br><b style="color: red;">Installation of powerless ventilation &amp; natural exhaust system in store, packing section, sweet section, Paneer, Air compressor, boiler, butter &amp; ghee.</b> | Sector ...Dairy.....       |                        |   |       |
| Year to be filled by BEE   |  | Technology Indigenous..... |                        |   |       |
| <b style="color: red;">Description of the energy conservation measure:</b><br>Previously lights were on in these sections during day time. Also system heat retain in these section due to improper ventilation.<br><b style="color: red;">Current Status</b><br>No day lighting in these section required which save lots of electrical units & provide favorable working atmosphere. |  |                            |                        |   |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  | <b>Picture/ sketch/ drawing after modification</b>   |                            |                        |   |       |
|    |   |                            |                        |   |       |
| Agency that executed the project (with complete address and email):  |  |                            |                        |   |       |
| Total investment, Rs.: 5.77 Lakhs  | Year of implementation: 2006   |                            |                        |   |       |
| First year energy cost savings, Rs.: 1.31 Lakhs  |  |                            |                        |   |       |
| First year other savings, Rs.:   |  |                            |                        |   |       |
| On annual basis  | kWh<br>000'  | Coal<br>(Tons)             | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)   | Other |
| Energy consumption before  | 26200  |                            |                        |   |       |
| Energy consumption after   | 0  |                            |                        |   |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...  | 5.0  |                            |                        |   |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)  |  |                            |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date; 20 October,2007 |       |



## Energy Conservation Measure implemented in 2006-2007

|  |   |                             |                        |   |       |
|--|---|-----------------------------|------------------------|---|-------|
| ID to be filled by BEE   | Title of the measure<br><b>Installation of high speed 6 lit mechanical machine instead of pneumatic machine for milk packing.</b> | Sector ...Dairy.....        |                        |   |       |
| Year to be filled by BEE   |   | Technology ...Indigenous... |                        |   |       |
| <p><b>Description of the energy conservation measure:</b><br/>Previously, Pneumatic machine used which consumed 35 CFM of compressed air.</p> <p><b>Current Status</b><br/>With new machine there is no requirement of air.</p>            |   |                             |                        |   |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  | <b>Picture/ sketch/ drawing after modification</b>  |                             |                        |   |       |
|  |    |                             |                        |   |       |
| Agency that executed the project (with complete address and email):  |   |                             |                        |   |       |
| Total investment, Rs.:7.4 lakh   | Year of implementation: 2006  |                             |                        |   |       |
| First year energy cost savings, Rs:2.72 lakh   |   |                             |                        |   |       |
| First year other savings, Rs:  |   |                             |                        |   |       |
| On annual basis  | kWh<br>000'   | Coal<br>(Tons)              | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)   | Other |
| Energy consumption before  | 54400   |                             |                        |   |       |
| Energy consumption after   | 0   |                             |                        |   |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...  | 5.0   |                             |                        |   |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br><b>GM (Tech.)</b> |   |                             |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date: 20 October,2007 |       |


## Energy Conservation Measure implemented in 2006-2007

|  |   |                               |   |   |       |
|--|---|-------------------------------|---|---|-------|
| ID to be filled by BEE   | <b>Title of the measure</b><br><b>Installation of 3 No. 1 lit PLC based mechanical packing machine instead of pneumatic machine</b> | Sector ...Dairy.....          |   |   |       |
| Year to be filled by BEE   |   | Technology ...Indigenous..... |   |   |       |
| <b>Description of the energy conservation measure:</b><br>Previously, Pneumatic machine runs which consumed 35 cfm of compressed air hence results in more power consumption at air compressor.<br><b>Current Status</b><br>With installation of these machines power consumption at air compressor reduced significantly. |   |                               |   |   |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  |   |                               | <b>Picture/ sketch/ drawing after modification</b>                                  |   |       |
|    |   |                               |  |   |       |
| Agency that executed the project (with complete address and email):  |   |                               |   |   |       |
| Total investment, Rs: 12.0 lakh  |   |                               | Year of implementation: 2006  |   |       |
| First year energy cost savings, Rs:4.08 lakh   |   |                               |   |   |       |
| First year other savings, Rs.:   |   |                               |   |   |       |
| On annual basis  | kWh<br>000'   | Coal<br>(Tons)                | Gas<br>Nm <sup>3</sup>  | Oil<br>(kL)   | Other |
| Energy consumption before  | 81600   |                               |   |   |       |
| Energy consumption after   | 0   |                               |   |   |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...  | 5.0   |                               |   |   |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)  |   |                               |   | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date: 20 October,2007 |       |

## Energy Conservation Measure implemented in 2006-2007

|  |  |                      |                        |   |       |
|--|--|----------------------|------------------------|---|-------|
| ID to be filled by BEE   | Title of the measure<br><b>Replacing cream pasteurizer cooling tower with main cooling tower</b> | Sector ...Dairy..... |                        |   |       |
| Year to be filled by BEE   |  | Technology .....     |                        |   |       |
| <b>Description of the energy conservation measure:</b><br>Previously one 8 hp motor extra was running when cream pasteurizers runs. It cost 682 Rs. Per day.<br><b>Current Status</b><br>Cream pasteurizer replaced with main cooling tower. This is results in saving of huge power |  |                      |                        |   |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  | <b>Picture/ sketch/ drawing after modification</b>   |                      |                        |   |       |
|    |               |                      |                        |   |       |
| Agency that executed the project (with complete address and email):  |  |                      |                        |   |       |
| Total investment, Rs.:0.72   | Year of implementation:2006  |                      |                        |   |       |
| First year energy cost savings, Rs.:2.49   |  |                      |                        |   |       |
| First year other savings, Rs.:   |  |                      |                        |   |       |
| On annual basis  | kWh<br>000'  | Coal<br>(Tons)       | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)   | Other |
| Energy consumption before  | 49822  |                      |                        |   |       |
| Energy consumption after   | 0  |                      |                        |   |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...  | 5.0  |                      |                        |   |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)  |  |                      |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date: 20 October,2007 |       |



