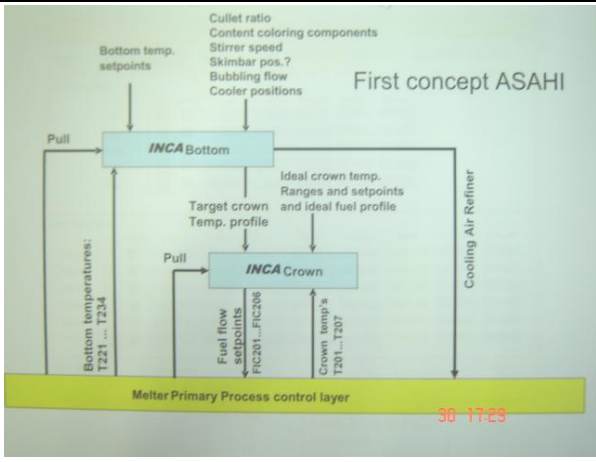


## Energy Conservation Measure implemented in 2007-2008


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

ID to be filled by BEE	Title of the measure <b>Installation of intelligence control system for Furnace operation (Trend setter Project)</b>	Sector .....Glass.....			
Year to be filled by BEE		Technology .....			
<p>Description of the energy conservation measure: Furnace temperature is very important for better glass quality. To achieve that auto controller is installed which keeps the temperature within specified range hence saving of fuel and better quality of molten glass.</p> <p><b>Benefits :</b></p> <ol style="list-style-type: none"> <li>1] Better process parameter control</li> <li>2] Energy consumption reduction.</li> <li>3] Reduction in product defects.</li> </ol> <p><b>Net Saving: 175 KI/Annum.</b></p>					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
					
Agency that executed the project (with complete address and email): <b>AIS, CFT ( FLOAT )</b>					
Total investment, <b>Rs.:135 Lakhs</b>	Year of implementation: <b>2007-08</b>				
First year energy cost savings, <b>Rs.: 32.77 Lakhs( for 12 months from the date of commissioning)</b>					
First year other savings, Rs.:- <b>150 Lakhs.</b> (Reduction in defects in glass loss by 1%)					
<b>On annual basis</b>	<b>kWh 000'</b>	<b>Coal (Tons)</b>	<b>Gas Nm<sup>3</sup></b>	<b>Oil (kL)</b>	<b>Other</b>
Energy consumption before	00	0.00	0.00	31641.92	0.00
Energy consumption after	00	0.00	0.00	31099.94	0.00
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	00	0.00	0.00	18723.18	0.00
Company complete address: Asahi India Glass Limited, Plot No. T – 7, Taloja, MIDC, Dist. Raigad. Maharashtra. Contact person who could be contacted for more information: <b>Mr. Milind Gurjar.</b>				We authorise Bureau to use this information for dissemination	
				Signature	
				Date	

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### Energy Conservation Measure implemented in 2007-2008



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

ID to be filled by BEE	Title of the measure  <b>Installation of Down Stream Pressure Controller for Reduction in Compressed air Consumption</b>	Sector .....Glass.....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure: Prior to installation of down stream pressure controller the average compressed air consumption per day for the complete plant was 35669.45 NM <sup>3</sup> and average power consumption was 5150 Kwh/day. After installation the compressed air consumption was rationalized by maintaining the demand pressure down the line. The average compressed air consumption reduced to 26428.81 NM <sup>3</sup> /Day and average power consumption reduces to 2991.24 Kwh/Day. The normal pressure setting prior to down stream pressure controller installation was 6.2 Kg/CM <sup>2</sup> . Now after installation of down stream controller the pressure setting is adjusted to 5.7 Kg/CM <sup>2</sup> .					
Picture/ sketch/ drawing before modification (if available)		Picture/ sketch/ drawing after modification			
No Down Stream Controller		<del>DOWN STREAM CONTROLLER (COMPRESSED AIR)</del> 			
Agency that executed the project (with complete address and email): <b> AIS, CFT ( ENGG )</b>					
Total investment, <b>Rs.:4.09</b> Lakhs			Year of implementation: <b>2007-08</b>		
First year energy cost savings, Rs. <b>30.89</b> Lakhs (From <b>12</b> Months)					
First year other savings, Rs.:-					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	1879805	0.00	0.00	0.00	0.00
Energy consumption after	1091805	0.00	0.00	0.00	0.00
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	3.92	0.00	0.00	0.00	0.00
Company complete address: Asahi India Glass Limited, Plot No. T – 7, Taloja, MIDC, Dist. Raigad. Maharashtra. Contact person who could be contacted for more information: <b>Mr. Milind Gurjar.</b>				We authorise Bureau to use this information for dissemination  Signature  Date	

