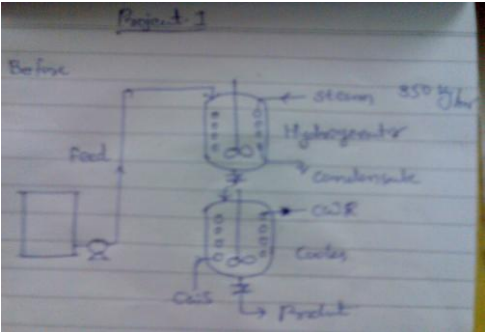
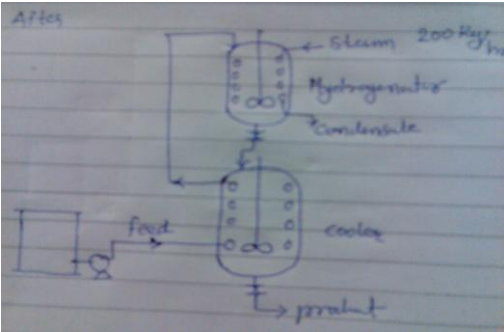
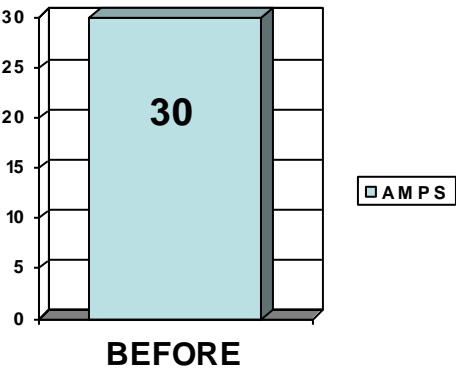
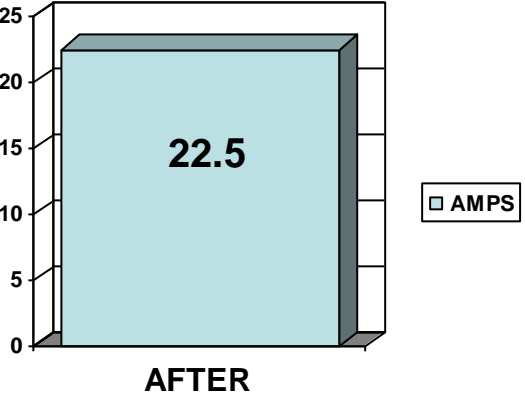


ID to be filled by BEE	Title of the measure HYDROGANATION PROCESS HEAT RECOVERY BY HEAT EXCHANGE BETWEEN FEED & PRODUCT		Sector CONSUMER GOODS		
Year to be filled by BEE			Technology INDIGINOUS		
<p>Description of the energy conservation measure:</p> <ol style="list-style-type: none"> 1. Background – Raw Fatty acid was heated in autoclave from 65 c to 150 c by high press. Steam in hydrogenator & finally hard fatty acid was cooled by cooling water up to 110 c from 180 C. 2. Problem – Approx. 350 kg steam/Mt of hard FA was used for starting hydrogenation reaction and on other side cooling water used to cool the fatty acid. 3. Loss- Energy in the form of steam was loosed for reaction start-up. Energy in the form of power was again utilized for heat rejection from product. 4. Analysis – It was analyzed that the energy can be saved by heat-transfer between raw fatty acid & hard fatty acid. 5. Counter Measure- Process re-routed, Raw fatty acid charging started through cooling coil in cooler vessel where it got heat from previous batch hard fatty acid. 6. Improvement-Raw fatty acid got heated up to 105 C without using steam & then it is heated to 150 C by steam. Hard fatty acid loose temp up to 135 C from 180 C & then it is cooled by Boiler Feed water up to 110 C. No cooling water is required to cool the hard fatty acid. 7. Results-Saving in Steam Consumption – Approx. 150 Kg /Mt of product. Saving in Power consumption – Approx. KVH 10 unit /Mt of product. Saving /Mt (In INR):- (150* .70) + (10 * 5) = Rs.155 /Mt of product. 8.Total Production for year = 6354 Tons 9. Project Cost:-Bypass charging line fabrication Cost: - Rs.25000. 10. Monthly Energy Saving = 984870/12 = Rs.82072 11. Annual Saving: - (FY 2007-08) = 6354 M.T * 155 = Rs.984870 					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): DONE IN HOUSE					
Total investment, Rs: 25000.			Year of implementation: 2007-08		
First year energy cost savings, Rs: 984870					
First year other savings, Rs. 00.00					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other Steam (MT)
Energy consumption before	Not available	N/A	N/A	N/A	2224
Energy consumption after	Not available	N/A	N/A	N/A	1270
Energy tariff, Rs/Ton	5	N/A	N/A	N/A	700
<p>Company complete address: SUNSHINE OLEOCHEM LIMITED, Survey No.217/1 Mithirohar, Gandhidham, Kutch 370201.</p> <p>Contact person who could be contacted for more information: Prakash G.Thitme Ph.No. 02836-286473, 645672/3. Fax.02836-286472 M: 09227745312</p>				<p>We authorized Bureau to use this information for dissemination</p> <p>Signature</p> <p>Date</p>	

ID to be filled by BEE	Title of the measure Hydrogenation Exothermic Heat Recovery Of Reaction.		Sector CONSUMER GOODS		
Year to be filled by BEE			Technology INDIGINOUS		