## Energy Conservation Measure implemented in 2006-2007

|   |  |                      |                        |   |       |
|---|--|----------------------|------------------------|---|-------|
| ID to be filled by BEE  | Title of the measure<br><b style="color: red;">Installation of power less compressed air dryer in place of refrigerated type dryer</b> | Sector ...Dairy..... |                        |   |       |
| Year to be filled by BEE  |  | Technology .....     |                        |   |       |
| <b style="color: red;">Description of the energy conservation measure:</b><br>Previously one 15 hp motor extra was running when refrigerated type Air dryer runs.<br><b style="color: red;">Current Status</b><br>Currently no extra power required for dryer |  |                      |                        |   |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)   | <b>Picture/ sketch/ drawing after modification</b>   |                      |                        |   |       |
|   |   |                      |                        |   |       |
| Agency that executed the project (with complete address and email):   |  |                      |                        |   |       |
| Total investment, Rs.:2.5 lakh  | Year of implementation:2006  |                      |                        |   |       |
| First year energy cost savings, Rs.: 3.87   |  |                      |                        |   |       |
| First year other savings, Rs.:  |  |                      |                        |   |       |
| On annual basis   | kWh<br>000'  | Coal<br>(Tons)       | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)   | Other |
| Energy consumption before   | 77380  |                      |                        |   |       |
| Energy consumption after  | 0  |                      |                        |   |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...   | 5.0  |                      |                        |   |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)                           |  |                      |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date: 20 October,2007 |       |



## Energy Conservation Measure implemented in 2006-2007

| ID to be filled by BEE   | Title of the measure<br><b style="color: red;">Saving due to regular check of compressed air leakage</b>   | Sector ...Dairy.....  |      |                  |           |      |         |      |         |     |
|--|--|---|------|------------------|-----------|------|---------|------|---------|-----|
| Year to be filled by BEE   |  | Technology .....  |      |                  |           |      |         |      |         |     |
| <b style="color: red;">Description of the energy conservation measure:</b><br>Previously, there was no fix schedule to attend air leakage in plant which results in huge loss to power in air compressor<br><b style="color: red;">Current Status</b><br>Currently, regular check of leakage at user end is done after every fifteen day |  |   |      |                  |           |      |         |      |         |     |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  | <b>Picture/ sketch/ drawing after modification</b>   |   |      |                  |           |      |         |      |         |     |
|  | <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <caption>POWER CONSUMPTION PER DAY IN AIR COMPRESSOR</caption> <thead> <tr> <th>YEAR</th> <th>NO. OF UNITS/DAY</th> </tr> </thead> <tbody> <tr> <td>2004-2005</td> <td>2450</td> </tr> <tr> <td>2005-06</td> <td>1330</td> </tr> <tr> <td>2006-07</td> <td>780</td> </tr> </tbody> </table> |   | YEAR | NO. OF UNITS/DAY | 2004-2005 | 2450 | 2005-06 | 1330 | 2006-07 | 780 |
| YEAR   | NO. OF UNITS/DAY   |   |      |                  |           |      |         |      |         |     |
| 2004-2005  | 2450   |   |      |                  |           |      |         |      |         |     |
| 2005-06  | 1330   |   |      |                  |           |      |         |      |         |     |
| 2006-07  | 780  |   |      |                  |           |      |         |      |         |     |
| Agency that executed the project (with complete address and email):  |  |   |      |                  |           |      |         |      |         |     |
| Total investment, Rs.: Nil   | Year of implementation:2006  |   |      |                  |           |      |         |      |         |     |
| First year energy cost savings, Rs.:0.63 lakh  |  |   |      |                  |           |      |         |      |         |     |
| First year other savings, Rs.:   |  |   |      |                  |           |      |         |      |         |     |
| On annual basis  | kWh<br>000'  | Coal<br>(Tons)  |      |                  |           |      |         |      |         |     |
| Energy consumption before  | 12775  |   |      |                  |           |      |         |      |         |     |
| Energy consumption after   | 0  |   |      |                  |           |      |         |      |         |     |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...  | 5.0  |   |      |                  |           |      |         |      |         |     |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)  |  | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date: 20 October,2007 |      |                  |           |      |         |      |         |     |



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|   |   |                      |                        |   |       |
|---|---|----------------------|------------------------|---|-------|
| ID to be filled by BEE  | Title of the measure<br><b>Replacement of 49 no. ordinary tube light fixture (copper ballast) with new (electronic ballast)</b> | Sector ...Dairy..... |                        |   |       |
| Year to be filled by BEE  |   | Technology .....     |                        |   |       |
| <p><b>Description of the energy conservation measure:</b><br/>Previously, old tube light was consuming 40 watt power per hour.</p> <p><b>Current Status</b><br/>Currently, only 28 watt power per hour consumed in one tube light</p> |   |                      |                        |   |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)   | <b>Picture/ sketch/ drawing after modification</b>  |                      |                        |   |       |
|   |    |                      |                        |   |       |
| Agency that executed the project (with complete address and email):   |   |                      |                        |   |       |
| Total investment, Rs.:0.36 lakh   | Year of implementation:2006   |                      |                        |   |       |
| First year energy cost savings, Rs.: 0.16 lakh  |   |                      |                        |   |       |
| First year other savings, Rs.:  |   |                      |                        |   |       |
| On annual basis   | kWh<br>000'   | Coal<br>(Tons)       | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)   | Other |
| Energy consumption before   | 3219  |                      |                        |   |       |
| Energy consumption after  | 0   |                      |                        |   |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...   | 5.0   |                      |                        |   |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008   |   |                      |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date: 20 October,2007 |       |
| Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)  |   |                      |                        |   |       |



