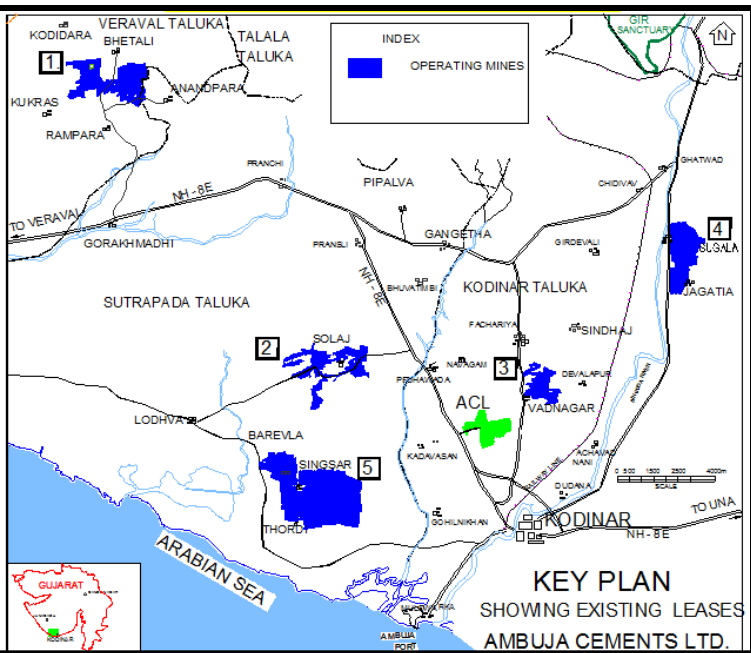


Reclamation Practices at Ambuja Cements Ltd, Gujarat

Key Plan Showing ML areas



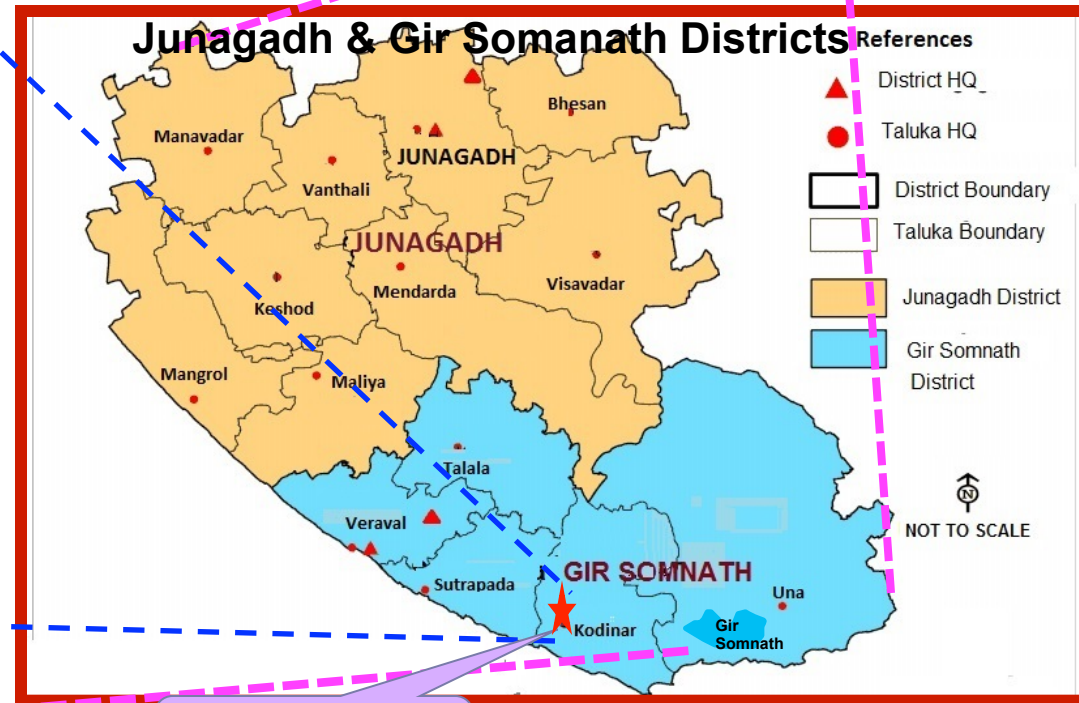
Ambuja Cement

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GUJARAT



Junagadh & Gir Somanath Districts



Ambuja Cements Ltd

Content

Reclamation work at Ambuja Cements Ltd.

