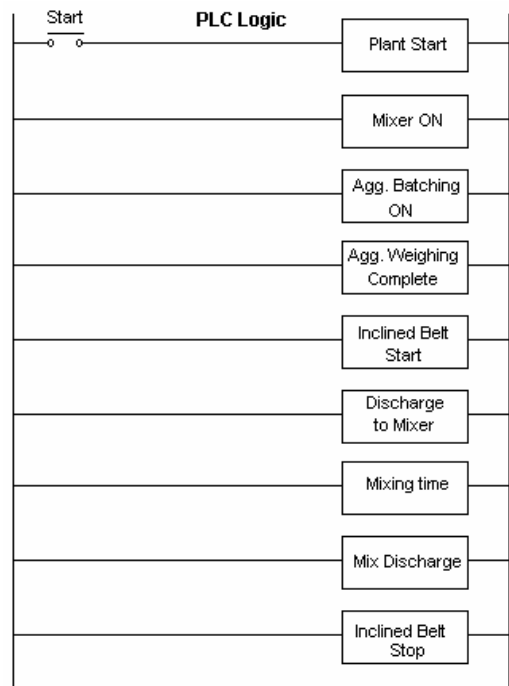
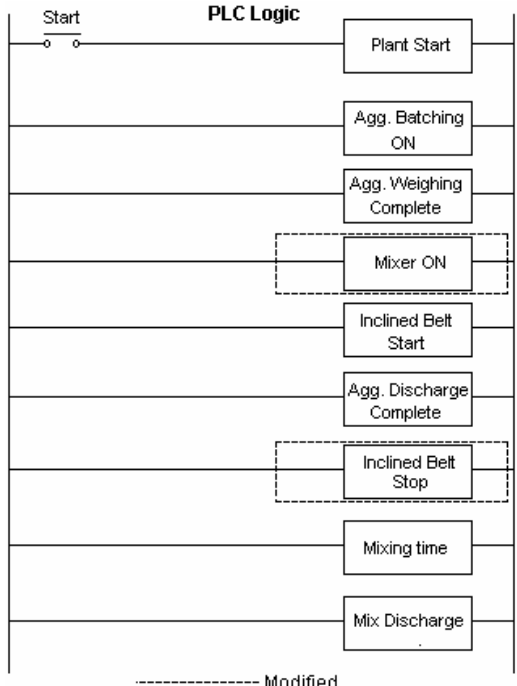


Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Awareness for Energy saving.		Sector			
Year to be filled by BEE			Technology			
<p>Earlier the company was providing electrical energy to all the employees free of cost. Energy meters were installed and the employees were charged nominally for the energy consumption (Rs.1 per unit).</p> <p>This helped to create awareness among the employees regarding energy savings and energy consumption reduced.</p> <p>Simple payback period is calculated for one year.</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. 65000.00			Year of implementation: 2005			
First year energy cost savings, Rs. 60000.00						
First year other savings, Rs.:						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before		NA	NA	NA	NA	
Energy consumption after		NA	NA	NA	NA	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...		NA	NA	NA	NA	
Company complete address:				We authorise Bureau to use this information for dissemination		
Contact person who could be contacted for more information:				Signature Date		

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Reduced idle running of Mixer & Inclined Conveyor in IME Batching Plant	Sector			
Year to be filled by BEE		Technology			
The Mixer & Inclined Conveyor belt were running idle for 2 min. for every cycle of 4.5 m ³ i.e. 16 min. of an hour. The total kWh 92.5 KW load at 0.5 load factor i.e. 46.25 KW/Hrs. This 16 min. per hour idle running avoided					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
			 <p style="text-align: right; margin-top: 10px;">----- Modified</p>		
Agency that executed the project (with complete address and email): Self					
Total investment, Rs. 35000.00			Year of implementation: 2005		
First year energy cost savings, Rs. 62680.00					
First year other savings:- Reduced wear & tear of Bearing, Life of motors, Gear Box, etc increased.					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	79300.00	NA	NA	NA	NA
Energy consumption after	66764.00	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5.00	NA	NA	NA	NA
Company complete address: M/S.HCC Ltd, Hincon House, LBS Marg, Vikhroli (West), Mumbai – 400083.				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr.K.S.Murali, Tel: 022 25715276, Mob: 09820523489.				Signature Date	