## Energy Conservation Measure implemented in 2006-2007

|  |  |                      |                        |   |       |
|--|--|----------------------|------------------------|---|-------|
| ID to be filled by BEE   | Title of the measure<br><b style="color: red;">Replacement of 69 no. ordinary tube light with electronic blast for 4' tube light</b> | Sector ...Dairy..... |                        |   |       |
| Year to be filled by BEE   |  | Technology .....     |                        |   |       |
| <b style="color: red;">Description of the energy conservation measure:</b><br>Previously, old tube light was consuming 58 watt power per hour.<br><b style="color: red;">Current Status</b><br>Currently, only 28 watt power per hour consumed in one tube light |  |                      |                        |   |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  | <b>Picture/ sketch/ drawing after modification</b>   |                      |                        |   |       |
|    |   |                      |                        |   |       |
| Agency that executed the project (with complete address and email):  |  |                      |                        |   |       |
| Total investment, Rs.:0.28 lakh  | Year of implementation:2006  |                      |                        |   |       |
| First year energy cost savings, Rs:0.377 lakh  |  |                      |                        |   |       |
| First year other savings, Rs.:   |  |                      |                        |   |       |
| On annual basis  | kWh<br>000'  | Coal<br>(Tons)       | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)   | Other |
| Energy consumption before  | 7555   |                      |                        |   |       |
| Energy consumption after   | 0  |                      |                        |   |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...  | 5.0  |                      |                        |   |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008  |  |                      |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date: 20 October,2007 |       |
| Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)   |  |                      |                        |   |       |



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|  |   |                            |                        |   |       |
|--|---|----------------------------|------------------------|---|-------|
| ID to be filled by BEE   | Title of the measure<br><b style="color: red;">Replacement of 131 no. 150 watt mercury light dome with 80 watt HPMV white light with lamp</b> | Sector ...Dairy.....       |                        |   |       |
| Year to be filled by BEE   |   | Technology Indigenous..... |                        |   |       |
| <b style="color: red;">Description of the energy conservation measure:</b><br>Previously, old light of 150 watt are consuming more power. Replaced with new 80 watt HPMV white light<br><b style="color: red;">Current Status</b><br>Currently, 80 watt white light with lamp are used |   |                            |                        |   |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  | <b>Picture/ sketch/ drawing after modification</b>  |                            |                        |   |       |
|    |    |                            |                        |   |       |
| Agency that executed the project (with complete address and email):  |   |                            |                        |   |       |
| Total investment, Rs.:1.76 lakh  | Implementation year: 2006   |                            |                        |   |       |
| First year energy cost savings, Rs: 1.67 lakh  |   |                            |                        |   |       |
| First year other savings, Rs.:   |   |                            |                        |   |       |
| On annual basis  | kWh<br>000'   | Coal<br>(Tons)             | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)   | Other |
| Energy consumption before  | 33470   |                            |                        |   |       |
| Energy consumption after   | 0   |                            |                        |   |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...  | 5.0   |                            |                        |   |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)  |   |                            |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date: 20 October,2007 |       |



## Energy Conservation Measure implemented in 2006-2007

|  |   |                            |   |   |       |
|--|---|----------------------------|---|---|-------|
| ID to be filled by BEE   | Title of the measure<br><b style="color: red;">Installation of 6 No. 3 hp energy efficient pump in place of 3.5 hp pump</b> | Sector ...Dairy.....       |   |   |       |
| Year to be filled by BEE   |   | Technology...Indigenous... |   |   |       |
| <b style="color: red;">Description of the energy conservation measure:</b><br>Previously, 3.5 hp pump were used which consuming around 0.75 amp more.<br><b style="color: red;">Current Status</b><br>Replaced with 6 no. 3 hp new energy efficient pump |   |                            |   |   |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  |   |                            | <b>Picture/ sketch/ drawing after modification</b>                                  |   |       |
|    |   |                            |  |   |       |
| Agency that executed the project (with complete address and email):  |   |                            |   |   |       |
| Total investment, Rs.:2.19 lakh  |   |                            | Year of implementation: 2006  |   |       |
| First year energy cost savings, Rs.: 0.54  |   |                            |   |   |       |
| First year other savings, Rs.:   |   |                            |   |   |       |
| On annual basis  | kWh<br>000'   | Coal<br>(Tons)             | Gas<br>Nm <sup>3</sup>  | Oil<br>(kL)   | Other |
| Energy consumption before  | 10950   |                            |   |   |       |
| Energy consumption after   | 0   |                            |   |   |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...  | 5.0   |                            |   |   |       |
| Company complete address:<br><b>Surat District Cooperative Milk Producers Union Ltd.</b><br>PO Box-501,<br>Sumul Dairy Surat<br>395008   |   |                            |   | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date: 20 October,2007 |       |
| Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)   |   |                            |   |   |       |



## Energy Conservation Measure implemented in 2006-2007

|  |  |                               |   |   |       |
|--|--|-------------------------------|---|---|-------|
| ID to be filled by BEE   | Title of the measure<br><b>Use of booster pump during separation of milk in milk pasteurizer to enhance the capacity</b> | Sector ...Dairy.....          |   |   |       |
| Year to be filled by BEE   |  | Technology ...Indigenous..... |   |   |       |
| <p><b>Description of the energy conservation measure:</b><br/>Previously capacity of pasteurizer comes 18000 lit per hours</p> <p><b>Current Status</b><br/>Currently capacity has increased to 25000 lit per hours with separators.</p> |  |                               |   |   |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  |  |                               | <b>Picture/ sketch/ drawing after modification</b>                                  |   |       |
|    |  |                               |  |   |       |
| Agency that executed the project (with complete address and email):  |  |                               |   |   |       |
| Total investment, Rs.: Nil   |  |                               | Year of implementation: 2006  |   |       |
| First year energy cost savings, Rs.: 3.04 lakh   |  |                               |   |   |       |
| First year other savings, Rs.:   |  |                               |   |   |       |
| On annual basis  | kWh<br>000'  | Coal<br>(Tons)                | Gas<br>Nm <sup>3</sup>  | Oil<br>(kL)   | Other |
| Energy consumption before  | 60955  |                               |   |   |       |
| Energy consumption after   | 0  |                               |   |   |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...  | 5.0  |                               |   |   |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)  |  |                               |   | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date: 20 October,2007 |       |


