"Health of the Hills is Wealth of the Plains"

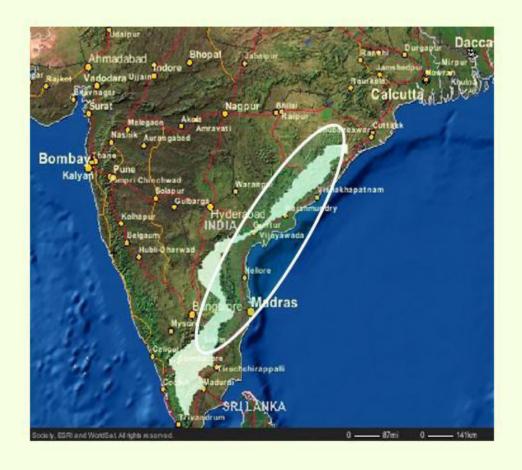
The Eastern Ghats

... our lives depend on them

Where are the Eastern Ghats?



All along the East Coast



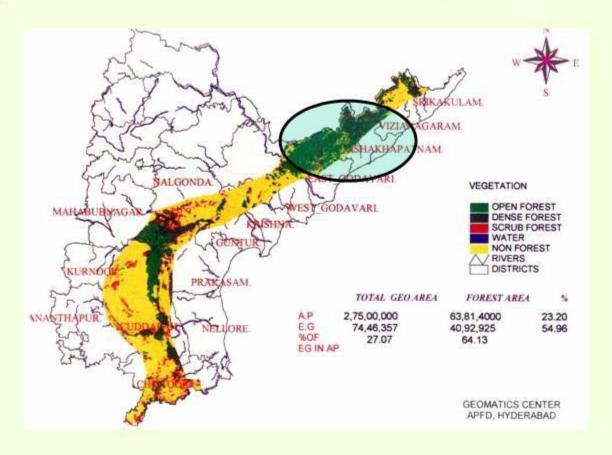
The Eastern Ghats of North Andhra Pradesh



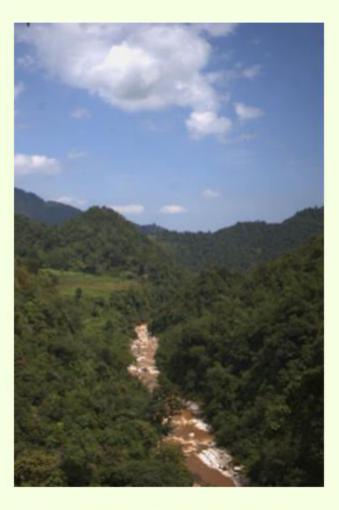
The ghats of Srikakulam, Vizianagaram, Vizag & East Godavari Districts



Vegetation in the Eastern Ghats

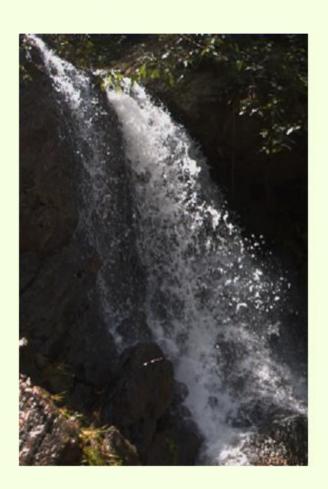


Blessed & life giving hills



Health of the Hills is the Wealth of the Plains

Source of life giving water





Springs everywhere



Valleys that have nurtured tribes for thousands of years





Hills and valleys ... God's gift to us





More about the ghats

- Orissa, Andhra and Tamil Nadu
- Godavari, Mahanadi, Krishna and Kauveri pass through the ghats
- Long stretch of contiguous forest in East Godavari



Land of tribes

• Ethnic tribes inhabit Orissa, Chattisgarh and

Andhra Pradesh





A rich land of biodiversity





- These ghats are a home to several unique flora and fauna.
- A source of biodiversity to be handled with care for future generations

Mineral wealth a boon or bane?