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### Energy Conservation Measure implemented in 2007-2008


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

ID to be filled by BEE	Title of the measure <b>Replacement of 2 Nos. of lift up pumps by single high efficiency pump</b>	Sector .....Glass.....			
Year to be filled by BEE		Technology .....			
Description of the energy conservation measure: Initially in water pond area we were running 2 Nos. of Lift-up pump of capacity 750 M <sup>3</sup> /Hr. & 150 M <sup>3</sup> /Hr. with 24 Hrs. x 365 Days working Total power consumption for running both the pumps was 160 Kw (124+36 Kw) it was decided to replace this both pumps by Kirloskar mark high efficiency pump of capacity 1000 M <sup>3</sup> /Hr. & the power consumption for the pump is 130 Kw. <b>Net saving of 30 Kw/Hr.</b>					
<b>Picture/ sketch/ drawing before modification</b> (if available)		<b>Picture/ sketch/ drawing after modification</b>			
Before :- Two pumps Running 		After:- Single High Efficiency pump 			
Agency that executed the project (with complete address and email): <b>AIS,CFT( ENGG )</b>					
Total investment, <b>Rs.: 5.7 Lakhs</b>		Year of implementation: <b>2007-08</b>			
First year energy cost savings, <b>Rs.: 10.3 Lakhs</b> (for 12 month from date of commissioning)					
First year other savings, Rs.:-					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	1401600	0.00	0.00	0.00	0.00
Energy consumption after	1138800	0.00	0.00	0.00	0.00
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	3.92	0.00	0.00	0.00	0.00
Company complete address: Asahi India Glass Limited, Plot No. T – 7, Taloja, MIDC, Dist. Raigad. Maharashtra. Contact person who could be contacted for more information: <b>Mr. Milind Gurjar.</b>				We authorise Bureau to use this information for dissemination  Signature  Date	

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## Energy Conservation Measure implemented in 2007-2008

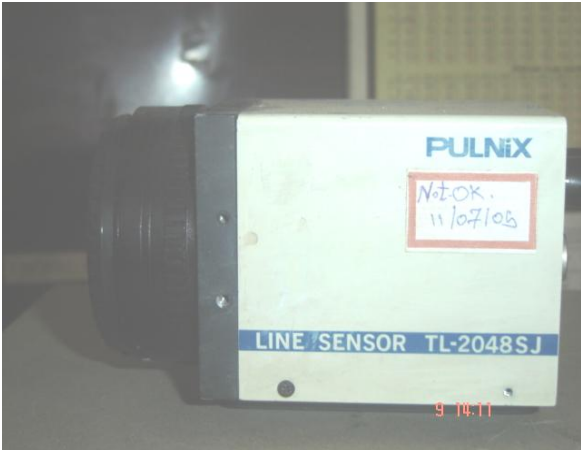

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure	Sector .....Glass.....			
Year to be filled by BEE	<b>Installation of Maximum Demand controller for optimizing the KVA Demand .</b>	Technology .....			
<p>Description of the energy conservation measure:</p> <p>The past one year Electricity consumption data shows that the average actual Kva demand was 3352 and billed demand Kva was 3452. Hence decided to install a demand controller to control the maximum demand Kva by switching of the non priority loads during peak demand.</p> <p>After installation of demand controller the average actual demand Kva is maintained at 2773 and the average billed demand Kva is 3171.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
<b>BEFORE</b>			<b>AFTER</b>		
Previous No demand controller was there					
Agency that executed the project (with complete address and email): <b>AIS, CFT ( ENGG )</b>					
Total investment, <b>Rs.: 2 Lakhs</b>			Year of implementation: <b>2007-08</b>		
First year energy cost savings, <b>Rs.: 9.05 Lakhs</b> ( from 12 months from the date of commissioning)					
First year other savings, Rs.:-					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before (Kva)	40218	0.00	0.00	0.00	0.00
Energy consumption after (Kva)	34182	0.00	0.00	0.00	0.00
Energy tariff, Rs / Kva	150	0.00	0.00	0.00	0.00
Company complete address: Asahi India Glass Limited, Plot No. T – 7, Taloja, MIDC, Dist. Raigad. Maharashtra. Contact person who could be contacted for more information: <b>Mr. Milind Gurjar.</b>				We authorize Bureau to use this information for dissemination  Signature  Date	