## Energy Conservation Measure implemented in 2006-2007

|   |   |                               |                        |   |       |
|---|---|-------------------------------|------------------------|---|-------|
| ID to be filled by BEE  | Title of the measure<br><b>Capacity enhancement of butter milk pasteurizer from 8000 to 20000 lit per hours by using 20 kl homogenizer.</b> | Sector ...Dairy.....          |                        |   |       |
| Year to be filled by BEE  |   | Technology .....Imported..... |                        |   |       |
| <p><b>Description of the energy conservation measure:</b><br/>Previously, capacity of butter milk plant was around 10 kl after using two homogenizers of 100 hp &amp; 125 hp with capacity of 10000 lit per hour</p> <p><b>Current Status</b><br/>Currently, with installation of 20 kl homogenizer of 150 hp capacity has enhanced to 20 kl per hour</p> |   |                               |                        |   |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)   | <b>Picture/ sketch/ drawing after modification</b>  |                               |                        |   |       |
|   |    |                               |                        |   |       |
| Agency that executed the project (with complete address and email):   |   |                               |                        |   |       |
| Total investment, Rs.:0.5 lakh  | Year of implementation: 2006  |                               |                        |   |       |
| First year energy cost savings, Rs: 10.19 lakh  |   |                               |                        |   |       |
| First year other savings, Rs:   |   |                               |                        |   |       |
| On annual basis   | kWh<br>000'   | Coal<br>(Tons)                | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)   | Other |
| Energy consumption before   | 203873  |                               |                        |   |       |
| Energy consumption after  | 0   |                               |                        |   |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...   | 5.0   |                               |                        |   |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008   |   |                               |                        | We authorize Bureau to use this information for dissemination |       |
| Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)  |   |                               |                        | Signature   |       |
|   |   |                               |                        | Date 20 October,2007  |       |


## Energy Conservation Measure implemented in 2006-2007

|  |   |   |                        |  |       |
|--|---|---|------------------------|--|-------|
| ID to be filled by BEE   | Title of the measure<br><b style="color: red;">Stopping of 12.5 hp exhaust motor of cyclone separator-2 &amp; 0.75 hp rotary valve motor of powder plant with reduction in stack losses</b> | Sector ...Dairy.....  |                        |  |       |
| Year to be filled by BEE   |   | Technology .....  |                        |  |       |
| <p><b>Description of the energy conservation measure:</b><br/>                 Previously, two cyclone separators were run in powder plant and also stack losses was high.</p> <p><b>Current Status</b><br/>                 Currently, one cyclone separator is in use which results in power saving as well as in reduction of stack losses.</p> |   |   |                        |  |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  |   | <b>Picture/ sketch/ drawing after modification</b>                                  |                        |  |       |
|    |   |  |                        |  |       |
| Agency that executed the project (with complete address and email):  |   |   |                        |  |       |
| Total investment, Rs.: Nil   |   | Year of implementation: 2006  |                        |  |       |
| First year energy cost savings, Rs.:1.77   |   |   |                        |  |       |
| First year other savings, Rs.:   |   |   |                        |  |       |
| On annual basis  | kWh<br>000'   | Coal<br>(Tons)  | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)  | Other |
| Energy consumption before  | 35350   |   |                        |  |       |
| Energy consumption after   | 0   |   |                        |  |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...  | 5.0   |   |                        |  |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)  |   |   |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date 20 October,2007 |       |


## Energy Conservation Measure implemented in 2006-2007

|   |   |                      |   |  |       |
|---|---|----------------------|---|--|-------|
| ID to be filled by BEE  | Title of the measure<br><b>Insulation of 265 mt length of milk cold lines</b> | Sector ...Dairy..... |   |  |       |
| Year to be filled by BEE  |   | Technology .....     |   |  |       |
| <p><b>Description of the energy conservation measure:</b><br/>Previously, refrigeration load was higher due to energy loss</p> <p><b>Current Status</b><br/>Currently, 265 mt length insulation done to save heat loss</p>              |   |                      |   |  |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)   |   |                      | <b>Picture/ sketch/ drawing after modification</b>                                  |  |       |
|   |   |                      |  |  |       |
| Agency that executed the project (with complete address and email):   |   |                      |   |  |       |
| Total investment, Rs.:4.14  |   |                      | Year of implementation: 2006  |  |       |
| First year energy cost savings, Rs:2.02   |   |                      |   |  |       |
| First year other savings, Rs.:  |   |                      |   |  |       |
| On annual basis   | kWh<br>000'   | Coal<br>(Tons)       | Gas<br>Nm <sup>3</sup>  | Oil<br>(kL)  | Other |
| Energy consumption before   | 40540   |                      |   |  |       |
| Energy consumption after  | 0   |                      |   |  |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...   | 5.0   |                      |   |  |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.) |   |                      |   | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date 20 October,2007 |       |


## Energy Conservation Measure implemented in 2006-2007

|   |   |                      |                        |  |       |
|---|---|----------------------|------------------------|--|-------|
| ID to be filled by BEE  | Title of the measure<br><b style="color: red;">Decrease in pasteurizer temperature from 78.5 to 77.5 °C</b> | Sector ...Dairy..... |                        |  |       |
| Year to be filled by BEE  |   | Technology .....     |                        |  |       |
| <b style="color: red;">Description of the energy conservation measure:</b><br>Previously pasteurizer were run at 78.5 °C<br><b style="color: red;">Current status:</b><br>Decrease in pasteurizer temperature by 1 °C. less steam & power consumption |   |                      |                        |  |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)   | <b>Picture/ sketch/ drawing after modification</b>  |                      |                        |  |       |
|   |                          |                      |                        |  |       |
| Agency that executed the project (with complete address and email):   |   |                      |                        |  |       |
| Total investment, Rs.:Nil   | Year of implementation: 2006  |                      |                        |  |       |
| First year energy cost savings, Rs:7.3 lakh   |   |                      |                        |  |       |
| First year other savings, Rs.:  |   |                      |                        |  |       |
| On annual basis   | kWh<br>000'   | Coal<br>(Tons)       | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)  | Other |
| Energy consumption before   | 93440   |                      | 73000                  |  |       |
| Energy consumption after  | 0   |                      | 0                      |  |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...   | 4.67  |                      | 9.98                   |  |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)               |   |                      |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date 20 October,2007 |       |


