

THE ACC LIMITED
Tikaria Cement Works, P.O.Gauriganj, Dist: Sultanpur (UP)

Unit Profile

Tikaria Cement Works is a unit of ACC Ltd & is located at Tikaria Industrial Area, P.O.Gauriganj and Distt. Sultanpur (U.P.). It is now operating with an annual capacity of 2.6 million tons and is one of the biggest & eco- friendly, grinding and packing plant in the country, producing 100% environmental friendly cement (conversion of fly ash, a waste generated from thermal power plant into value added product i.e. Portland Pozzolana Cement-fly ash based) by using state of art technology.

The plant was commissioned during 1998 with the aim to serve the market of Uttar Pradesh. The plant started with an annual capacity of 0.6 Million Tons (with one cement mill of 90 TPH). The plant capacity was augmented from 0.6 to 2.0 MTPA during 2002-03 (Two more cement mills of 90TPH each were installed) and further from 2.0 MTPA to 2.6 MTPA during 2007 with installation of two nos. pregrinders. To ensure consistent & quality power, a 15.0 MW Captive power plant was also installed.

Environment protection and pollution control measures have always topped in list of priorities. Being a system oriented organisation, Tikaria Cement Works is certified with ISO 9001 Quality Management System, ISO 14001 Environment Management System & OHSAS 18001 Occupational Health and Safety Management System.

TIKARIA CEMENT WORKS



Energy Conservation Policy and Set up

- Develop & promote suitable product profile to achieve ever lower energy consumption levels & still meet the requirements of the customer.
- Ensure continual reduction in energy consumption by continually improving the process of manufacturing /Selection of raw material etc.
- Conserve high value energy sources by replacing them with low value energy sources.
- Minimize transmission /transit losses.
- Create awareness among employees to conserve energy and natural resources.

- Maintain machine/ equipments so that they can be operated at their optimum efficiency.
- Eliminate / Control the idle run of machines / equipments.
- Minimize the waste generation & re-utilize the same for valve addition.

The Energy management set up involves three groups i.e. Top level, Middle level & Bottom level.

Top Group:

Includes the involvement & commitment of top Management (this includes: Plant Head & Senior Managers).

This group provides encouragement, support, guidance & resources.

Middle Group:

Includes “Energy coordinator” and all Departmental Heads

Working Group:

Includes the persons from operation & maintenance and other service support.

Energy Consumption

DESCRIPTION	UNIT	2005-06	2006-07	2007-08
Annual Production	Lakh Ton	21.12	22.89	23.83
Total Electrical Energy Consumption per annum	Lakh KWH	661.34	946.61	985.65
Specific Electrical Energy Consumption	KWH/ Ton	33.35	31.68	31.84

Energy Conservation Plans & Targets

S.No	Action Plan	Expected date of completion	Expected expenditure (Rs. Lakh)	Expected saving (LKWH/Yr)
1	Optimization of compressors	31.3.2008	0.25	0.5
2	Utilization of solar power in guest house	30.4.2008	2.0	0.1
3	Replacement of incandescent lamp with CFL	30.4.2008	0.5	0.75
4	Optimization of CM 2&3 (finer screen in VRMP)	31.5.2008	3.0	5.0
5	Replacement of ordinary with electronic ballast	31.5.2008	0.5	0.05
6	Installation of a new boiler feed pump	30.6.2008	35	6.8
7	VVVF drive for condensate extraction pump (CEP)	30.9.2008	2.5	0.25

8	Capacity enhancement of packer No 1	30.11.2008	150	3.38
9	Replacement of chain type to belt bucket elevator for packer plant No 1	31.12.2009	55	0.65
10	Utilization of extra capacity of existing pre-grinder for CM-1	31.3.2010	576	2.5

Environment & Safety

Tikaria Cement Works has implemented Environmental Management System and certified with EMS – IS/ISO 14001:2004. Various environment promotional activities like celebrations of World environment day, International Ozone layer Conservation day, National Pollution Control Day, etc. are also carried out to increase the awareness towards environment protection among the employees and all other concerned (in & around the factory).

Following are some of the initiatives made for environment:

- A well managed Rain Water Harvesting System is available where the rain water is guided through net work of drains inside the works boundary into a rain harvesting lake of 24000Sq.M area adjacent to the factory compound and capable of holding around 70,000 Meter cube water. The rain water reaching the pond is allowed to naturally percolate into the ground.
- A Green Belt has been developed in and around the Plant Premises, colony area and near by public places like railway stations, Schools and along the roads etc. and more than 1,00,000 Plants/ Saplings have been planted with the survival rate of 90%. The UPSIDC site, where our most modern plant is set up was a barren land (Ushar) totally and there was no vegetation at all, except few numbers of acacia (Babool).
- More than 25000 Jatropha (bio fuel plants) have been planted under our Massive Jatropha Plantation program. The fruit and seeds of these trees serve as a replacement of fuel. 15000 plants can supply biomass equivalent to about 150 tons of coal over a period of four years.
- Nearby villagers are motivated for the plantation by offering free saplings to them.
- Tikaria Cement Works is a ZERO DISCHARGE UNIT in terms of waste water discharge utilizing waste water for gardening in the premises.
- An efficient pollution control technology has been adopted to keep stack emissions well within the statutory limits.
- Plant has been awarded with 9th Green tech Annual Environmental Excellence Award 2008 for outstanding performance of Environmental Management, PARYAWARN SRISTI SANKAT PURASKAR 2007 for

efforts on Environmental Protection and National Award on Excellent Efficient Water Management 2006 on conservation of water.

Safety

Safety is an essential and integral part of every activity at Tikaria Cement Works. Tikaria Cement Works has implemented Occupational Health and safety Management System and certified with OHSAS- IS/ISO 18001:2000.

Following are some of the initiatives made for safety:

- On daily basis the departmental safety meeting and prayer is conducted in the department before the commencement of the job. All the line managers carry out Safety observation Tours (SOT) once a week and the same is compiled and discussed in the monthly safety committee meeting. Further, the entire Plant is divided into 10 zones and the all the Zone owners carries out self Audit once a Week and finally the same is Audited every Six Months by the External Auditors.
- Monthly Safety Gate meeting is being carried on 1st Working day of each month in which all the Workers assemble and the Plant Head addresses the gathering and make aware on safety performance. Speeches, Knowledge Sharing and Nukkad's are also carried out from time to time.
- Proper Pictorial Displays, Slogans, Posters etc are displayed all across the factory premises. Safe Working Procedures are also being displayed at prominent Locations and in the departments. Demonstrations at work Place regarding Working at Height, Safe rigging Practices and Proper usage of Personal Protective Equipments are carried out at regular intervals.
- Top management regularly reviews the monthly safety reports and necessary actions, if required, are being taken accordingly.
- Tikaria Cement Works is committed to adopt innovative approach in promoting HSE management practices. We have a plant level /corporate level competition called "Innovate to Excel" to promote innovation among employees. Some of the few projects undertaken are a) Safety Interlock for Dumper Tippling action b) Safety Interlock machine running without guard c) Standard / Safe Operating Procedures.
- Tikaria Cement Works is having excellent fire protection system. Hydrants are spread all over plant (supplied water by Fire Water Tank of Capacity-800 m3) by pump house installed specially for Fire water requirement.