<p>Description of the energy conservation measure:</p> <p>1. Background – During hydrogenation of Oil & fats, Heat liberated from reaction was rejected by cooling water to maintain desired reaction temperature. (eg.180- 190 C)</p> <p>2. Problem – Hydrogenation reaction needs frequent cooling to control reaction in desired temperature range & it was controlled by cooling water circulation in coil.</p> <p>3.Loss-Heat rejected from reaction, Increases temperature of cooling water, which needs to be cool up to (26 -30 C) This heat can be recovered.</p> <p>4. Analysis – It was analyzed that the energy can be saved by Boiler feed water heating & reaction cooling of Hydrogenation.</p> <p>5. Counter Measure-Cooling tower pump transferred to Boiler feed water tank for use of BFW for cooling in hydrogenator.</p> <p>6. Improvement-Approx 10,000 kcal heat liberated during reaction of 1 Mt fatty acid. Heat of reaction utilized for Boiler Feed water heating which reduces coal consumption of boiler. Saving in terms of Energy (Steam)/Mt = 10000 kcal/640 kcal/kg = 15.6 kg On the other side, cooling tower power consumption reduced by 30%.</p> <p>7. Results-Energy (Steam) Saving/Mt (In Rs.)= 15.6*0.7 = <u>Rs.11</u> Power Saving/Mt (In Rs.) – Approx. 2 unit /Mt of product* Unit Cost = 2* 5 = <u>Rs. 10.</u> Total Saving (In Rs.) = Rs. 21/Mt of product.</p> <p>8. Project Cost: - DM water circulation line from boiler to plant: - Rs. 70000.</p> <p>9. Savings: Avg. Monthly Saving = 133434/12 = Rs.11120 : Annual Saving in FY 2007-08 = 6354 M.T. * 21 = Rs.133434</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
N/A			N/A		
Agency that executed the project (with complete address and email): DONE IN HOUSE					
Total investment, Rs.: 70000.00			Year of implementation: April 2007		
First year energy cost savings, Rs. 133434					
First year other savings, Rs. 00.00					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other Steam (MT)
Energy consumption before	Not available	N/A	N/A	N/A	Not available
Energy consumption after	Not available	N/A	N/A	N/A	Not available
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	N/A	N/A	N/A	1250
Company complete address: SUNSHINE OLEOCHEM LIMITED, Survey No.217/1 Mithirohar, Gandhidham, Kutch 370201. Contact person who could be contacted for more information: Prakash G.Thitme Ph.No. 02836-286473, 645672/3. Fax.02836-286472 M: 09227745312				We authorized Bureau to use this information for dissemination Signature Date	

ID to be filled by BEE	Title of the measure INSTALLATION VFD AT HYDROGANATION PLANT FOR FLAKING MACHINES 3 NO.		Sector CONSUMER GOODS		
Year to be filled by BEE			Technology INDIGINOUS		
<p>Description of the energy conservation measure:</p> <p>1. Background – Flaking machine. 1, 2 & 3 having 7.5 HP motor was operated by Motor.</p> <p>2. Problem – Our Flaking machine operates at 3 to 4 RPM of its drum which was driven through gearbox of 40: 1 ratio & 700 rpm- 7.5 hp motor with dynodrive at avg. operating load of 10 amps.</p> <p>3. Loss-Very High power consumption.</p> <p>4. Analysis – It was analyzed that the energy can be saved by using VFD.</p> <p>5. Counter Measure-VFD provided to Flaker.1, 2 & 3 in place of danodrive.</p> <p>6. Improvement-After VFD installation, Flaker.1, 2 & 3 takes operating load of 8, 8.2 & 6.2 amps load.Avg amp load is 7.5.</p> <p>7.Results- Saving in Power con.of Flaker.1, 2 & 3 =No. of flakers *Avg. running Hrs /day* Diff .Amp load*0.75*Cost/unit =3* 20* (10 – 7.5)*0.75*5 =Rs.562.5/day Total Saving/day (In INR) :- Rs.560 Total Saving/Month (In INR) = No. of working days* Saving /Day = 20 * 560 =Rs.11200 Total Saving/Year (11200 X 12) = 134400</p> <p>8. Project Cost: - VFD 3 Nos. & its installation: - Rs.98000.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