- A. Conversion into Pasture Land/Agrifarming
- B. Water harvesting
- C. Construction of Plant on reclaimed pits



(A) Conversion into Pasture Land/Agrifarming

Total Pasture land/Agrifarming converted area : 81.4128 Ha.

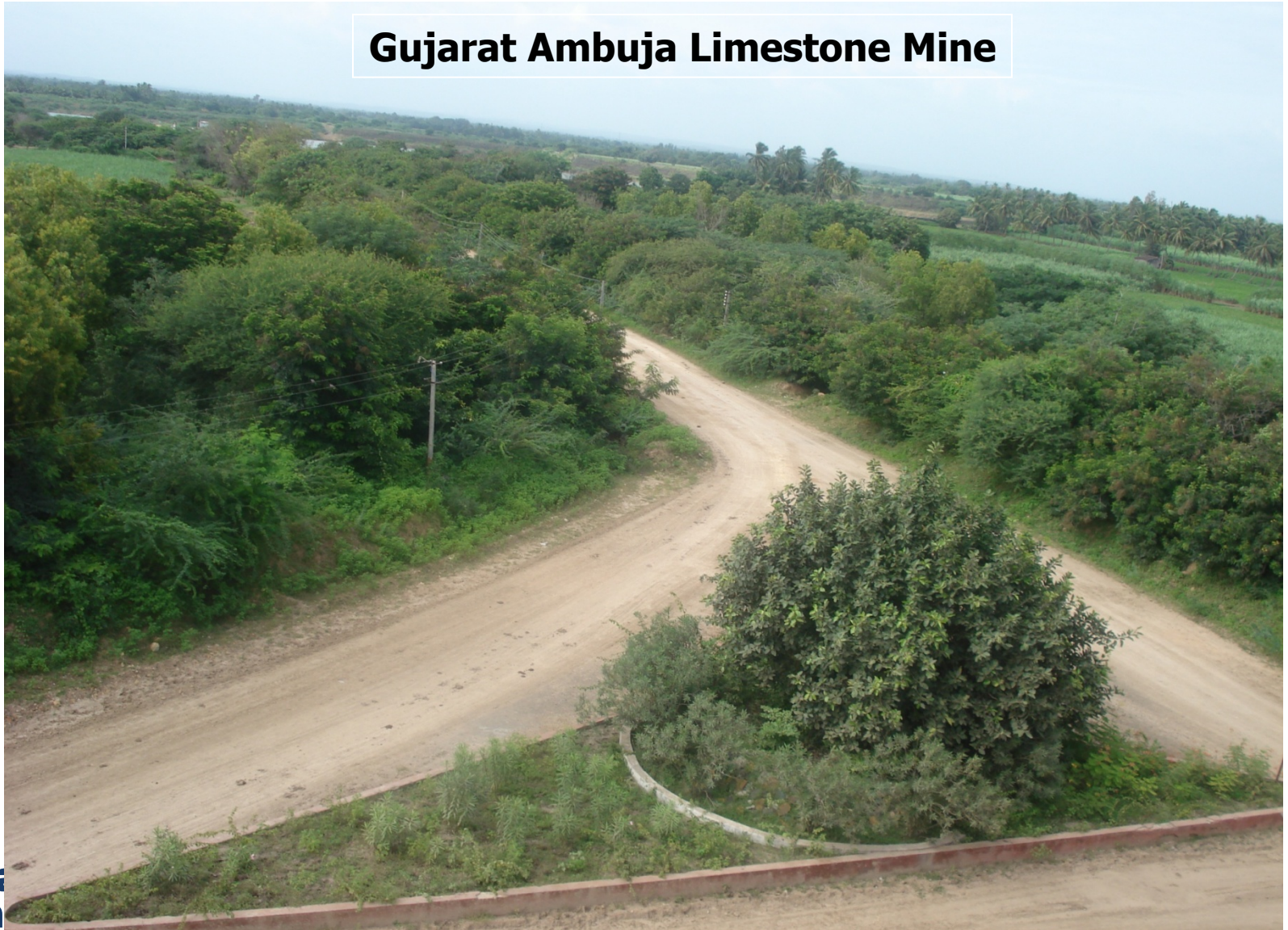