## Energy Conservation Measure implemented in 2006-2007

|   |   |                          |   |  |       |
|---|---|--------------------------|---|--|-------|
| ID to be filled by BEE  | Title of the measure<br><b style="color: red;">Installation of PRS station for ghee section</b> | Sector ...Dairy.....     |   |  |       |
| Year to be filled by BEE  |   | Technology Indigenous... |   |  |       |
| <b style="color: red;">Description of the energy conservation measure:</b><br>Previously 6 kg steam pressure was maintained.    |   |                          |   |  |       |
| <b style="color: red;">Current status:</b><br>Steam consumption reduced as steam pressure reduced to 3.0 KG                     |   |                          |   |  |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)   |   |                          | <b>Picture/ sketch/ drawing after modification</b>                                  |  |       |
|   |   |                          |  |  |       |
| Agency that executed the project (with complete address and email):   |   |                          |   |  |       |
| Total investment, Rs.: .912 lakh  |   |                          | Year of implementation: 2006  |  |       |
| First year energy cost savings, Rs:3.65   |   |                          |   |  |       |
| First year other savings, Rs.:  |   |                          |   |  |       |
| On annual basis   | kWh<br>000'   | Coal<br>(Tons)           | Gas<br>Nm <sup>3</sup>  | Oil<br>(kL)  | Other |
| Energy consumption before   |   |                          | 36500   |  |       |
| Energy consumption after  |   |                          | 0   |  |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...   |   |                          | 9.98  |  |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008 |   |                          |   | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date 20 October,2007 |       |
| Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)                                |   |                          |   |  |       |

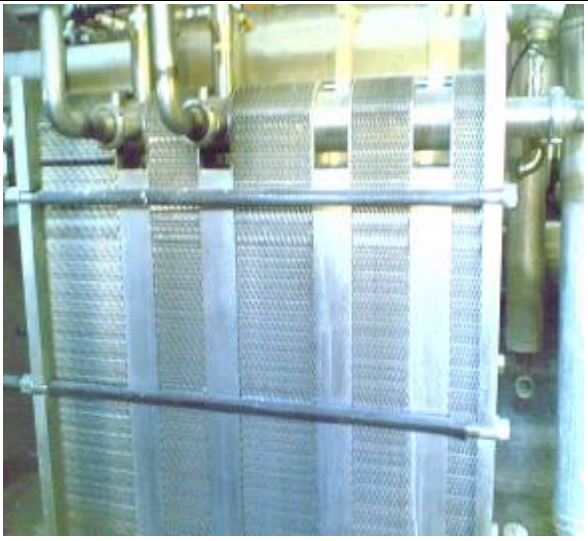

## Energy Conservation Measure implemented in 2006-2007

|  |   |                             |                        |  |       |
|--|---|-----------------------------|------------------------|--|-------|
| ID to be filled by BEE   | Title of the measure<br><b style="color: red;">Installation of PID control valve for hot water supply to milk pasteurizer. (temp. control loop)</b> | Sector ...Dairy.....        |                        |  |       |
| Year to be filled by BEE   |   | Technology ...Indigenous... |                        |  |       |
| <b style="color: red;">Description of the energy conservation measure:</b><br>Previously continuously steam is supplied to hot water system. This causes huge heat energy loss.<br><b style="color: red;">Current Status</b><br>With the installation of PID control valve Steam flow is reduced to almost 60 %. |   |                             |                        |  |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  | <b>Picture/ sketch/ drawing after modification</b>  |                             |                        |  |       |
|  |    |                             |                        |  |       |
| Agency that executed the project (with complete address and email):  |   |                             |                        |  |       |
| Total investment, Rs.:2.13 lakh  | Year of implementation: 2006  |                             |                        |  |       |
| First year energy cost savings, Rs:2.92  |   |                             |                        |  |       |
| First year other savings, Rs.:   |   |                             |                        |  |       |
| On annual basis  | kWh<br>000'   | Coal<br>(Tons)              | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)  | Other |
| Energy consumption before  |   |                             | 29200                  |  |       |
| Energy consumption after   |   |                             | 0                      |  |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...  |   |                             | 9.98                   |  |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)  |   |                             |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date 20 October,2007 |       |


## Energy Conservation Measure implemented in 2006-2007

|  |   |                               |                        |  |       |
|--|---|-------------------------------|------------------------|--|-------|
| ID to be filled by BEE   | Title of the measure<br><b style="color: red;">Installation of PID control valve for hot water supply to Paneer PHE. (temp. control loop)</b> | Sector ...Dairy.....          |                        |  |       |
| Year to be filled by BEE   |   | Technology ...Indigenous..... |                        |  |       |
| <b style="color: red;">Description of the energy conservation measure:</b><br>Previously continuously steam is supplied to hot water system with 100 % valve opening. This causes huge heat energy loss.<br><b style="color: red;">Current Status</b><br>With the installation of PID control valve Steam flow is reduced significantly. |   |                               |                        |  |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  | <b>Picture/ sketch/ drawing after modification</b>  |                               |                        |  |       |
|  |    |                               |                        |  |       |
| Agency that executed the project (with complete address and email):  |   |                               |                        |  |       |
| Total investment, Rs:0.42 lakh   | Year of implementation: 2006  |                               |                        |  |       |
| First year energy cost savings, Rs:0.873 lakh  |   |                               |                        |  |       |
| First year other savings, Rs.:   |   |                               |                        |  |       |
| On annual basis  | kWh<br>000'   | Coal<br>(Tons)                | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)  | Other |
| Energy consumption before  |   |                               | 8738                   |  |       |
| Energy consumption after   |   |                               | 0                      |  |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...  |   |                               | 9.98                   |  |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)  |   |                               |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date 20 October,2007 |       |