Picture of Galikonda

Bauxite Deposits

Galikonda - 14.5 Million tons

Raktakonda - 8.5 Million tons

Chittamgondi - 28.0 Million tons

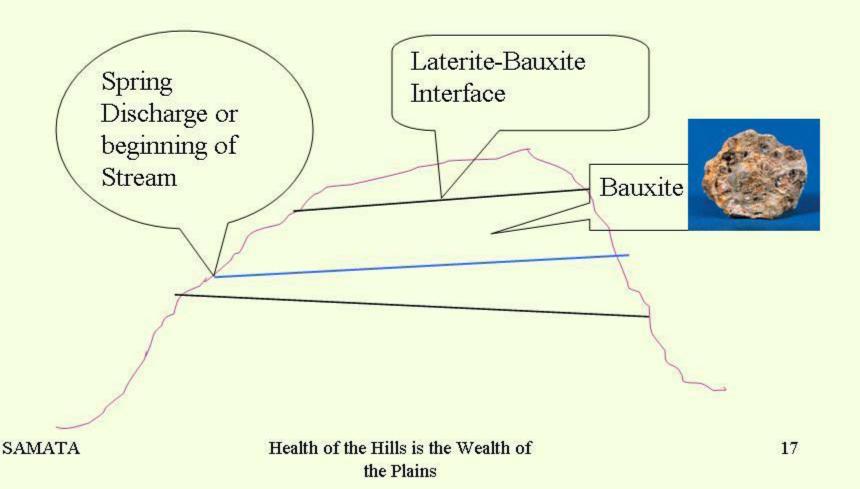
Sapparla - 186.25 Million tons

Gudem - 38.41 Million tons

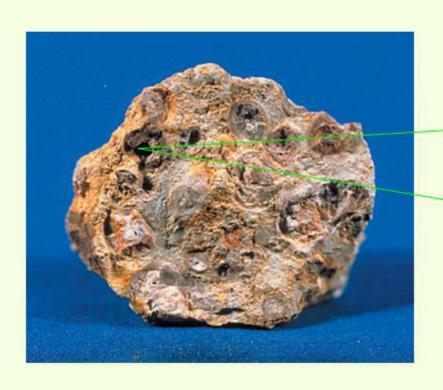
Jerrela - 246.04 Million tons

Gurtedu - 42.63 Million tons

Schematic Diagram of Bauxite and Water Resources

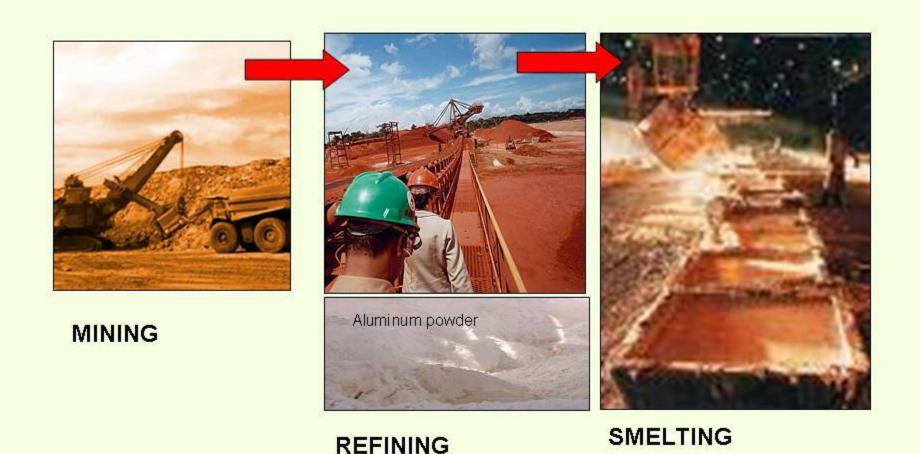


Bauxite retains water



The concretionary nature of bauxite (pisolitic and oolitic) makes it an excellent rock for retention of water.