(A) Conversion into Pasture Land/Agrifarming



(A) Conversion into Pasture Land/Agrifarming

Gujarat Ambuja Limestone Mine



(A) Conversion into Pasture Land/Agrifarming

RKBA Mine : 27 Ha



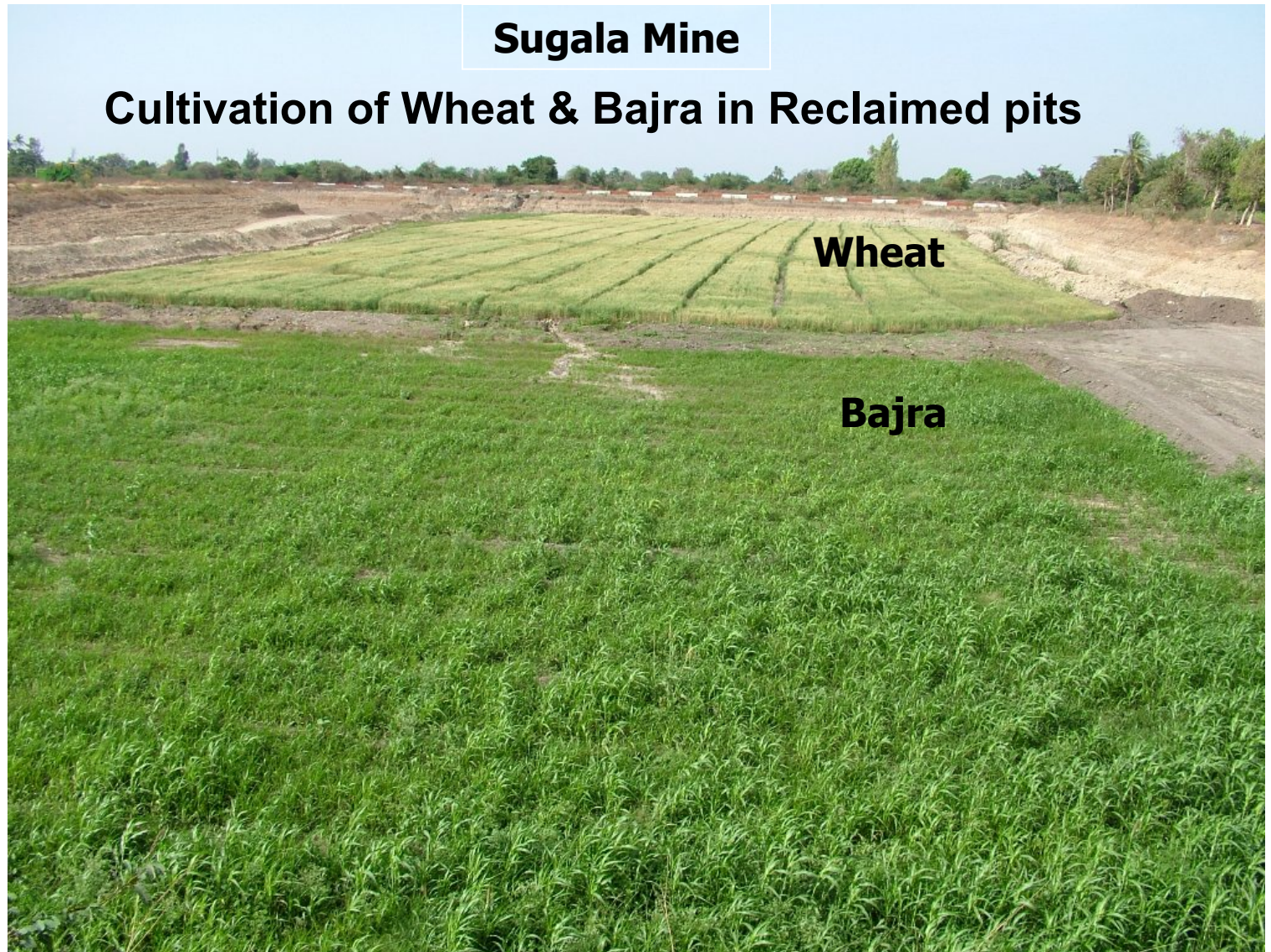
(A) Conversion into Pasture Land/Agrifarming



