ENVIRONMENTAL EXCELLENCE AT CENTURY CEMENT LIMESTONE MINES BAIKUNTH DIST. RAIPUR (CHHATTISGARH)
B.K. Birla Group of Companies

M/s Century Textiles & Industries Ltd.
(Parent Company)

CENTURY CEMENT

Century Cement Limestone Mine
(Captive Mine)
Environment Management
Our inheritance 1971

BARREN LAND ALL AROUND
DENSE AFFORESTATION
WITHIN MINING LEASE ABOUT 2 LAC IN 97 HECT. AREA
DENSE AFFORESTATION
OUTSIDE MINING LEASE ABOUT 3.1 LAC TREES IN 164 HECT. AREA
Dust Suppression Arrangement

Permanently installed Sprinklers
106 sprinklers along on Haul Roads (Around 2200 Mts. Road)

Use of Rain Gun at Loading Place
Mineral Conservation
Initially, in 1971

Cement Grade Limestone Reserve proved : 22.01 Million Tonnes

ROM Grade of Limestone : CaO >45.0%
                        MgO <1.0%

Which was sufficient only for 20 years with then capacity of Cement Plant.
AS ON DATE:

After 45 years & consumed about 49 Million Tonnes of Limestone,

Cement Grade Limestone Reserve available: 19.35 Million Tonnes

PRESENT ROM Grade of Limestone: CaO > 41.5%
                                              MgO < 3.0%

This is achieved by:-

1. Bringing down the required ROM quality with technical improvements in Cement Plant viz. use of pet coke, finer grinding, switch over to PPC in place of OPC etc.
2. Reassessing the Reserve through detailed exploration of mining lease area.
3. Reclamation of old low grade stock and consuming its limestone by dry beneficiation (Wobbling).
4. Consumption of low grade limestone by blending with sweetener grade purchased limestone.
5. Use of indigenously developed portable screen for consumption of contaminated limestone.
Reclamation & Rehabilitation
Old mined out pit has been converted into a beautiful lake and picnic spot.
This lake serves as water reservoir (Capacity 200MG) and is the only source of water for Cement Plant, Power Plant, Residential Colony and nearby villages.
PICNIC SPOTS NEAR MINED OUT PIT

Rehabilitated into a water reservoir and a beautiful picnic spot
At present about 9 Hect. Area has been reclaimed by backfilling out of which about 4.5 Hect. Area has been rehabilitated with dense afforestation (about 9000 plants).
Water Management
WATER MANAGEMENT SYSTEM

- Mine Sump
- Pump Discharge
- Open Aqua Duct
- Overhead water tank
- Filtration Plant
- Water Reservoir
Water Conservation

ACC Plant at Thermal Power Plant
(Water saving about 1350 KLD)

Sewage Treatment Plant
(2 X 250 KLD)

Rain Water Harvesting Pits

Club
School
College
Mines Workshop
Corporate Social Responsibilities

More than 1714 surrounding BPL villagers have been trained in VTC since 1994

More than 10000 villagers from surrounding villages are being benefitted every year
Corporate Social Responsibilities

A huge Pond deepening and beautification work done at village Kundru (2016)

Hand pump at Village – Jalso

Pond Deepening work at Bahesar Village (2015)

Mukti Dham, Village - Jalso
Swachha Bharat Abhiyan

At Mines Workshop

At Baikunth Railway Station

Construction of toilets at Village Kodwa
And The Efforts Continue...