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### Energy Conservation Measure implemented in 2007-2008



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

ID to be filled by BEE	Title of the measure	Sector .....Glass.....			
Year to be filled by BEE	<b>Stopping the use of 15 Tons Air conditioner in HDD camera room.</b>	Technology .....			
<p>Description of the energy conservation measure: Initially in HDD camera room 2 Nos. of 15T Air conditioners were used for maintaining the temperature of HDD camera system 24 Hrs. x 365 Days. Average power consumption per AC was 11.5Kw. The HDD camera system was modified and was provided cooling water jackets for maintaining the temperature and there by the use of both the AC was stopped. <b>Net saving of 34.56 Kw/Day.</b></p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
<b>Before</b>			<b>After</b>		
					
Agency that executed the project (with complete address and email): <b>AIS,CFT (ENGG )</b>					
Total investment, <b>Rs.: 1.95</b> Lakhs			Year of implementation: <b>2007-08</b>		
First year energy cost savings, <b>Rs.: 7.99</b> Lakhs ( for 12 months from the date of commissioning)					
First year other savings, Rs.:-					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	201480	0.00	0.00	0.00	0.00
Energy consumption after	0	0.00	0.00	0.00	0.00
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	3.92	0.00	0.00	0.00	0.00
Company complete address: Asahi India Glass Limited, Plot No. T – 7, Talaja, MIDC, Dist. Raigad. Maharashtra. Contact person who could be contacted for more information: <b>Mr. Milind Gurjar.</b>				We authorise Bureau to use this information for dissemination	
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## Energy Conservation Measure implemented in 2007-2008



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

ID to be filled by BEE	Title of the measure	Sector .....Glass.....			
Year to be filled by BEE	<b>Energy saving in Lighting system.</b>	Technology .....			
<p>Description of the energy conservation measure:                  Various energy conservation measures were implemented in the lighting system some of them were replacing 160W lamp by 40W tube lights, replacing 160W HPMV lamp by 26W CFL and replacing 400W overhead lamps by 85W CFL lamps along with well glass fixtures. Total 300 Nos. lamps replaced at various location.</p> <p><b>Net saving of 60 Kwh/Day.</b></p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
<b>Before</b>			<b>After</b>		
					
Agency that executed the project (with complete address and email): <b>AIS, CFT ( ENGG )</b>					
Total investment, <b>Rs.:</b> 4 Lakhs.			Year of implementation: <b>2007-08</b>		
First year energy cost savings, <b>Rs.:</b> 2.78 Lakhs					
First year other savings, Rs.:-					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	292000	0.00	0.00	0.00	0.00
Energy consumption after	213000	0.00	0.00	0.00	0.00
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	3.92	0.00	0.00	0.00	0.00
Company complete address: Asahi India Glass Limited, Plot No. T – 7, Taloja, MIDC, Dist. Raigad. Maharashtra. Contact person who could be contacted for more information: <b>Mr. Milind Gurjar.</b>				We authorize Bureau to use this information for dissemination  Signature  Date	

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## Energy Conservation Measure implemented in 2007-2008



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

ID to be filled by BEE	Title of the measure	Sector .....Glass.....			
Year to be filled by BEE	<b>Energy saving by reducing heater power consumption in Metal Bath down steam by process modification.</b>	Technology .....			
<p>Description of the energy conservation measure:                  Electric resistance heaters are used in Metal Bath down stream for controlling the exit temperature of glass ribbon. The average power consumption was 460 Kwh/day. Banjo coolers used to control the temperature were not efficient due to its design limitation. The banjo coolers were replaced by straight coolers which help in controlling the exit temperature there by the necessity to put on the heaters for temperature control was reduce to average of 50 Kwh/day.  <b>Net saving of 160 Kwh/Hr.</b></p>					
<b>Picture/ sketch/ drawing before modification</b> (if available)			<b>Picture/ sketch/ drawing after modification</b>		
<b>Before</b>			<b>After</b>		
					