(A) Conversion into Pasture Land/Agrifarming



(A) Conversion into Pasture Land/Agrifarming



(B) Water harvesting :

Total Water storage : 47.43 Lac cubic meters

Sl No	Name of Mine	Water Storage (Lac Cubic meters)
1	GALM	9.81
2	Solaj	11.18
3	Sugala	12.76
4	RKBA	5.95
5	Singsar	7.73
Total		47.43



(B) Water harvesting :

Gujarat Ambuja Limestone Mine



(B) Water harvesting :

Interconnection of mined out pits.



Channel formation along lease periphery to get dry area for mining



Connectivity of Working Pit by Hume Pipe to drain out water.



Nallah (1.5km length ,1.5mtr depth and 5 to 6mtr width) deepened and connected with mining pits to smoothly discharge rain water as well as seepage through canal into Sangawadi river.

(B) Water harvesting :

Interconnection of mined out pits.



Arrangement for diversion of water from one pit to another in Vadnagar village Surrendered Mines.

(B) Water harvesting :

Canal water entering in the mined out pits



(B) Water harvesting :

Rain Water in Pits used by Villagers for Agriculture upto 6 kms



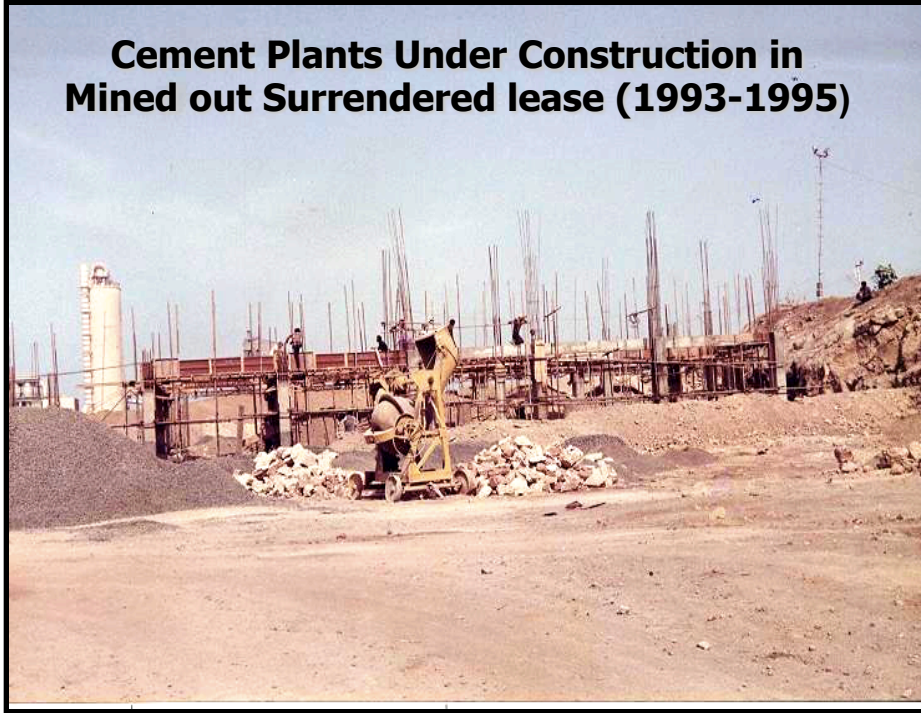
(B) Water harvesting :