 <p>A 3D bar chart with a vertical axis from 0 to 30 in increments of 5. A single light blue bar reaches the 30 mark. The word 'BEFORE' is centered below the bar. A legend to the right shows a light blue square followed by 'AMPS'.</p>			 <p>A 3D bar chart with a vertical axis from 0 to 25 in increments of 5. A single light blue bar reaches the 22.5 mark. The word 'AFTER' is centered below the bar. A legend to the right shows a light blue square followed by 'AMPS'.</p>		
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 98000			Year of implementation: May 2007		
First year energy cost savings, Rs: 134400					
First year other savings, Rs.					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	10950	N/A	N/A	N/A	N/A
Energy consumption after	8212.5	N/A	N/A	N/A	N/A
Energy tariff, Rs/ kWh/ Ton	5	N/A	N/A	N/A	N/A
<p>Company complete address: SUNSHINE OLEOCHEM LIMITED, Survey No.217/1 Mithirohar, Gandhidham, Kutch 370201.</p> <p>Contact person who could be contacted for more information: Prakash G.Thitme Ph.No. 02836-286473, 645672/3. Fax.02836-286472 M: 09227745312</p>				<p>We authorized Bureau to use this information for dissemination</p> <p>Signature</p> <p>Date</p>	

ID to be filled by BEE	Title of the measure		Sector		
Year to be filled by BEE	HYDROGANATION PLANT CONDANSATE RECOVERY AND REUSE IN TO 12 H.S.A HOT WATER PROCESS.		CONSUMER GOODS		
		Technology INDIGINOUS			
<p>Description of the energy conservation measure:</p> <p>1. Background –Initially, We have not condensate recovery system. So it was not recovered. We were using 15 to20 KL water for our 12 HSA Section on daily From DM plant for saponification & hot water washing of 12 HSA.</p> <p>2.Problem – Approx.1000 kg steam was consumed in making hot water from DM water on daily basis & 20 Kl DM water was consumed for 12 HAS process.</p> <p>3. Loss- Approx.1000 kg steam was loosed for making hot water from DM water. Product & 20 Kl condensate was also wasted.</p> <p>4. Analysis – It was analyzed that the energy can be saved & water consumption can be minimized by recovering condensate of high press steam used in plant.</p> <p>5. Counter Measures-We started condensate recovery in our DM water tank of 12 HAS section & its use in saponification & hot water washing of 12 HSA.</p> <p>6. Improvement-15 KL DM water requirement from DM plant became zero. Condensate of temp. 75-85 C serve our hot water purpose without heating. So 1000 kg steam consumption reduced.</p> <p>7.Results-Saving in Steam Consumption/day A. = 1000 Kg *0.7 Rs./kg = Rs.700 Saving in DM water consumption/day B. = DM water saved* Cost/lit =15000 * 0.042 = Rs.630 Total Saving/Day (A + B) = Rs (700 + 630) = Rs.1330 Monthly Saving = Working day/month * Daily saving = 1330 *12 =Rs15960</p> <p>8. Project Cost:-Cost of condensate recovery system (piping):- Rs.20000.</p> <p>9.Savings :- Rs.191520/ Year</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
N/A			N/A		
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 20000			Year of implementation: MAY 2007		
First year energy cost savings, Rs: 191520					
First year other savings, Rs: N/A					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	
Energy consumption before	N/A	N/A	N/A	N/A	
Energy consumption after	N/A	N/A	N/A	N/A	
Energy tariff, Rs / Nm ³ / kL ...	N/A	N/A	N/A	N/A	