## Energy Conservation Measure implemented in 2006-2007

|   |   |                        |                        |  |       |
|---|---|------------------------|------------------------|--|-------|
| ID to be filled by BEE  | Title of the measure<br><b style="color: red;">Installation of 80 % regeneration efficiency cream pasteurizer in place of 50 % regeneration efficiency.</b> | Sector ...Dairy.....   |                        |  |       |
| Year to be filled by BEE  |   | Technology ...Imported |                        |  |       |
| <b style="color: red;">Description of the energy conservation measure:</b><br>Old cream pasteurizer was having very low regeneration efficiency<br><b style="color: red;">Current Status</b><br>With installation of new 80 % cream pasteurizer there is huge saving of thermal energy. |   |                        |                        |  |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)   | <b>Picture/ sketch/ drawing after modification</b>  |                        |                        |  |       |
|   |    |                        |                        |  |       |
| Agency that executed the project (with complete address and email):   |   |                        |                        |  |       |
| Total investment, Rs.:6.5 lakh  | Year of implementation:2006   |                        |                        |  |       |
| First year energy cost savings, Rs.:4.44 lakh   |   |                        |                        |  |       |
| First year other savings, Rs.:  |   |                        |                        |  |       |
| On annual basis   | kWh<br>000'   | Coal<br>(Tons)         | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)  | Other |
| Energy consumption before   |   |                        | 44475                  |  |       |
| Energy consumption after  |   |                        | 0                      |  |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...   |   |                        | 9.98                   |  |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br><b>GM (Tech.)</b>  |   |                        |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date 20 October,2007 |       |


## Energy Conservation Measure implemented in 2006-2007

|   |   |                               |                        |  |       |
|---|---|-------------------------------|------------------------|--|-------|
| ID to be filled by BEE  | Title of the measure<br><b style="color: red;">Installation of PRV in Paneer section to reduce pressure from 5 kg to 3 kg</b> | Sector ...Dairy.....          |                        |  |       |
| Year to be filled by BEE  |   | Technology .....Indigenous... |                        |  |       |
| <b style="color: red;">Description of the energy conservation measure:</b><br>Previously 5 kg steam pressure was maintained in Paneer section<br><b style="color: red;">Current Status</b><br>With the installation of PRV the steam pressure is reduced from 5 kg to 3 kg. |   |                               |                        |  |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)   | <b>Picture/ sketch/ drawing after modification</b>  |                               |                        |  |       |
|   |    |                               |                        |  |       |
| Agency that executed the project (with complete address and email):   |   |                               |                        |  |       |
| Total investment, Rs: 0.15 lakh   |   | Year of implementation: 2006  |                        |  |       |
| First year energy cost savings, Rs:2.91 lakh  |   |                               |                        |  |       |
| First year other savings, Rs.:  |   |                               |                        |  |       |
| On annual basis   | kWh<br>000'   | Coal<br>(Tons)                | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)  | Other |
| Energy consumption before   |   |                               | 29100                  |  |       |
| Energy consumption after  |   |                               | 0                      |  |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...   |   |                               | 9.98                   |  |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)                                     |   |                               |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date 20 October,2007 |       |

## Energy Conservation Measure implemented in 2006-2007

|  |   |                      |   |  |       |
|--|---|----------------------|---|--|-------|
| ID to be filled by BEE   | Title of the measure<br><b>Replacement of 5 no. 1/2" &amp; 3 no. 3/4" steam traps</b> | Sector ...Dairy..... |   |  |       |
| Year to be filled by BEE   |   | Technology .....     |   |  |       |
| <p><b>Description of the energy conservation measure:</b><br/>Previously, old traps were causing steam loss &amp; more condensation in steam line</p> <p><b>Current Status</b><br/>With installation of new traps in steam line steam loss has reduced</p> |   |                      |   |  |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  |   |                      | <b>Picture/ sketch/ drawing after modification</b>                                  |  |       |
|    |   |                      |  |  |       |
| Agency that executed the project (with complete address and email):  |   |                      |   |  |       |
| Total investment, Rs.:0.119 lakh   |   |                      | Year of implementation:2006   |  |       |
| First year energy cost savings, Rs.:3.29 lakh  |   |                      |   |  |       |
| First year other savings, Rs.:   |   |                      |   |  |       |
| On annual basis  | kWh<br>000'   | Coal<br>(Tons)       | Gas<br>Nm <sup>3</sup>  | Oil<br>(kL)  | Other |
| Energy consumption before  |   |                      | 29963   |  |       |
| Energy consumption after   |   |                      | 0   |  |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...  |   |                      | 9.98  |  |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)                        |   |                      |   | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date 20 October,2007 |       |

## Energy Conservation Measure implemented in 2006-2007

|   |  |                      |   |  |       |
|---|--|----------------------|---|--|-------|
| ID to be filled by BEE  | Title of the measure<br><b>Hot insulation of 215 Rmtr steam line</b> | Sector ...Dairy..... |   |  |       |
| Year to be filled by BEE  |  | Technology .....     |   |  |       |
| <p><b>Description of the energy conservation measure:</b><br/>Previously, hot insulation was damaged at few places &amp; also it has removed at some places.</p> <p><b>Current Status</b><br/>Currently, all steam lines is insulated properly.</p> |  |                      |   |  |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)   |  |                      | <b>Picture/ sketch/ drawing after modification</b>                                  |  |       |
|   |  |                      |  |  |       |
| Agency that executed the project (with complete address and email):   |  |                      |   |  |       |
| Total investment, Rs.:0.88 lakh   |  |                      | Year of implementation: 2006  |  |       |
| First year energy cost savings, Rs:3.54 lakh  |  |                      |   |  |       |
| First year other savings, Rs.:  |  |                      |   |  |       |
| On annual basis   | kWh<br>000'  | Coal<br>(Tons)       | Gas<br>Nm <sup>3</sup>  | Oil<br>(kL)  | Other |
| Energy consumption before   |  |                      | 32178   |  |       |
| Energy consumption after  |  |                      | 0   |  |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...   |  |                      | 9.98  |  |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)             |  |                      |   | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date 20 October,2007 |       |

