

STUDY ON COMPATIBILITY AND FIELD INVESTIGATION OF INTER LOCKING CONCRETE BLOCKS OVER PERIODICALLY DISTRESSED ROAD SECTIONS IN KERALA

PROJECT INVESTIGATORS: DR. SATHEESH CHANDRAN R,
DR. M.SATYAKUMAR, DR. ANIL.R

TRC 12 - CET RP 7

OBJECTIVES

The objectives of the study are,

- Compatibility of ICBP on severely distressed road sections of recurring nature.
- Alternate material in place of bedding sand(As per code provision IRC) as it is costly and scarce.
- Research Incorporation of using 4mm aggregate as an alternative to river sand or M Sand.
- Remedy against water logging issues in road sections
- Successful incorporation of Geo textiles for sub surface drainage in ICBP sections

FIGURES



Fig.1. Condition of road after rain in Vakkom Market Jn



Fig.2. Condition after the construction using Interlocking concrete Blocks at Vakkom Market Jn.



Construction of ICBP at Channankara using Coir Geo Textile



Condition after the construction using Interlocking concrete Blocks at channankara

STUDY ON COMPATIBILITY AND FIELD INVESTIGATION OF INTER LOCKING CONCRETE BLOCKS OVER PERIODICALLY DISTRESSED ROAD SECTIONS IN KERALA

PROJECT INVESTIGATORS: DR. SATHEESH CHANDRAN R,
DR. M. SATYAKUMAR, DR. ANIL.R

TRC 12 - CET RP 7

OUTCOME

M-TECH PROJECTS (1 No's)

1. "Interlocking Concrete Block Pavements: A case study", 2013

PUBLICATIONS (1 No's)

1. M Satyakumar, R Satheesh Chandran, Anil.R and Jayasankar Shaji, "Interlocking Concrete Block Pavements: A case study", Colloquium on Transportation Systems Engineering and Mngement CTR, CED, NIT Calicut, 2014.

FIELD IMPLEMENTATION

PWD Kerala has accepted the project as such and made it mandatory to construct the severely distressed section which was deteriorated in a recurring manner using ICBP and extensively they (PWD) have constructed ICBP sections through out Kerala.

INVITED LECTURES ON ICBP

1. Talk on "Interlocking Concrete block pavements for Rural roads" for the two days workshop on Alternative materials and new technologies for rural road construction organized by Centre for Transportation Research, Department of Civil Engineering, National Institute of Technology, Calicut during April 10-11 , 2015 (10th Apr2015) by Dr. Anil R.
2. Engaged classes for Engineers from Kerala state PWD, LSGD and KSRRDA, on "Remedial application for periodically distressed road sections in Kerala by ICBP" in association with KHRI and organized by Transportation Research Centre, Transportation Engineering Division, Department of Civil Engineering, College of Engineering Trivandrum. 19th Dec2013 by Dr. Anil R.



Inauguration of ICBP jointly constructed by TRC & PWD by Mr. B.Satyan MLA



News on construction of ICBP @ Vakkom on 28th Nov2013