Company complete address: SUNSHINE OLEOCHEM LIMITED, Survey No.217/1 Mithirohar, Gandhidham, Kutch 370201.				We authorized Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Prakash G.Thitme Ph.No. 02836-286473, 645672/3. Fax.02836-286472 M: 09227745312				Signature Date	

ID to be filled by BEE	Title of the measure		Sector		
Year to be filled by BEE	PROVIDING ADDITIONAL LOW HP PUMP FOR HYDROGEN COOLING TOWER		CONSUMER GOODS		
		Technology INDIGINOUS			
<p>Description of the energy conservation measure</p> <p>1. Background: During slake season we are operating only one flaking machine but we had only one pump of 80 M3/Hr.capacity pump with driven by 15 HP motor for all flaking machine by smaller pump(15 m3/hr) having instead of bigger pump(80 m3/hr) which was installed for 3no..</p> <p>2. Problem: We have to run independent Flakers with same higher HP pump even the requirement was only 15 M3/Hr.</p> <p>3. Loss. We were losing 10 HP power during Stearic Acid run for 15 Day per month</p> <p>4. Analysis : Needed additional smaller pump additional smaller 15M3 capacity with 5 HP Drive motor pump</p> <p>5. Counter Measure: Installed additional smaller 15M3 capacity with 5 HP Drive motor pump at the cost of Rs.18500</p> <p>6. Results: Saving of 5 HP for 3 Months. (Sept–Nov).</p> <p>7) Total Savings : 1920 KWH / Month X 3 Months X Rate Unit Rs. 5 = Rs. 28800</p> <p>8. Project Cost:- Cost of the additional pump with piping= Rs.18500</p> <p>9. Avg. Monthly Saving: 9600</p> <p>10. Annual Saving: = Rs. 28800 (FY 2007-08)</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
N/A			N/A		
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 18500			Year of implementation: 2007-2008		
First year energy cost savings, Rs 28800					
First year other savings, Rs. N/A					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	4562.5	N/A	N/A	N/A	N/A
Energy consumption after	2737.5	N/A	N/A	N/A	N/A
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	N/A	N/A	N/A	N/A
Company complete address: SUNSHINE OLEOCHEM LIMITED, Survey No.217/1 Mithirohar, Gandhidham, Kutch 370201. Contact person who could be contacted for more information: Prakash G.Thitme Ph.No. 02836-286473, 645672/3. Fax.02836-286472 M: 09227745312				We authorized Bureau to use this information for dissemination Signature Date	

ID to be filled by BEE	Title of the measure		Sector		
Year to be filled by BEE	INSTALLED 100HP MOTOR IN PLACE OF 125HP MOTOR IN HORIZONTAL AIR COMPRESSOR.		CONSUMER GOODS		
		Technology INDIGINOUS			
Description of the energy conservation measure: 1. Background – HORIZONTAL AIR COMPRESSOR MOTOR RUNNING WITH 125HPMOTOR 2. Loss- Very High power consumption. 3. Analysis – It was analyzed that the energy can be saved by using optimizing LOADING – UNLOADING of the compressor and found that plant can be run with 6 Kg /cm2 pressure instead of 7.5 Kg/ cm2 and found compressor motor is taking much less load. Of 120 Amps instead of 143 Amps 4. Counter Measure-100 HP MOTOR Installed 5. Improvement-After 100 HP MOTOR installations, HORIZONTAL AIR COMPRESSOR takes Amp load of 120Amp. 6.Results-Saving in Power con.of HORIZONTAL AIR COMPRESSOR =Avg. running Hrs /day* Diff .Amp load*0.75*Cost/unit power = 24* (143-120)*0.8*5 =Rs.22800/day Total Saving/Month = No. of working days* Saving /Day = 31 * =Rs.68448 7.Project cost :- Nil 8. SAVINGS / YEAR Rs. :- No. of Working Days 365 X 22800 = Rs. 8213375					