Agency that executed the project (with complete address and email): <b>AIS, CFT ( FLOAT )</b>					
Total investment, <b>Rs.: 2 Lakhs</b>			Year of implementation: <b>2007-08</b>		
First year energy cost savings, <b>Rs.: 54.94 Lakhs</b>					
First year other savings, Rs.:-					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	4029600	0.00	0.00	0.00	0.00
Energy consumption after	2627600	0.00	0.00	0.00	0.00
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	3.92	0.00	0.00	0.00	0.00
Company complete address: Asahi India Glass Limited, Plot No. T – 7, Taloja, MIDC, Dist. Raigad. Maharashtra. Contact person who could be contacted for more information: <b>Mr. Milind Gurjar.</b>				We authorize Bureau to use this information for dissemination  Signature  Date	

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## Energy Conservation Measure implemented in 2007-2008



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

ID to be filled by BEE	Title of the measure	Sector .....Glass.....			
Year to be filled by BEE	<b>Electrical Energy saving by stopping the additional Blower used for bottom cooling.</b>	Technology .....			
Description of the energy conservation measure: <b>Initially Blower of 22 Kw was used for cooling the hot spots below metal bath. This blower was running 24 hrs x 365 days on continuous basis, by little modification in the ducting , the 22KW blower was completely stopped .</b>					
<b>Net Savings :- 480 KWH/ day</b>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
<b>Before blower used for Bottom Cooling</b>			<b>After :- Ducting Modified and blower stopped</b>		
					
Agency that executed the project (with complete address and email): <b> AIS, CFT ( FLOAT )</b>					
Total investment, <b>Rs.: 5000</b>			Year of implementation: <b>2007-08</b>		
First year energy cost savings, <b>Rs.: 4.52 Lakhs ( for 8 months from the date of Commissioning)</b>					
First year other savings, Rs.:-					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	115200	0.00	0.00	0.00	0.00
Energy consumption after	0	0.00	0.00	0.00	0.00
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	3.92	0.00	0.00	0.00	0.00
Company complete address: Asahi India Glass Limited, Plot No. T – 7, Taloja, MIDC, Dist. Raigad. Maharashtra. Contact person who could be contacted for more information: <b>Mr. Milind Gurjar.</b>				We authorize Bureau to use this information for dissemination  Signature  Date	

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## Energy Conservation Measure implemented in 2007-2008



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

ID to be filled by BEE	Title of the measure	Sector .....Glass.....			
Year to be filled by BEE	<b>Electrical Energy Saving by stopping 03 Nos. of Lehr Bottom Cooling Fans</b>	Technology .....			
<p><b>Description of the energy conservation measure:</b>                  In Metal Bath Area we were using 3 nos. of 22kw blower for cooling the glass ribbon from top side and 3 nos. of 15 kw blowers were used for cooling the glass ribbon from bottom side . the blowers were in operation 24 x 365 days , each top and bottom cooling blowers were having the separate ducting for the same, and it was observed that for top cooling blowers damper was almost 30 % closed, it was decided to modify the ducting to interconnect the top and bottom cooling to a single blower , accordingly after modification , 3nos of 15 kw blowers were completely stopped .</p> <p><b>Net saving of :- 1080 kwh/day.</b></p>					
<b>Picture/ sketch/ drawing before modification</b> (if available)			<b>Picture/ sketch/ drawing after modification</b>		
<b>Before blower used for Bottom Cooling</b>			<b>After :- Ducting Modified and blower stopped</b>		
					
Agency that executed the project (with complete address and email): <b>AIS, CFT (FLOAT)</b>					
Total investment, <b>Rs.: 0.50 Lakhs</b>			Year of implementation: <b>2007-08</b>		
First year energy cost savings, <b>Rs 7.62 Lakhs( for 6 months from the date of commissioning)</b>					
First year other savings, Rs.:-					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	972360	0.00	0.00	0.00	0.00
Energy consumption after	777960	0.00	0.00	0.00	0.00
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	3.92	0.00	0.00	0.00	0.00
Company complete address: Asahi India Glass Limited, Plot No. T – 7, Taloja, MIDC, Dist. Raigad. Maharashtra. Contact person who could be contacted for more information: <b>Mr. Milind Gurjar.</b>				We authorize Bureau to use this information for dissemination  Signature  Date	

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## Energy Conservation Measure implemented in 2007-2008