## Energy Conservation Measure implemented in 2006-2007

|                          |   |                      |
|--------------------------|---|----------------------|
| ID to be filled by BEE   | Title of the measure<br><b>In house development of new oracle based software for optimization of transportation cost of milk.</b> | Sector ...Dairy..... |
| Year to be filled by BEE |   | Technology .....     |

**Description of the energy conservation measure:**

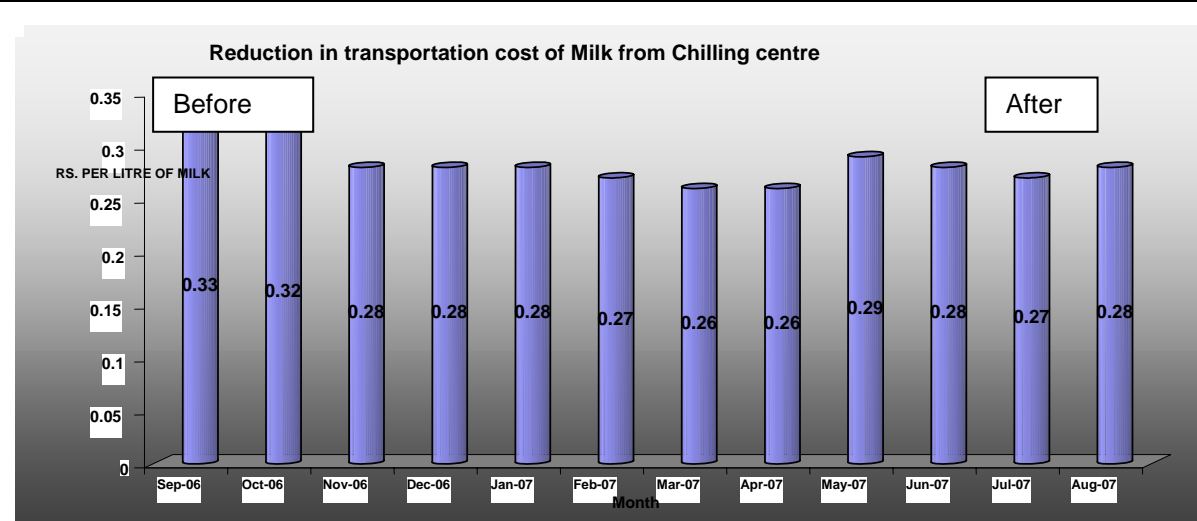
Previously, full capacity of tanker were not utilized

**Current Status**

After installation of oracle based system for monitoring of tanker capacity. All tanker comes with full capacity. Transport cost come down to 0.27 Rs. Per lit.

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: 2006

First year energy cost savings, Rs.: 55.0

First year other savings, Rs.:

| On annual basis                                       | kWh<br>000' | Coal<br>(Tons) | Gas<br>Nm <sup>3</sup> | Diesel Oil<br>(kL) | Other |
|---|-------------|----------------|------------------------|--------------------|-------|
| Energy consumption before                             |             |                |                        | 157142             |       |
| Energy consumption after                              |             |                |                        | 0                  |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ... |             |                |                        | 35                 |       |



Company complete address:  
Surat District Cooperative Milk Producers Union Ltd.  
PO Box-501,  
Sumul Dairy Surat  
395008  
Contact person who could be contacted for more information:  
**AMIT M. VYAS**  
GM (Tech.)

We authorize Bureau to use this information for dissemination


Signature

Date 20 October,2007

## Energy Conservation Measure implemented in 2006-2007

|  |  |                      |                        |  |       |
|--|--|----------------------|------------------------|--|-------|
| ID to be filled by BEE   | Title of the measure<br><b>Installation of state of the art technology ETP plant with USAB digester, carbon filter &amp; softening plant. 100 % recycling of water for floor, crate washer, cleaning gardening</b> | Sector ...Dairy..... |                        |  |       |
| Year to be filled by BEE   |  | Technology .....     |                        |  |       |
| <p><b>Description of the energy conservation measure:</b><br/>Previously all effluent of ETP after treatment is drained in to Municipality gutter.</p> <p><b>Current Status</b><br/>Currently we are using around 1.5 lakh lit. Water from ETP, after treatment &amp; carbon filtration for floor cleaning, Gardening, civil work etc. This results in huge saving of water.</p> |  |                      |                        |  |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  | <b>Picture/ sketch/ drawing after modification</b>   |                      |                        |  |       |
|    |   |                      |                        |  |       |
| Agency that executed the project (with complete address and email):  |  |                      |                        |  |       |
| Total investment, Rs.:56 lakh  | Year of implementation: 2006   |                      |                        |  |       |
| First year energy cost savings, Rs.: 8.21  |  |                      |                        |  |       |
| First year other savings, Rs.:   |  |                      |                        |  |       |
| On annual basis  | kWh<br>000'  | Coal<br>(Tons)       | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)  | Other |
| Energy consumption before  |  |                      |                        |  |       |
| Energy consumption after   |  |                      |                        |  |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL<br>...   |  |                      |                        |  |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)  |  |                      |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date 20 October,2007 |       |

