

CERTIFICATE

This is to certify that corrections suggested by the examiners were incorporated in the thesis titled **“BEHAVIOUR OF COLD-FORMED STEEL BEAM WITH CONCRETE ENCASED TRAPEZOIDALLY CORRUGATED WEB”** submitted by **Mr. R. DIVAHAR**, Ph.D Scholar.

Place : Chennai 603103

Date :

Dr. P.S. JOANNA

(SUPERVISOR)

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Ph.D.	PT
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HINDUSTAN INSTITUTE OF TECHNOLOGY & SCIENCE
Chennai - 603 103
PROCEEDINGS OF THE Ph.D. VIVA-VOCE EXAMINATION OF
MR. R.DIVAHAR, PH.D SCHOLAR, DEPARTMENT OF CIVIL ENGINEERING
HELD AT 11.00 A.M. ON 17.08.2015 IN PADUR HALL,FOUNDERS BLOCK,
GROUND FLOOR, HITS, PADUR – 603 103.

The Ph.D.Viva-Voce Examination of Mr. R.Divahar (Reg. No. CE1003) on his Ph.D. Thesis Entitled "**Behaviour of Cold-formed steel beam with concrete encased Trapezoidally corrugated web**" was conducted on 17.08.15 at 11.00 A.M. in the Department of Research and Consultancy HITS , Padur 603 103.


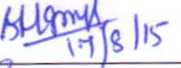
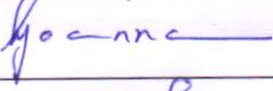
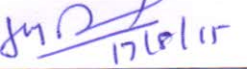
The following Members of the Oral Examination Board were present:

- 1 Dr.S.Vishnuvardhan, Scientist, Structural Engg. : Indian Examiner
 Fatigue Fracture Laboratory, CSIR-Structural Engg.
 Research Centre, Tharamani, Chennai – 600 113
- 2 Dr. S.Annee Ligoria, Professor (Civil) : Expert Member
 Jerusalem College of Engineering, Velacherry main
 Road, Narayanapuram, Pallikaranai, Chennai – 600 100
- 3 Dr. P.S. Joanna : Supervisor
 Prof (Civil), HITS

The research scholar, **Mr. R. Divahar** presented the salient features of his Ph.D. work. This was followed by questions from the board members. The questions raised by the Foreign and Indian Examiners were also put to the scholar. The scholar answered the questions to the full satisfaction of the board members.

The corrections suggested by the Indian/Foreign Examiner have been carried out and incorporated in the Thesis before the Oral examination.

Based on the scholar's research work, his presentation and also the clarifications and answers by the scholar to the questions, the board recommends that **Mr. R.Divahar** be awarded Ph.D. degree in the Dept. of Civil Engineering.

S.No	Board of members	Signature	Designation
1	Dr.S.Vishnuvardhan	 17.08.15	Indian Examiner
2	Dr. S.Annee Ligoria	 17/8/15	Expert Member
3	Dr. P.S.Joanna		Supervisor
4	Dr. Jessy Rooby	 17/8/15	Head of the Dept

**HINDUSTAN INSTITUTE OF TECHNOLOGY AND SCIENCE (HITS)
CHENNAI – 603 103**

BONAFIDE CERTIFICATE

Certified that the thesis titled **“BEHAVIOUR OF COLD-FORMED STEEL BEAM WITH CONCRETE ENCASED TRAPEZOIDALLY CORRUGATED WEB”** is the bonafide work of **Mr. R. DIVAHAR** who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other scholar.

Place : Chennai 603103

Date :

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