

GreenCo Green Company Rating System

GREEN PROFILE ISSUE III
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VASAVADATTA CEMENT, SEDAM UNIT

About Company

Vasavadatta Cement, Sedam Unit is the 2nd green field Project of Kesoram Industries, a public limited Company. The plant is located in Gulberga district, about 4.2 Kms away from Sedam town.

The first unit conceived in the year 1983-84 and commercial production started in the year 1986. The plant went for three more units in the year 1997, 2006 and 2009.

Over the years, Vasavadatta cement has been implementing various technologies continuously which has improved environmental performance of the plant, and also focusing on several social projects. Vasavadatta Cement was one of the first few companies to measure sustainability footprint by registering for GreenCo, Green Company Rating System and has achieved prestigious Gold Rating.

GreenCo rating has helped Vasavadatta Cement attain more focused approach on environmental sustainability during 2012-13; the plant has saved ₹ 181 Lakhs by implementing various projects in Energy Efficiency after undergoing for rating.

CII-GBC highlights
the green initiatives
of **GreenCo** rated
companies



Vasavadatta Cement Plant, Sedam Unit

ACHIEVEMENTS OF VASAVADATTA CEMENT, SEDAM UNIT

Energy Efficiency

- ⇒ Energy monitoring and accounting with more than 800 instruments for all equipment with more than 5% of total load
- ⇒ Energy conservation targets are set for both thermal and electrical at the beginning of the year and action plan is devised
- ⇒ Performance evaluation is carried out for all energy intensive equipment department wise, and same is recorded and corrective actions taken accordingly. The monitoring is done in-line with targets set for SEC level for each equipment

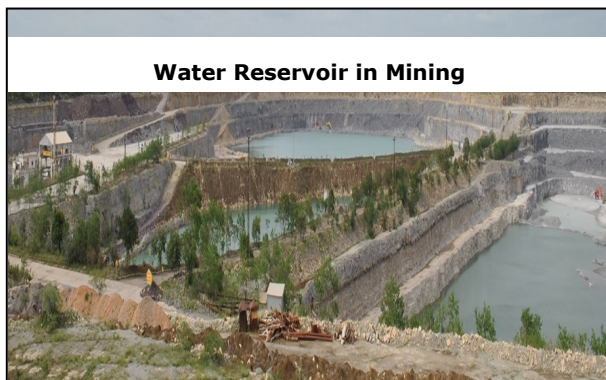
- ⇒ Planned to install 17 MW waste heat recovery system for cooler and pre-heater exit gases.
- ⇒ Installed RENTAR inline fuel catalyst in cat dozer D8R which resulted in saving of 2.88 ltrs/hr
- ⇒ Prepared around 825 benchmark parameters for improvements

Power Consumption
On PPC: 61.30 Kwh/ton of cement
On Overall : 70.35 Kwh /ton of cement

Water Conservation

- ⇒ Dedicated cross functional water management team headed by the Joint President and members from all the departments involved in water management
- ⇒ Leakage detection week is celebrated annually during which employees visit every section to identify water leakage and leakages are attended in phased manner. Prizes are given to employees who identify maximum number of leakage points

- ⇒ Electronic metering for all the sources and consumption points; daily monitoring of fresh and waste water's quality and quantity
- ⇒ Developed four old mines as rain water ponds, with storage capacity of 44 lakh m³. Presently 100% of rain water is captured and 67% is used. Plant has planned to use 99% of rain water captured in next 5 years
- ⇒ Constructed a barrage on River Kamalavathi for rain water harvesting and improvement of ground water table. This initiative has benefitted all nearby villages and communities along with plant which are dependent on this water source.



ACHIEVEMENTS OF VASAVADATTA CEMENT, SEDAM UNIT

Greenhouse Gas Emissions Reduction

- ⇒ Specific short term and long term targets and action plans
 - Reduction of source emission by using Waste Derived Fuels and Alternate Fuels and Raw material
 - Increasing share of blended cements with increased fly ash utilization
- ⇒ Hot disc installation for efficient utilization of Alternate fuels first time in India
- ⇒ Worked extensively with suppliers and transporters for reduction of Scope 3 emissions.



Waste Management and Material Conservation

- ⇒ Well defined mechanism for collecting, segregating and disposal of wastes within the facility, with specific roles defined to plant personnel to address various waste management related activities
- ⇒ Utilization of entire treated effluent in cement manufacturing process and also planned to reduce specific effluent generation on a continual basis
- ⇒ Implemented various projects to reduce air emissions like conversion of ESP to bag filter for cement mills, installation of mist spray system at wagon tippler and crusher for reducing fugitive dust emissions
- ⇒ Reduced coal consumption through fuel substitution with benzo-furan, corporation waste, rubber chips and carbon black



Product Stewardship

- ⇒ Initiatives to increase fly ash content to 31% and also planned to further increase it up to 35%
- ⇒ Public disclosure of air pollution performance of production process on monthly basis and overall environment performance on annual basis
- ⇒ Developed “Green Transport Policy” which highlights the requirements that need to be met by vehicles and also the precautions that need to be taken during transportation of cement
- ⇒ “Transportation Responsibility and Guidance Document” – indicating the responsibility of transporters for safe delivery of product as well as actions to be taken in case of accidental spillage
- ⇒ Plant has stopped use of Chrome bricks for refractory linings and also banned usage of asbestos

ACHIEVEMENTS OF VASAVADATTA CEMENT, SEDAM UNIT

Green Supply Chain

- ⇒ Adopted 'Green Transport Policy' for transportation of cement and enforcement of 'Green Procurement Policy' for selection of suppliers to purchase critical equipment
- ⇒ Relocation of bag suppliers to closer proximity of cement plant to minimize transportation
- ⇒ Mason, dealer, retailer meet is organized to promote use of PPC and slag cement
- ⇒ Training Need Identification (TNI) for all the suppliers and evaluation of their environmental performance through spider chart
- ⇒ Reverse e-auction for transportation of are conducted on yearly basis
- ⇒ Installation of speed controllers in heavy vehicles

Additional Information

- ⇒ Uses low / no VOC paints for all the painting requirements
- ⇒ Provision of housing facilities for 91% of the employees within 2KM radius and public transport facility for all the employees
- ⇒ Implementation of fuzzy logic for CPP
- ⇒ based on the cement plant's experience
- ⇒ Installation of customized pressurized sprinklers for water spray at mines
- ⇒ Plant has planned to conduct LCA study for product to monitor the product footprint.

For Further Details, please contact

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GREENCO (GREEN COMPANY RATING SYSTEM)

GreenCo, Green Company Rating System is well poised to re-define the way business is conducted in India. First of its kind in the world, GreenCo aims to rate companies on their environmental performance and also suggests the way forward.

Through this rating system CII-GBC promotes industries pursue ecologically sustainable growth and appreciate the best practices implemented by the green companies.

Focus of GreenCo Rating System

Energy Efficiency	Waste Management
Water Conservation	Green Supply Chain
Renewable Energy	Product Stewardship
GHG Mitigation	Life Cycle Assessment
Material Conservation,	Others: Ventilation, Site