

# INTENSIVE COURSE ON CSEB IN ISRAEL

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A one-week intensive course on the production and use of CSEB was conducted at Tel Aviv, Israel from the 7<sup>th</sup> to 12<sup>th</sup> May 2006. This course happened on the request of AnyWay.

AnyWay Solid Environmental Solutions is an Israeli company with branches world wide, which is doing stabilised earth roads. They developed a stabiliser, RBI Grade 81, for making these roads and it works apparently very well with a very wide range of soils.

Mr. Radan Reis and Mr. Yoram Barsinai were sent to Auroville by AnyWay in January 2006, for following an intensive course on the production and use of CSEB and AnyWay purchased an Auram press 3000. They wanted to use it for introducing the CSEB technology in Israel and later on for doing some development projects in Africa.

18 trainees attended the training course at the kibbutz of Herzeliya, near Tel Aviv. 13 architects and 5 builders/technicians enjoyed making CSEB, precasting a composite lintel and building a small wall with various bond patterns.

Beside the training course, Satprem was requested to analyse the experiments conducted by Mr. Radan Reis and to elaborate a research programme by using this stabiliser RBI Grade 81 for making compressed stabilised earth blocks.

## ONE-WEEK PROGRAMME – PRODUCTION AND USE OF CSEB AT HERZELIYA

- Diversity, universality of earth architecture - Building with earth in Auroville (Power point presentations)
- Sustainability and environmental friendliness – Basic data on CSEB – Raw material
- Particular earth techniques (Power point presentation)
- Soil stabilization principles and calculation
- Soil identification (field tests with sensitive analyses and density check up)
- Improving and stabilising soils – Blockyard organisation – Quality control principles
- Block-laying & design guidelines
- Bonds for various walls (straight, corner, T & X)
- Handling & maintenance of the press – Safety and demonstration – Changing plates and moulds
- Production of plain blocks 245 and quality control
- Pre-casting a composite lintel
- Ramming a stabilised rammed earth foundation
- Building a basement with the blocks 245
- Casting a composite plinth beam (RCC in U blocks 245)
- Building a wall with various bond patterns with the blocks 245