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Savings due to improvement of Power Factor			Sector		
Year to be filled by BEE				Technology		
<p>We are maintaining the Power Factor of our distribution system to 0.99 till date. This has not only reduced the maximum demand but also improved the voltage regulation of the system.</p> <p>We are saving in reduction of maximum demand and are also receiving PF incentives from the Client(NPCIL) for maintaining of PF.</p> <p>Encl: Letter of appreciation by the Client for the maintaining of PF.</p>						
Picture/ sketch/ drawing before modification (if available)				Picture/ sketch/ drawing after modification		
				Attached drawings.		
Agency that executed the project (with complete address and email):						
Total investment, Rs.: 778422				Year of implementation: 2005		
First year energy cost savings, Rs.						
First year other savings, Rs.:						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before		NA	NA	NA	NA	
Energy consumption after		NA	NA	NA	NA	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...		NA	NA	NA	NA	
Company complete address: M/S.HCC Ltd, Hincon House, LBS Marg, Vikhroli (West), Mumbai – 400083.				We authorise Bureau to use this information for dissemination		
Contact person who could be contacted for more information: Mr.K.S.Murali, Tel: 022 25715276, Mob: 09820523489				Signature		
				Date		

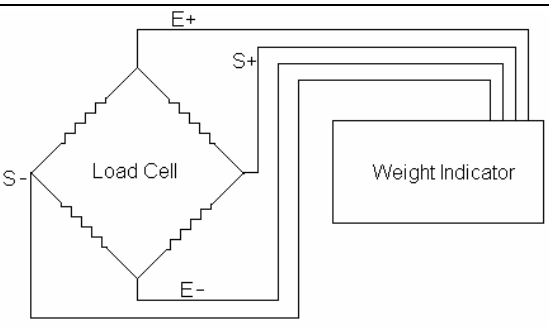
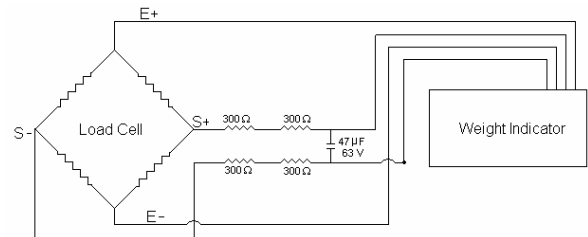
Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Replacement of 1000W Halogen lamps with HPSV 400W lamps.	Sector			
Year to be filled by BEE		Technology			
Replacement of Halogen lamps 1000 watts by High Pressure Sodium Vapour lamps (HPSV) of 400 watts. Total of 50 Nos operated for 10 Hrs (Night time).					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
Agency that executed the project (with complete address and email): Self					
Total investment, Rs. 290000.00	Year of implementation: 2005				
First year energy cost savings, Rs. 450000.00					
First year other savings, Rs.					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	180000	NA	NA	NA	NA
Energy consumption after	90000	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...		NA	NA	NA	NA
Company complete address: M/S.HCC Ltd, Hincon House, LBS Marg, Vikhroli (West), Mumbai – 400083.				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr.K.S.Murali, Tel: 022 25715276, Mob: 09820523489				Signature	
				Date	

