Reclamation Practices at Ambuja Cements Ltd, Gujarat

Key Plan Showing ML areas

Junagadh & Gir Somanath Districts

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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.

Stage - I
Preparatory work under progress for Pasture Land Preparation

Stage - II

Stage - III

Stage - IV
Well grown grass (fodder) land
(A) Conversion into Pasture Land/Agrifarming

Gujarat Ambuja Limestone Mine: 12 Ha
(A) Conversion into Pasture Land/Agrifarming
(A) Conversion into Pasture Land/Agrifarming

RKBA Mine : 27 Ha
(A) Conversion into Pasture Land/Agrifarming
(A) Conversion into Pasture Land/Agrifarming

Sugala Mine : 31Ha
(A) Conversion into Pasture Land/Agrifarming

Sugala Mine

Cultivation of Wheat & Bajra in Reclaimed pits

Wheat

Bajra
(B) Water harvesting:

Total Water storage : 47.43 Lac cubic meters

<table>
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<th>Sl No</th>
<th>Name of Mine</th>
<th>Water Storage (Lac Cubic meters)</th>
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<tr>
<td>1</td>
<td>GALM</td>
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<tr>
<td>2</td>
<td>Solaj</td>
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<td>Sugala</td>
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<td>RKBA</td>
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<td>5</td>
<td>Singsar</td>
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<td>Total</td>
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(B) Water harvesting:

Gujarat Ambuja Limestone Mine
(B) Water harvesting:

Interconnection of mined out pits.

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