Bauxite to Aluminum

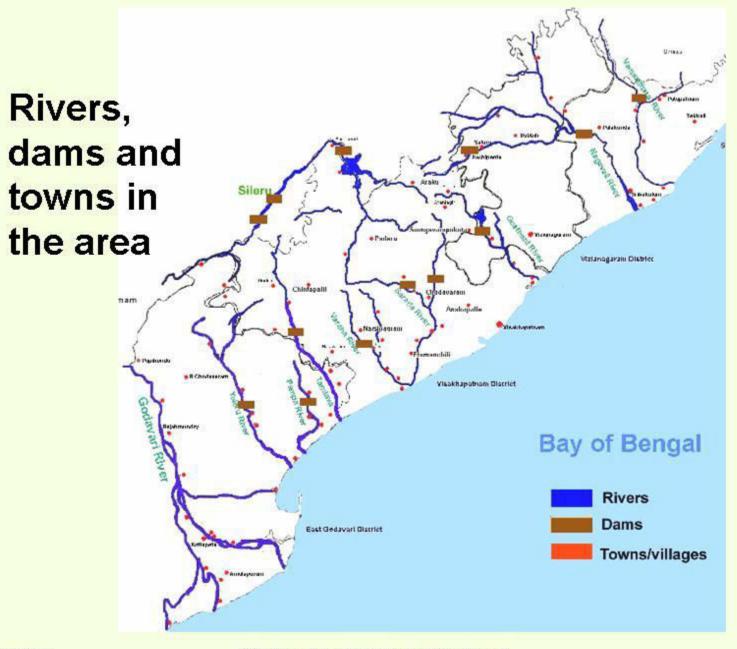


SAMATA

Health of the Hills is the Wealth of the Plains

Plans of the Govt

- Bauxite mining
- Alumina refinery
- Aluminum smelter
- Support housing and infrastructure
- ALL NEED WATER



Reservoirs in Vizag and East Godavari

Vizag

- Ramanapalli
- Thandava
- Raiwada
- Meghadrigedda
- Konam
- Gambhiragedda
- Pedduru
- Kalyanlova

East Godavari

- Maddigadda
- Yeleru
- Surampalem
- Seethapallivagu
- Pampa
- Suddagedda
- Thandava
- Bhoopathipalem

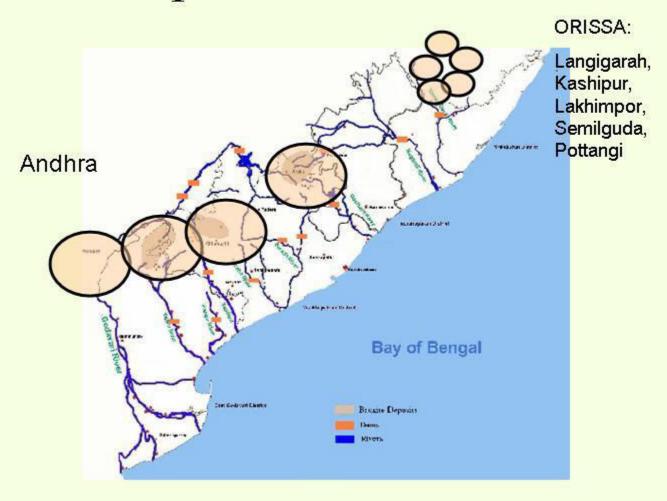
Reservoirs in Vizianagaram & Srikakulam

- Vegavathi
- Vengala Raya Sagaram
- Vottigedda
- Andra
- Denkada
- Peddagedda
- Seethanagaram
- Tarakarama Thirtha Sagaram
- Thatipudi
- Pedankalam
- Thotapalli
- Janjhavati

Srikakulam

- •Vamsadara 1
- •Vamsadara 2
- •Muddavalsa
- •Narainpuram Annicut
- Thotapali Regulator
- •Pydigam Project

Bauxite deposits in river catchments



Water needs of proposed Bauxite Mining operations

| Location | Operations | Water Consumption Per Day | Reserves | Life of Operation | Water per Year Cu M | Water for life of mine Cu M |
|-------------|------------|---------------------------------|----------|----------------------|---------------------------|-----------------------------------|
| Galikonda | Mining | 142.00 | 14.50 | 10 | 51,830 | 5,18,300 |
| Rakthakonda | Mining | 106.00 | 8.50 | 10 | 38,690 | 3,86,900 |
| Chitamgondi | Mining | 186.00 | 28.00 | 12 | 67,890 | 8,14,680 |
| Sapparla | Mining | 1,300.00 | 186.25 | 25 | 4,74,500 | 118,62,500 |
| Gudem | Mining | 255.00 | 38.41 | 15 | 93,075 | 13,96,125 |
| Jerrela | Mining | 1,625.00 | 246.04 | 40 | 5,93,125 | 237,25,000 |
| Gurtedu | Mining | 275.00 | 42.63 | 15 | 1,00,375 | 15,05,625 |

14,19,485 402,09,130

Water requirements for Bauxite alone per annum

- For seven bauxite mines 14.20 Lakh cu meters!
- For just one Refinery 146 Lakh cu meters!!
- For just one Smelter 32.50 Lakh cu meters!!
- For 7 mines + 1 Refinery + 1 Smelter
- Total 192.70 Lakh cu meters per year

How much is that?