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Starting of water pump only with the water batching in Auto batch	Sector			
Year to be filled by BEE		Technology			
<p>The water pump used to remain on for the entire batch in Auto mode which is not necessary as the water batching is over in the initial phase of the cycle. This was leading to ideal running of the water pump and wastage of energy. We modified the electrical circuit and now the water pump is running only at charging of water and remains OFF up to next charge. This not only reduced the ideal running of the pump but also saved lot of electrical energy.</p>					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
Agency that executed the project (with complete address and email): Self					
Total investment, Rs. NIL	Year of implementation: 2005				
First year energy cost savings, Rs. 45000.00					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before					
Energy consumption after					
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...					
Company complete address: M/S.HCC Ltd, Hincon House, LBS Marg, Vikhroli (West), Mumbai – 400083.				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr.K.S.Murali, Tel: 022 25715276, Mob: 09820523489				Signature	
				Date	

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure In co-operation of Filter circuits in aggregate weighing.	Sector			
Year to be filled by BEE		Technology			
<p><u>Fluctuations in all scale weicher indicators (MP30):</u> At the time of commissioning of the plant, we found that all scale weicher indicators had lot of fluctuations and erratic readings; comparatively aggregate weighing scale had more fluctuations than others.</p> <p>Due to this inaccuracy (out of tolerance) the quality of product was suffered, this was not accepted by Quality Dept.</p> <p>After close study our conclusion was, this is due to noise and harmonics distortion in signal side of load cells. Using of ferromagnetic or RC (resistance - capacitor) filters noise and harmonics can be eliminated.</p> <p>By connecting the RC filter components: 4 X 330Ω resistances, 47μf 63VDC capacitor we have eliminated harmonics and noise in the aggregate weighing.</p> <p>Result ing accuracy (within limit) and quality of product was level to acceptance by quality dept.</p>					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
					
Agency that executed the project (with complete address and email): Self					
Total investment, Rs.: 500	Year of implementation: 2002-2003				
First year energy cost savings, Rs.:					
First year other savings, Rs.: 50000.00					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	NIL				
Energy consumption after	NIL				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	NIL				
Company complete address: M/S.HCC Ltd, Hincon House, LBS Marg, Vikhroli (West), Mumbai – 400083.				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr.K.S.Murali, Tel: 022 25715276, Mob: 09820523489				Signature Date	

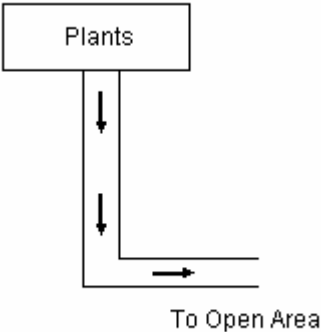
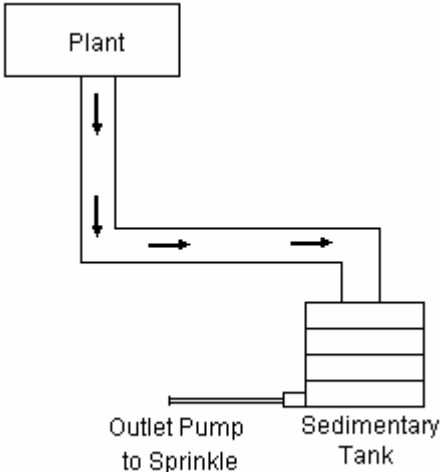
Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure				Sector
Year to be filled by BEE	Human Resource Development				Technology
<p>Training of Engineers at training institutes like All Time Marine institute for Training, Training at OEMs manufacturing units to gain detailed information about the equipments that are used on site and in-house training at our central equipment workshop. Training to downstream employees and sub-contractors awareness to reduce idle running of welding machines at Fabrication Yard, office accessories, site lighting and task based lighting for night shifts.</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.90000.00			Year of implementation:2006		
First year energy cost savings, Rs.154850.00					
First year other savings, Rs.					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	633284	NA	NA	NA	NA
Energy consumption after	602314	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	NA	NA	NA	NA
Company complete address: M/S.HCC Ltd, Hincon House, LBS Marg, Vikhroli (West), Mumbai – 400083.				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information:				Signature	
Mr.K.S.Murali, Tel: 022 25715276, Mob: 09820523489				Date	