Reservoir in Mined Pit



(C) Construction of Plant on reclaimed pits

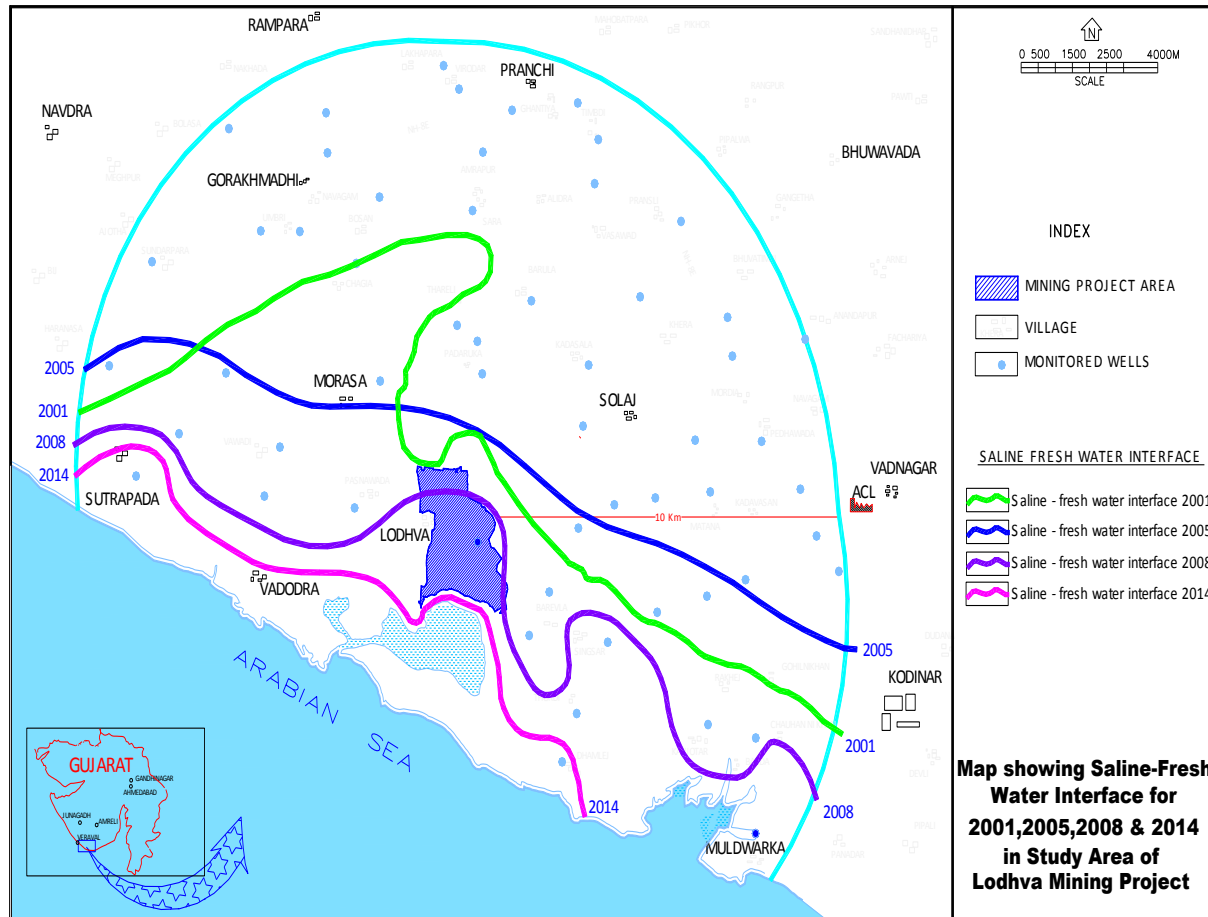
**Cement Plants Under Construction in
Mined out Surrendered lease (1993-1995)**



**Sewage Water Reclamation Plant
in mined out pit (15 Lac lpd)**



Outcome of our Actions : Salinity Reduction



TDS

Significant Reduction of TDS ,Varying by 1000 or less in inland areas and 5000 ppm in Coastal Area

Ground Water Data

Rise of Ground Water Level by 2 to 12 meters in Central part of Singhoda and Somat River Basin (May 1988 to 2008)

Salinity Interface Movement

Saline Fresh Water interface moved considerable towards sea side during study period of 2001 to 2014.

Water Positive

Ambujanagar has been declared **7.7 times** water positive by external auditors, which has resulted in enhancement in crop yield in surrounding area.

Thank You

Visiting Birds at Mines