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: 2007-2008		
First year energy cost savings, Rs: 8213375					
First year other savings, Rs: N/A					
On annual basis	kWh	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	N/A	N/A	N/A	N/A	N/A
Energy consumption after	N/A	N/A	N/A	N/A	N/A
Energy tariff, Rs/ kWh	N/A	N/A	N/A	N/A	N/A
Company complete address: SUNSHINE OLEOCHEM LIMITED, Survey No.217/1 Mithirohar, Gandhidham, Kutch 370201. Contact person who could be contacted for more information: Prakash G.Thitme Ph.No. 02836-286473, 645672/3. Fax.02836-286472 M: 09227745312				We authorized Bureau to use this information for dissemination Signature Date	

ID to be filled by BEE	Title of the measure INSTALLATION VFD FOR CSP PLODDER FOR LINE 1 & 2		Sector CONSUMER GOODS		
Year to be filled by BEE			Technology INDIGINOUS		
Description of the energy conservation measure: 1. Background – CSP PLODDERS WERE OPERATED BY 30Kw MOTORS EACH. 2. Problem – Very high POWER Consumption 48 to 50Amps 3. Analysis – It was analyzed that the energy can be saved by using VFD. 4. Counter Measure-VFD Installed for PLODDERS 5. Improvement-After VFD installation, PLODDER is operating with 27 – 29 Amps LOAD. 6. Results-Saving of Power .=Avg. running Hrs /day* Diff .Amp load*0.75*Cost/unit power <u>Total Saving/day</u> = 24* (48-27)*0.75*5 * 2 = 3780 / Day Total Saving/Month = No. of working days* Saving /Day = 30 * 3780 =Rs 113400 7. Project cost :- VFD & its installation:- Rs.76600 * 2 =153200 8. <u>Total Saving/Year</u> : - <u>Total Saving/Month X 12 Months = 113400 X 12 = 1360800.</u>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
N/A			N/A		
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 76600 X 2 = 153200			Year of implementation:		
First year energy cost savings, Rs. <u>1360800</u>					
First year other savings, Rs. N/A					
On annual basis	Coal (Tons)	Gas Nm ³	Gas Nm ³	Oil (kL)	Other
Energy consumption before	96	N/A	N/A	N/A	N/A
Energy consumption after	54	N/A	N/A	N/A	N/A
Energy tariff, Rs/ kWh/ Ton	5	N/A	N/A	N/A	N/A
Company complete address: SUNSHINE OLEOCHEM LIMITED, Survey No.217/1 Mithirohar, Gandhidham, Kutch 370201. Contact person who could be contacted for more information: Prakash G.Thitme Ph.No. 02836-286473, 645672/3. Fax.02836-286472 M: 09227745312				We authorized Bureau to use this information for dissemination Signature Date	

ID to be filled by BEE	Title of the measure INSTALLED ATLAS COPCO ROTARY SCREW AIR COMP WITH VFD AND AIR DRYER		Sector CONSUMER GOODS		
Year to be filled by BEE			Technology INDIGINOUS		
<p>Description of the energy conservation measure:</p> <p>1. Background –IR MAKE AIR COMPRESSORS were used for Plant Air driven by 125 HP A/C motors</p> <p>2.Problem – The AIR Compressors were consuming very high POWER 143 Amps</p> <p>3. Loss- Very High power consumption.</p> <p>4. Analysis – It was analyzed that the energy can be saved by using VFD based air compressor.</p> <p>5. Counter Measure-Installed VFD based ATLAS Rotary Screw air compressor for Plant air</p> <p>6. Improvement-After VFD based air compressor installation, air compressor takes Amp load of 85</p> <p>7.Results-Saving in Power consumption 143-85 = 58 Amps =Avg. running Hrs /day* Diff .Amp load*.8*Cost/unit power = 24* (143-85)*0.75*5 <u>Total Saving/day = Rs.5568 / Day</u></p> <p>8.Project cost :- Cost of the Atlas Rotary Screw Air Compressor Rs. 2500000</p> <p>9. Total Saving/Month = No. of working days* Saving /Day = 30 X 5200 =Rs.167040</p> <p>10. Total Saving/ Year = Saving /Month X 12 = 167040 X 12 = 2004480</p>					