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Process Monitoring and Control.		Sector		
Year to be filled by BEE			Technology		
<p>We are manufacturing ice for temperature controlled concrete and as the quantity of ice required is very large we stock the ice in ice bins. The atmospheric temperature at Kudankulam in day time is very high. Due to these high ambient temperatures the rate of melting of ice increases and it is up to 6% of production quantity. This leads to wastage of electrical energy used for manufacturing of ice. We have used the temperature controlled air conditioning equipment to reduce the ice bin temperature and able to reduce the melting of ice up to 5%.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Self					
Total investment, Rs.:			Year of implementation:2006		
First year energy cost savings, Rs.201240.00					
First year other savings, Rs.					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	806574	NA	NA	NA	NA
Energy consumption after	766326	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	NA	NA	NA	NA
Company complete address: M/S.HCC Ltd, Hincon House, LBS Marg, Vikhroli (West), Mumbai – 400083. Contact person who could be contacted for more information: Mr.K.S.Murali, Tel: 022 25715276, Mob: 09820523489				We authorise Bureau to use this information for dissemination Signature Date	

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Recycling of Material	Sector			
Year to be filled by BEE		Technology			
<p>The water that is thrown out of plant after cleaning and washing of plants which includes cement and dust particles is collected in sedimentation tank in plant area. After water treatment and sedimentation the water is used for sprinkling in plant area, roads to settle down the dust. This protects the environment and humans from diseases. Quantity is app. 6000 litres/day.</p> <p>If the water is not reused then we have to use fresh water for the above activities i.e sprinkling in that case we could waste valuable resource and could get higher cost implications.</p>					
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification				
 <p style="text-align: center;">To Open Area</p>					
Agency that executed the project (with complete address and email): Self					
Total investment, Rs.:	Year of implementation:				
First year energy cost savings, Rs.:					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	NA	NA	NA	NA	NA
Energy consumption after	NA	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	NA	NA	NA	NA	NA
Company complete address: M/S.HCC Ltd, Hincon House, LBS Marg, Vikhroli (West), Mumbai – 400083.				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr.K.S.Murali, Tel: 022 25715276, Mob: 09820523489				Signature Date	

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Replacement of 1000W Halogen lamps with HPSV 400W lamps.		Sector		
Year to be filled by BEE			Technology		
Replacement of Halogen lamps 1000 watts by High Pressure Sodium Vapour lamps (HPSV) of 400 watts. Total of 50 Nos operated for 10 Hrs (Night time).					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Self					
Total investment, Rs. 290000.00			Year of implementation: 2006		
First year energy cost savings, Rs. 450000.00					
First year other savings, Rs.					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	180000	NA	NA	NA	NA
Energy consumption after	90000	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...		NA	NA	NA	NA
Company complete address: M/S.HCC Ltd, Hincon House, LBS Marg, Vikhroli (West), Mumbai – 400083.				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr.K.S.Murali, Tel: 022 25715276, Mob: 09820523489				Signature	
				Date	