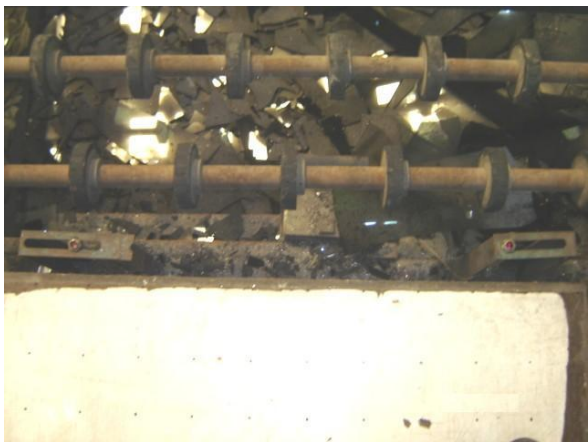
(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure	Sector .....Glass.....			
Year to be filled by BEE	<b>Reduction in Running Hours of Guillotine machine</b>	Technology .....			
<p>Description of the energy conservation measure:</p> <p>In Cutting and packing area Guillotine machine is used to cullet the defected glass, this machine consumes total 5.6 kw per hour , this machine use to run continuously 24 x 365 days , even when there is defected glass on the conveyor , it was decided to carry out in-house automation of the same in such a way that it starts only when the defected glass comes on the conveyor .accordingly sensors were installed on the conveyor to sense the glass sheet , By doing above modification the machine running time has been reduced by almost 50%.</p> <p><b>Net Saving:-67.2 kwh per day</b></p>					
<b>Picture/ sketch/ drawing before modification</b> (if available)			<b>Picture/ sketch/ drawing after modification</b>		
<b>Before</b>			<b>After</b>		
					
Agency that executed the project (with complete address and email): <b> AIS, CFT (C&amp;P )</b>					
Total investment, <b>Rs.: 0.20 Lakhs</b>			Year of implementation: <b>2007-08</b>		
First year energy cost savings, <b>Rs.: 0.79 Lakhs( for 10 months from the date of commissioning)</b>					
First year other savings, Rs.:-					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	49056	0.00	0.00	0.00	0.00
Energy consumption after	28896	0.00	0.00	0.00	0.00
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	3.92	0.00	0.00	0.00	0.00
Company complete address: Asahi India Glass Limited, Plot No. T – 7, Taloja, MIDC, Dist. Raigad. Maharashtra. Contact person who could be contacted for more information: <b>Mr. Milind Gurjar.</b>				We authorize Bureau to use this information for dissemination  Signature  Date	

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## Energy Conservation Measure implemented in 2007-2008

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

ID to be filled by BEE	Title of the measure	Sector .....Glass.....			
Year to be filled by BEE	<b>Reduction in running time of floating table blowers</b>	Technology .....			
<p>Description of the energy conservation measure:</p> <p>In Cutting and packing section floating table is used to carry out the off cutting operation, this floating table is provided with 04 nos. of 2.2 Kw Blowers which blows the air into the table. This table is used to recover the good glass from the defected glass, initially these blowers were running 24 x 365 , automation was done by providing sensors and timer to shut off the blowers when there is not any glass on the table. This modification has reduced the operation time by 40%</p> <p><b>Net savings :- 126 Kwh / day.</b></p>					
<b>Picture/ sketch/ drawing before modification</b> (if available)			<b>Picture/ sketch/ drawing after modification</b>		
<b>Before</b>			<b>After</b>		
					
Agency that executed the project (with complete address and email): <b>AIS, CFT (C&amp; P)</b>					
Total investment, <b>Rs.: 0.30 Lakhs</b>			Year of implementation: <b>2007-08</b>		
First year energy cost savings, <b>Rs.: 0.89 Lakhs ( for 06 months from the date of commissioning)</b>					
First year other savings, Rs.:-					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm <sup>3</sup>	Oil (kL)	Other
Energy consumption before	972360	0.00	0.00	0.00	0.00
Energy consumption after	949680	0.00	0.00	0.00	0.00
Energy tariff, Rs/ kWh/ Ton/ Nm <sup>3</sup> / kL ...	3.92	0.00	0.00	0.00	0.00
Company complete address: Asahi India Glass Limited, Plot No. T – 7, Taloja, MIDC, Dist. Raigad. Maharashtra. Contact person who could be contacted for more information: <b>Mr. Milind Gurjar.</b>				We authorize Bureau to use this information for dissemination  Signature  Date	

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