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.:2500000			Year of implementation: 2007/8		
First year energy cost savings, Rs. 2004480					
First year other savings, Rs: N/A					
On annual basis	kWh	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before Amps	1252680	NIL	NIL	NIL	NIL
Energy consumption after Amps	744600	NIL	NIL	NIL	NIL
Energy tariff, Rs/ kWh ...	5	NIL	NIL	NIL	NIL
<p>Company complete address: SUNSHINE OLEOCHEM LIMITED, Survey No.217/1 Mithirohar, Gandhidham, Kutch 370201.</p> <p>Contact person who could be contacted for more information: Prakash G.Thitme Ph.No. 02836-286473, 645672/3. Fax.02836-286472 M: 09227745312</p>				<p>We authorized Bureau to use this information for dissemination</p> <p>Signature</p> <p>Date</p>	

ID to be filled by BEE	Title of the measure REPLACED 72W CFL LAMPS IN PLACE OF 125W HPSV LAMPS FOR PLANT LIGHTINGS		Sector CONSUMER GOODS		
Year to be filled by BEE			Technology INDIGINOUS		
Description of the energy conservation measure: 1. Background – 125 W 200 HPSV Lamps were used for PLANT LIGHTING 2. Loss- Very High power consumption. of 58 Amps 3. Analysis – It was analyzed that the energy can be saved by using 72Watts CFL LAMPS 4. Counter Measure- 200 Nos. 72 W CFL Lamps installed for PLANT LIGHTING. 5. Improvement-After CFL 72Watts * 200 LAMP installation, PLANT LIGHTING load reduced to 14.4 KW or 33 .48 Amps 6.Results- Power Saving: =Avg. running Hrs /day* Diff .Amp load*0.75*Cost/unit power = 13 * (58-33)*0.75*5 =Rs.1218.75 /day 7.Total Saving/Month = No. of working days* Saving /Day = 30 * 1125 =Rs.36562.5/Month 8. Project cost Rs: - 200000 (Cost of Lamps and fittings.) 9.SAVINGS :- Total Saving/Month X 12 = 438750.00					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
N/A			N/A		
Agency that executed the project (with complete address and email):					
Total investment, Rs.: 200000			Year of implementation:		
First year energy cost savings, Rs. 438750.00					
First year other savings, Rs. N/A					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	508080	NIL	NIL	NIL	NIL
Energy consumption after	289080	NIL	NIL	NIL	NIL
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	NIL	NIL	NIL	NIL
Company complete address: SUNSHINE OLEOCHEM LIMITED, Survey No.217/1 Mithirohar, Gandhidham, Kutch 370201. Contact person who could be contacted for more information: Prakash G.Thitme Ph.No. 02836-286473, 645672/3. Fax.02836-286472 M: 09227745312				We authorized Bureau to use this information for dissemination Signature Date	

ID to be filled by BEE	Title of the measure STEAM AND CONDENSATE SAVING		Sector CONSUMER GOODS		
Year to be filled by BEE			Technology INDIGINOUS		