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Grout Plant mixer gate modifications	Sector
Year to be filled by BEE		Technology
<p>Mixer discharge gates (2 Nos.) used in grout plant was hand lever operated and required lot of physical strength to open/close. Operator has to leave plant-operating panel to operate these gates.</p> <p>There was no feedback to PLC/indication on operator panel if discharge gate was open or closed and auto cycle started even though gate remained open. Water and admixture batched got discharged from mixer through the gates even it remained open for 4-5mm.</p> <p>Batched cement was discharging to mixer even when there was no or small quantity of water and admixture in the mixer. This was leading to formation of lumps and jammed the mixer. We had to clean the mixer and throw out the mix containing 700Kgs. of cement.</p> <p>This was leading to wastage of materials (cement, admixture, and water), energy and loss of time.</p> <p>To avoid above problems we had modified the electrical wiring in the main panel in such a way that the auto cycle command should be accepted only getting the feed back of mixer selection and that mixer discharge gate is closed for that particular mixer.</p> <p>To visualizes the states of the mixer selection and discharge gate position to operator have provided indicators on operating</p>		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
Agency that executed the project (with complete address and email): Self		
Total investment, Rs.: 60000.00	Year of implementation: 2006	
First year energy cost savings, Rs.:37500.00		
First year other savings, Rs.:83500.00 (Avoided Cement wastage)		
On annual basis	kWh 000'	Coal (Tons)
	Gas Nm ³	Oil (kL)
	Other	
Energy consumption before	40000.00	
Energy consumption after	32500.00	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5.00	
Company complete address: M/S.HCC Ltd, Hincon House, LBS Marg, Vikhroli (West), Mumbai – 400083.		We authorise Bureau to use this information for dissemination
Contact person who could be contacted for more information: Mr.K.S.Murali, Tel: 022 25715276, Mob: 09820523489		Signature Date

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Reduction of rejects in production processes.	Sector
Year to be filled by BEE		Technology
<p>Mixer discharge gates (2 Nos.) used in grout plant was hand lever operated and required lot of physical strength to open/close. Operator has to leave plant-operating panel to operate these gates.</p> <p>There was no feedback to PLC/indication on operator panel if discharge gate was open or closed and auto cycle started even though gate remained open. Water and admixture batched got discharged from mixer through the gates even it remained open for 4-5mm.</p> <p>Batched cement was discharging to mixer even when there was no or small quantity of water and admixture in the mixer. This was leading to temperature rise, formation of lumps and jamming of the mixer. We had to throw out the entire mix containing 700Kgs. of cement as the fluidity of the grout is not maintained due to formation of lumps.</p> <p>This was leading to wastage of materials (cement, admixture, and water), energy and loss of time.</p> <p>To avoid above problems we had modified the electrical wiring in the main panel in such a way that the auto cycle command should be accepted only getting the feed back of mixer selection and that mixer discharge gate is closed. If the mixer discharge gate is partially open the Auto cycle does not start.</p> <p>To visualizes the states of the mixer selection and discharge gate position to operator we have provided indicators on operating panel.</p>		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
Agency that executed the project (with complete address and email): Self		
Total investment, Rs.60000.00	Year of implementation: 2006	
First year energy cost savings, Rs.37500.00		
First year other savings: Cement wastage and admix wastage reduced		
On annual basis	kWh 000'	Coal (Tons)
	Gas Nm ³	Oil (kL)
	Other	
Energy consumption before	40000	NA
Energy consumption after	32500	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	5	NA
Company complete address: M/S.HCC Ltd, Hincon House, LBS Marg, Vikhroli (West), Mumbai – 400083.		We authorise Bureau to use this information for dissemination
Contact person who could be contacted for more information: Mr.K.S.Murali, Tel: 022 25715276, Mob: 09820523489		Signature Date

Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure Replacement of 1000W Halogen lamps with HPSV 400W lamps.		Sector		
Year to be filled by BEE			Technology		
Replacement of Halogen lamps 1000 watts by High Pressure Sodium Vapour lamps (HPSV) of 400 watts. Total of 50 Nos operated for 10 Hrs (Night time).					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): Self					
Total investment, Rs. 290000.00			Year of implementation: 2007		
First year energy cost savings, Rs. 450000.00					
First year other savings, Rs.					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	180000	NA	NA	NA	NA
Energy consumption after	90000	NA	NA	NA	NA
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...		NA	NA	NA	NA
Company complete address: M/S.HCC Ltd, Hincon House, LBS Marg, Vikhroli (West), Mumbai – 400083.				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr.K.S.Murali, Tel: 022 25715276, Mob: 09820523489				Signature	
				Date	