

HINDALCO INDUSTRIES LIMITED

Muri, Jharkhand



CII-GBC WATER EXCELLENCE AWARD –2007

BEYOND THE FENCE



Integrity

Commitment

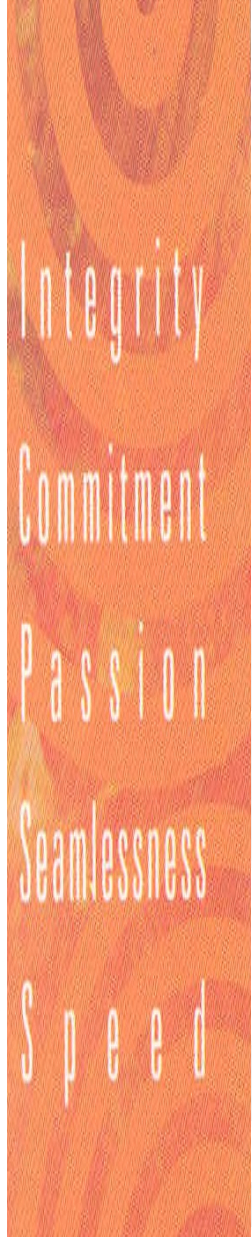
Passion

Seamlessness

Speed

COMPANY PROFILE

- **HINDALCO, MURI** is an Aditya Birla Group Company in Alumina Business
- Located in Jharkhand (at the border with West Bengal)
- Started operation in 1948 with 10,000 T/year capacity
- Presently expanding from 1,25,000 to 5,75,000 T/Annum
- Only industry in the 50 Kms radius for seven decades
- Employing more than 800 local people. The 3rd generation is working in the unit today
- The unit has its own power plant – The SEB does not have infrastructure here



Alumina Manufacturing Process

HIGHLY
WATER
INTENSIVE
MANUFACTURING
PROCESS



HINDALCO, MURI – SITE LOCATION

- A perennial river flows just along the Muri town
- No competing users for water other than Hindalco around Muri
- Border state – West Bengal is just across the river and poorly developed
- High tribal population and inflicted with extremism
- Locals take only one crop during monsoon
- A dam upstream ensures perennial water flow throughout the year

Hindalco Industries Limited, Muri

River
Subarnarekha

WATER IS IN ABUNDANCE TO
MEET THE NEEDS at Muri

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Pointer 23°22'45.28" N 85°52'25.09" E elev 817 ft Streaming 100%

Eye alt 4777 ft



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WHY CONSERVE WATER ?

- Agriculture is main source of income for the native people
- Fishery is source of favorite food and income
- Subarnarekha river is the life line of Jharkhand
- Industrial growth in Jharkhand has increased the demand from Subarnarekha – Conserve for future growth
- Ranchi is growing exponentially and depends on Subarnarekha
- Lack of infrastructure for drinking water, health and sanitation in the region
- Local people perceive Hindalco as a friend?



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HINDALCO's GOAL FOR MURI

- Facilitate Good health and sanitation
- Improve education and livelihood opportunities
- Conserve natural resources for future generations
- Encourage entrepreneurship
- Preserve the social and cultural fabric of the region

STRECHING BEYOND THE FENCE - FOR WATER



Deep seepage wells constructed to source water from the saturated river bed for the operations that was otherwise lost in evaporation. No stress on river water and competing users

STRECHING BEYOND THE FENCE - FOR WATER



Construct Check dams to store runoff water

Construct ponds in the community against runoff

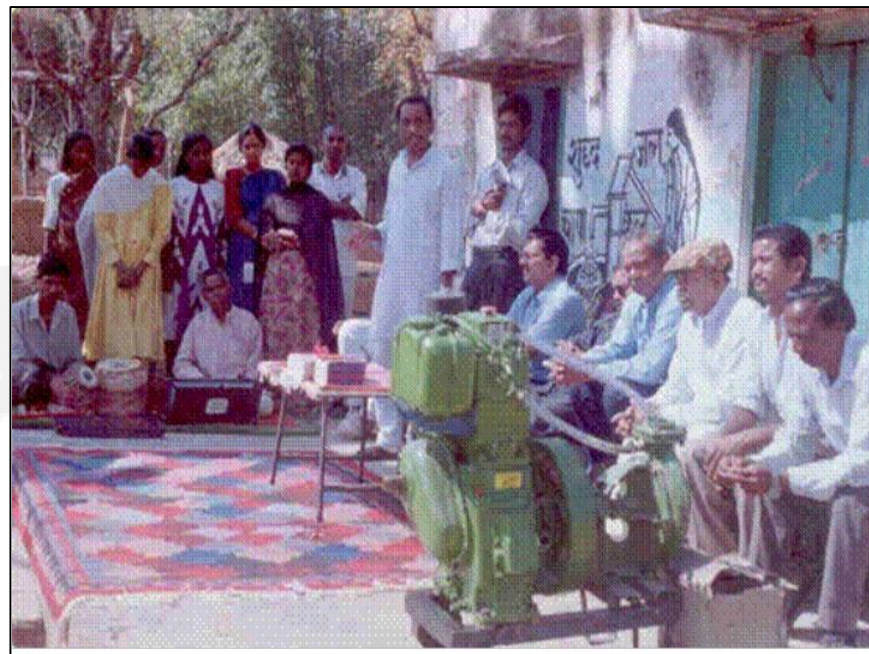


STRECHING BEYOND THE FENCE FOR WATER



- Provide canals for irrigation and encourage double cropping-optimize utilisation of water

- Pumps and diesel set for agricultural use of harvested water



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STRECHING BEYOND THE FENCE - FOR WATER



Fishing in the river and ponds



Using water at the check dams



Check dam water for agriculture



Nursery from Harvested water

STRECHING BEYOND THE FENCE - FOR WATER



- Entire domestic effluent from the township and plant treated and recycled –though there is consent to discharge

- Entire Process effluent treated and recycled – though there is consent to discharge



STRECHING BEYOND THE FENCE- FOR WATER



- Treated effluents reused for low end requirements – Stress on fresh water reduced

STRECHING BEYOND THE FENCE - FOR WATER



- Domestic water supplied through pipelines to adjoining village

STRECHING BEYOND THE FENCE - FOR WATER



- Support community in check dam construction and water conservation

- Open well construction for community use and water security



STRECHING BEYOND THE FENCE - FOR WATER



Children participating in water conservation drive



STRECHING BEYOND THE FENCE - FOR WATER

Educating and training people to practice water conservation



HINDALCO



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HINDALCO's DIRECTION FOR FUTURE

HINDALCO Corporate Social Responsibility Policy