Description of the energy conservation measure <ul style="list-style-type: none"> • OBJECTIVE : To identify the losses in the steam and condensate system To eliminate the losses after rectifications MEASURES: Reputed firm in the field M/S FORBES MARSHALL asked for audit ACTION: As per the audit findings and recommendations following measures taken <ul style="list-style-type: none"> • Faulty steam traps replaced. • Steam distribution system modified • Condensate system installed • Plugged the steam leakages and wastages through rectifications of leakages. The cost of project: Rs. 44.19 Lac. Total Savings : Rs. 46.67 Lac./ Year Payback: 0.94 year only.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
N/A			N/A		
Agency that executed the project (with complete address and email): Forbes Marshall, Post Box No.29, Mumbai Pune Highway, Pune 411034. http://www.forbesmarshall.com					
Total investment: Rs 44.19 Lac			Year of implementation: 2007-2008		
First year energy cost savings: Rs. 46.67 Lac					
First year other savings, Rs: N/A					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	N/A	N/A	N/A	N/A	N/A
Energy consumption after	N/A	N/A	N/A	N/A	N/A
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	N/A	N/A	N/A	N/A	N/A
Company complete address: SUNSHINE OLEOCHEM LIMITED, Survey No.217/1 Mithirohar, Gandhidham, Kutch 370201. Contact person who could be contacted for more information: Prakash G.Thitme Ph.No. 02836-286473, 645672/3. Fax.02836-286472 M: 09227745312				We authorized Bureau to use this information for dissemination Signature Date	

ID to be filled by BEE	Title of the measure ELIMINATED THE USE OF INDIRE CT COOLING TOWER OF FATTY ACID PLANT FOR COOLING OF DISTILLED FATTY ACID WITH DM WATER		Sector CONSUMER GOODS			
Year to be filled by BEE			Technology INDIGINOUS			
<p>Description of the energy conservation measure:</p> <ol style="list-style-type: none"> 1. Background : The process requirement is to bring down the temp of fatty Acid from 170 to 130 Degrees C before sending it to storage tank 2. Analysis -DM water can be circulated through Jacketed vessel to absorb heat of the Fatty acid and cool it down to required level. 3. Results: Stopped using Cooling Tower and Saving of valuable Electrical ENERGY 4. Project Cost:- Rs. 25000 (DM water pipe line) 5 Saving: Cooling Tower circulation Pump 40 HP + Fan 10 HP Total =50HP 50 HP = 37.25 Kwh X Total Hrs =37.25 X 24 =894 Kwh/Day 0.8 eff. X Rs. 5 / Kwh = Rs.3576/Day Monthly= No of working Days X Daily Savings = 30 X 3576 = 107280. 6. Annual Saving: -12873360 (FY 2007-08) 						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
N/A			N/A			
Agency that executed the project (with complete address and email):						
Total investment :Rs. 25000			Year of implementation: 2007-2008			
First year energy cost savings: Rs: 1287360						
First year other savings, Rs: N/A						
On annual basis		kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before		7831440	NIL	NIL	NIL	NIL
Energy consumption after		0	NIL	NIL	NIL	NIL
Energy tariff, Rs/ kWh		5	NIL	NIL	NIL	NIL
<p>Company complete address: SUNSHINE OLEOCHEM LIMITED, Survey No.217/1 Mithirohar, Gandhidham, Kutch 370201.</p> <p>Contact person who could be contacted for more information: Prakash G.Thitme Ph.No. 02836-286473, 645672/3. Fax.02836-286472 M: 09227745312</p>				<p>We authorized Bureau to use this information for dissemination</p> <p>Signature</p> <p>Date</p>		

ID to be filled by BEE	Title of the measure INCREASE IN FEED RATE OF SPLITTING PLANT BY USAGE OF LOW COST HIGH CAPACITY PUMPS		Sector CONSUMER GOODS			
Year to be filled by BEE			Technology INDIGINOUS			