- 1 cu meters of water = 1,000 liters
- Water for bauxite industry 192.70 Lakh cu meters
- This equals to $192,70,000 \times 1,000 =$
- 192,70,000,000 Liters per year
- Recommended human need 50 Liters per day or 18,250 liters per year

How much?

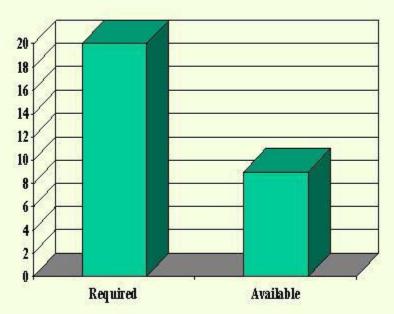
Therefore mining water is enough for a population of 10,56,000
 persons for 1 year



Enough water for a large Indian city

Projected annual water requirements versus availability from existing sources





This projection is based on five bauxite mining complexes get operational as per APMDC intentions

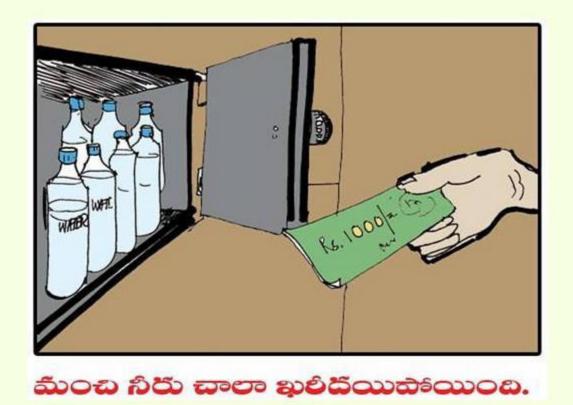
That's not all!

- Memorandum of Understanding already signed with Jindal & RAK
- Awaiting clearance: NALCO, Essar Gujrat
 & BHP Billeton
- How many more do we need to destroy our state?

Deficit in supply for different horizon years for Vizag

| Year | Projected Population in Lakhs | Water Demand in MGD | Present Available in MGD | Deficit in MGD |
|------|-------------------------------------|---------------------------|--------------------------------|-------------------|
| 2006 | 19.25 | 87.00 | 40.00 | 46.75 |
| 2010 | 22.80 | 97.70 | 40.00 | 57.45 |
| 2020 | 26.70 | 124.00 | 40.00 | 83.75 |

Imagine what we will be paying for water!



Health of the Hills is the Wealth of the Plains

Waste management & pollution

- Waste management
 - 4/5th of the mined materials will be wasted in the process from bauxite to aluminum

Water pollution by industry will reduce drinking water

availability





Health of the Hills is the Wealth of the Plains

Before & After destroying our environment



What is the best choice?

- Mining should be the last resort for the use of land.
- Much greater wealth for human kind above these minerals,
- A single life saving plant is worth much more than all the minerals
- Let Bauxite stay in the hills like a fixed deposit for future
- Wiser generations may know how to mine without depleting our water

We can do without mining

- National policy of what has to be mined and what should not be mined, from the interest of the people rather than the Markets and the Industry.
- Progressive nations should go beyond economics of the market place and understand global stewardship
- Minimizing mining replace non renewable with renewable

We need two Earths by 2050!



 As we need two earths to satisfy our present consumption pattern by 2050 (Recent report by WWF)

Keep mining out of our life giving hills!



Together we can do it

- The minerals will be forever - if we do not mine them
- The wealth above will never be ours - if we mine them



Sign the petition so that our voice may be heard



సంతేకాలుచేసి ప్రజావాణిని ప్రభుత్వమునేకు వినిపిద్దాం. నేబిజలాలను పేలరక్షిద్దాం. మేమేగడుకాసం ఉద్యమిద్దాం !

Yes, the health of the hills is the wealth of the plains

