

Celebration of Energy Conservation Week
At
Shree Digvijay Cement Co. Ltd., Digvijaygram

Shree Digvijay Cement Co. Ltd. (SDCCL), a unit of Aditya Birla Group has been proud recipient of National Energy Conservation Award-2004 – Second Prize in Cement Sector.

The unit celebrated the Energy Conservation Week - 2004 from 14th Dec. 2004 to 21st Dec. 2004 with a great enthusiasm and carried out activities as follows:

- ❖ The Energy Task force members of various functional Sections of the plant identified Energy Conservation Opportunity in their respective sections & implemented it during the Week.
- ❖ A concluding celebration session was held on 21st Dec.2004 at the Shree Digvijay Officer Club to celebrate Energy Conservation Week & unit's achievement at National Energy Conservation Award –2004. The session was chaired by the Unit Head, & was attended by senior executives of the plant, all the taskforce leaders & members including engineers, technicians & workers. During the sessions, the Task Force Leaders presented summary of the activities carried out in their functional area along with energy savings.

Summary of Saving Achieved by Task Forces in various functional sections of Plant:

TEAM & ACTIVITY	TOTAL ANNUAL SAVING
<u>Crushing & Feeding</u> ❖ Optimising running hour duty between hammer crusher and 3 rd truck unloader. <ul style="list-style-type: none"> ▪ Power Saving – 24 KW / Hr ▪ Saving in Rs. – 2250 	Rs. 2250
<u>Raw Mill</u> ❖ Replacement of driving motor of Raw material belt no.7 to reduce operating speed from 1460 to 960. <ul style="list-style-type: none"> ▪ Power Saving – 2.7 KW ▪ Saving in Rs. – 1250 ❖ Reduction in idle running of Raw Material belt conveyors by modifying material flow interlocking system. <ul style="list-style-type: none"> ▪ Power Saving – 15 KW / Hr ▪ Saving in Rs. – 200 	Rs. 1450

TEAM & ACTIVITY	TOTAL ANNUAL SAVING
<p><u>Kiln & Coal Mill</u></p> <ul style="list-style-type: none"> ❖ Optimization of running hrs. of Coal Agitator by PLC programming. <ul style="list-style-type: none"> ▪ Power Saving – 3.5 KW / Hr. ▪ Saving in Rs. – 1550 ❖ Optimizing running of Cooler ESP airlocks 20044 & 20043 by PLC programming. <ul style="list-style-type: none"> ▪ Power Saving – 1.86 KW / Hr. ▪ Saving in Rs. – 850 	Rs. 2400
<p><u>Cement Mill</u></p> <ul style="list-style-type: none"> ❖ Reduction in idle running of KCP mill by optimizing feed cuts with fuzzy expert system programming. <ul style="list-style-type: none"> ▪ Power Saving – 1.06 KWh/T ▪ Saving in Rs. – 61,800 	Rs. 61,800
<p><u>Packing Plant</u></p> <ul style="list-style-type: none"> ❖ Optimization of compressed air for dust collectors, packers & cement silo. <ul style="list-style-type: none"> ▪ Power Saving – 0.39 Kwh/T ▪ Saving in Rs. – 21,800 	Rs. 21,800
<p><u>DG Power Plant</u></p> <ul style="list-style-type: none"> ❖ Optimization in operation of HFO transfer pump unit in recirculating mode by developing in-house hardware logic. <ul style="list-style-type: none"> ▪ Power saving – 1.5 KW / Hr. ▪ Saving in Rs. – 350 	Rs. 350
<p><u>Core Team</u></p> <ul style="list-style-type: none"> ❖ Temperature Interlocking of PC fan cooling Blower in winter season. <ul style="list-style-type: none"> ▪ Power Saving – 11.3 KW ▪ Saving in Rs. – 6200 ❖ Process monitoring & optimizing of Precalciner Fan by maintaining optimum loading at maximum production. <ul style="list-style-type: none"> ▪ Power Saving – 25 KW / Hr. ▪ Saving in Rs. – 13650 ❖ Disconnection of excess no. of exhaust fans in MCCs in plant for winter season. <ul style="list-style-type: none"> ▪ Power Saving – 3.36 KW / Hr. ▪ Saving in Rs. – 1850 	Rs. 21,700

❖ The unit has achieved saving of **Rs. 1,11,750** by committed efforts of the teams within span of one week only.

- ❖ Based on the performance during Energy Conservation Week, the Core Team of the unit task force was declared as “Best Team – Energy Conservation”.
- ❖ During the session, the recorded CD cassette of Energy Conservation Award –2004 - Award function held at Vigyan Bhavan, New Delhi was displayed to the employees.
- ❖ The awareness movie “Bijlee Bachao” developed by BEE was also shown at the session.
- ❖ The session was happily ended up with a dinner & brainstorming & mind-refreshing games played by employees.



Energy Manager Mr. T. S. Rana giving Welcome Speech



EC Week activities by Raw Mill section presented by Mr. Taljeet Singh Virdi - Engineer.



Plant officials attending the session



“Best Team – Energy Conservation”
– Core Team of the unit with Unit Head Shri R.A. Somani (Extreme Left)



Energy Manager Mr. T. S. Rana accepting "Best Team – Energy Conservation" award from Unit Head Shri R.A. Somani (Extreme Left)



Winners of the brainstorming games with senior officials of the plant.