## Energy Conservation Measure implemented in 2006-2007

|  |   |                      |                        |  |       |
|--|---|----------------------|------------------------|--|-------|
| ID to be filled by BEE   | Title of the measure<br><b style="color: red;">Installation of 52 no. solar light at automatic milk collection system</b> | Sector ...Dairy..... |                        |  |       |
| Year to be filled by BEE   |   | Technology .....     |                        |  |       |
| <b style="color: red;">Description of the energy conservation measure:</b><br>Previously, previously these centers were run GSEB lights<br><b style="color: red;">Current Status</b><br>Currently, running computer, fat machine, weighing m/c on solar photovoltaic system saving 4 unit per day AMCS |   |                      |                        |  |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  | <b>Picture/ sketch/ drawing after modification</b>  |                      |                        |  |       |
|  |                                        |                      |                        |  |       |
| Agency that executed the project (with complete address and email):  |   |                      |                        |  |       |
| Total investment, Rs.:12.48  | Year of implementation: 2006  |                      |                        |  |       |
| First year energy cost savings, Rs.:3.64   |   |                      |                        |  |       |
| First year other savings, Rs.:   |   |                      |                        |  |       |
| On annual basis  | kWh<br>000'   | Coal<br>(Tons)       | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)  | Other |
| Energy consumption before  | 72800   |                      |                        |  |       |
| Energy consumption after   | 0   |                      |                        |  |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...  | 5   |                      |                        |  |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)  |   |                      |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date 20 October,2007 |       |

## Energy Conservation Measure implemented in 2006-2007

|   |   |                      |                        |  |       |
|---|---|----------------------|------------------------|--|-------|
| ID to be filled by BEE  | Title of the measure<br>Attending of steam leakage, 12 times packing has changed, 28 times welding done in line to avoid leakage, 38 times glen of valve changed. | Sector ...Dairy..... |                        |  |       |
| Year to be filled by BEE  |   | Technology .....     |                        |  |       |
| <b>Description of the energy conservation measure:</b><br>Previously, loss of steam in steam distribution line<br><b>Current Status</b><br>With regular attaining of line leakage, there is no steam leakage.                           |   |                      |                        |  |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)   | <b>Picture/ sketch/ drawing after modification</b>  |                      |                        |  |       |
|   |   |                      |                        |  |       |
| Agency that executed the project (with complete address and email):   |   |                      |                        |  |       |
| Total investment, Rs.: 0.65   | Year of implementation: 2006  |                      |                        |  |       |
| First year energy cost savings, Rs.:2.46  |   |                      |                        |  |       |
| First year other savings, Rs.:  |   |                      |                        |  |       |
| On annual basis   | kWh<br>000'   | Coal<br>(Tons)       | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)  | Other |
| Energy consumption before   |   |                      | 24640                  |  |       |
| Energy consumption after  |   |                      | 0                      |  |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...   |   |                      | 9.98                   |  |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.) |   |                      |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date 20 October,2007 |       |

## Energy Conservation Measure implemented in 2006-2007

|  |  |                      |                        |  |       |
|--|--|----------------------|------------------------|--|-------|
| ID to be filled by BEE   | Title of the measure<br><b>Thermal heat recovery in refrigeration by cooling ammonia gas from 90 °C to 55 °C &amp; utilizing hot water of 50 °C for crate cleaning</b> | Sector ...Dairy..... |                        |  |       |
| Year to be filled by BEE   |  | Technology .....     |                        |  |       |
| <b>Description of the energy conservation measure:</b><br>Previously, during crate washing simple water & steam was used. This consumes more steam<br><b>Current Status</b><br>Currently, 50 °C water used along with steam. This saves lot of steam |  |                      |                        |  |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  | <b>Picture/ sketch/ drawing after modification</b>   |                      |                        |  |       |
|  |  |                      |                        |  |       |
| Agency that executed the project (with complete address and email):  |  |                      |                        |  |       |
| Total investment, Rs.: Nil   | Year of implementation:2006  |                      |                        |  |       |
| First year energy cost savings, Rs.:0.89   |  |                      |                        |  |       |
| First year other savings, Rs.:   |  |                      |                        |  |       |
| On annual basis  | kWh<br>000'  | Coal<br>(Tons)       | Gas<br>Nm <sup>3</sup> | Oil<br>(kL)  | Other |
| Energy consumption before  |  |                      | 8911                   |  |       |
| Energy consumption after   |  |                      | 0                      |  |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...  |  |                      | 9.98                   |  |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)              |  |                      |                        | We authorize Bureau to use this information for dissemination<br><br>Signature<br><br>Date 20 October,2007 |       |

## Energy Conservation Measure implemented in 2006-2007

|  |  |                      |   |  |       |
|--|--|----------------------|---|--|-------|
| ID to be filled by BEE   | Title of the measure<br><b style="color: red;">Conversion of petrol based tempo<br/>&amp; Auto Rickshaw into CNG based</b> | Sector ...Dairy..... |   |  |       |
| Year to be filled by BEE   |  | Technology .....     |   |  |       |
| <b style="color: red;">Description of the energy conservation measure:</b><br>Previously, petrol was used in auto. This causes less average, higher cost & pollution<br><b style="color: red;">Current Status</b><br>Converted to CNG. This result into higher average & cost saving .It is also pollution free. |  |                      |   |  |       |
| <b>Picture/ sketch/ drawing before modification</b><br>(if available)  |  |                      | <b>Picture/ sketch/ drawing after modification</b>                                  |  |       |
|  |  |                      |  |  |       |
| Agency that executed the project (with complete address and email):  |  |                      |   |  |       |
| Total investment, Rs.: 2.68  |  |                      | Year of implementation:2006   |  |       |
| First year energy cost savings, Rs.:0.16   |  |                      |   |  |       |
| First year other savings, Rs.:   |  |                      |   |  |       |
| On annual basis  | kWh<br>000'  | Coal<br>(Tons)       | Gas<br>Nm <sup>3</sup>  | Diesel Oil<br>(kL)   | Other |
| Energy consumption before  |  |                      |   | 0.457  |       |
| Energy consumption after   |  |                      |   | 0  |       |
| Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...  |  |                      |   | 35   |       |
| Company complete address:<br>Surat District Cooperative Milk Producers Union Ltd.<br>PO Box-501,<br>Sumul Dairy Surat<br>395008<br><br>Contact person who could be contacted for more information:<br><b>AMIT M. VYAS</b><br>GM (Tech.)  |  |                      |   | We authorize Bureau<br>to use this information<br>for dissemination<br><br>Signature<br><br>Date 20 October,2007 |       |