Description of the energy conservation measure 1. Background : Main aim is to increase feed rate and plant capacity 2. Problem : Not getting sufficient feed rate in plant capacity 3. Loss. High Cost Low Capacity Imported pumps are avoided and usage of Low Cost high capacity local pumps 4. Analysis – Replaced 7.5 HP 3 M 3 Pump with 6 M3 12.5 HP Pump 5. Improvement- Plant capacity increased from 70 TPD to 110 TPD To increase the capacity normally 15 HP driven pump is required 6. Results: Saving 2.5HP = 48.24 KWH /Day 7. Project Cost:- 450000 8.Saving: Daily = No. working Hrs X 48.24 X .8 X Rs.5/ Kwh = 24 X 48.24 X .8 X 5 = 241.23 Monthly = 30X 241.23 =7236.9 9. Yearly Saving: - 88048.95						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
N/A			N/A			
Agency that executed the project (with complete address and email):						
Total investment Rs. 450000			Year of implementation: 2007-2008			
First year energy cost savings: Rs. - 88048.95						
First year other savings, Rs: N/A						
On annual basis		kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before		N/A	N/A	N/A	N/A	N/A
Energy consumption after		N/A	N/A	N/A	N/A	N/A
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...		N/A	N/A	N/A	N/A	N/A
Company complete address: SUNSHINE OLEOCHEM LIMITED, Survey No.217/1 Mithirohar, Gandhidham, Kutch 370201. Contact person who could be contacted for more information: Prakash G.Thitme Ph.No. 02836-286473, 645672/3. Fax.02836-286472 M: 09227745312				We authorized Bureau to use this information for dissemination Signature Date		

ID to be filled by BEE	Title of the measure		Sector		
	ELIMINATED USE OF 20 L Kcl THERMAX THERMIC FLUED HEATER		CONSUMER GOODS		
Year to be filled by BEE			Technology		
			INDIGINOUS		
Description of the energy conservation measure					
1. Background : Practice was to run both 20 & 40 Kcl Thermic fluid Heaters					
2. Loss. We started using only 40 Kcl units with its rated capacity at Max permeable limit.					
3. Analysis -The plant is running normally without affecting its capacity					
4. Counter Measure: Stopped using 20L Kcal Thermic fluid heater					
5. Results Saving the Power and required Coal of 10 Tons /Day					
6. Project Cost:- Nil					
7. Avg. Monthly Saving:					
A) Power: Running Days X Total power / Day = 30 X 1666.5Kwh X Rate5/Kwh = 249980/-					
Month					
B)Coal : Running Days X Coal required /Day X Rate of coal = 30 X 10 X 1200 =360000 /					
Month					
8. Annual Saving: - (FY 2007-08					
:Power : 249980 X 10 = 2499800 (Unit runs when other unit is under shut down approx 2					
Months)					
:Coal : 360000 X 12 =4320000					
Total Saving Rs.6819800/Year					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
N/A			N/A		
Agency that executed the project (with complete address and email					
Total investment: Rs Nil.			Year of implementation: 2007-2008		
First year energy cost savings: Rs. 6819800					
First year other savings, Rs: N/A					
On annual basis	kWh	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	1308480.5	7500	NIL	NIL	NIL
Energy consumption after	808530.5	4500	NIL	NIL	NIL
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	1200	NIL	NIL	NIL
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Contact person who could be contacted for more information: Prakash G.Thitme Ph.No. 02836-286473, 645672/3. Fax.02836-286472 M: 09227745312				Signature	
				Date	