

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241024364 A

(19) INDIA

(22) Date of filing of Application :25/04/2022

(43) Publication Date : 27/05/2022

(54) Title of the invention : METHOD FOR DETERMINATION OF FLEXURAL BEHAVIOUR OF REINFORCED CONCRETE BEAMS

<p>(51) International classification : E04G0023020000, G01N0003200000, E04C0003290000, E04B0001160000, E04C0005070000</p> <p>(86) International Application No : PCT// Filing Date : 01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number : NA Filing Date : NA</p> <p>(62) Divisional to Application Number : NA Filing Date : NA</p>	<p>(71)Name of Applicant : 1)Omni Suresh Address of Applicant :Assistant professor, Department of Civil Engineering, Dadi Institute of Engineering and Technology, Anakapalle, Visakhapatnam- 531002, Andhra Pradesh, India -</p> <p>-----</p> <p>2)Sonal Banchhor 3)Ms. Shilpi Sippi Bhuinyan 4)Dr. Vinay Kumar Gaddam 5)Sanjith J 6)Dr Kiran B.M 7)Dr. C. Venkata Siva Rama Prasad 8)Mr. Jash Nimesh Kansara Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Omni Suresh Address of Applicant :Assistant professor, Department of Civil Engineering, Dadi Institute of Engineering and Technology, Anakapalle, Visakhapatnam- 531002, Andhra Pradesh, India ----</p> <p>-----</p> <p>2)Sonal Banchhor Address of Applicant :Assistant Professor, Department of Civil Engineering, Guru Ghasidas Central University, Bilaspur, Chhattisgarh. India -----</p> <p>3)Ms. Shilpi Sippi Bhuinyan Address of Applicant :All India Shri Shivaji Memorial Society's College of Engineering, Pune-411001, Maharashtra, India -----</p> <p>4)Dr. Vinay Kumar Gaddam Address of Applicant :Associate Professor, Department of Civil Engineering, Dhanekula Institute of Engineering and Technology, Vijayawada-521137, Andhra Pradesh, India -----</p> <p>-----</p> <p>5)Sanjith J Address of Applicant :Assistant Professor, Department of Civil Engineering, Adichunchanagiri Institute of Technology, Chikmgalaur – 577102, Karnataka, India -----</p> <p>6)Dr Kiran B.M Address of Applicant :Associate Professor, Department of Civil Engineering, Adichunchanagiri institute of Technology, Chikmgalaur- 577102, Karnataka, India -----</p> <p>-----</p> <p>7)Dr. C. Venkata Siva Rama Prasad Address of Applicant :Assistant Professor & Head of the Department, Department of Civil Engineering, St. Peter's Engineering college (Autonomous), Dhulapally, Maisammaguda, Medchal (Dist), Hyderabad-500100., Telangana, India -----</p> <p>8)Mr. Jash Nimesh Kansara Address of Applicant :Assistant Professor, Sankalchand Patel University, Sankalchand Patel Vidyadham, Ambaji-Gandhinagar State Highway, Visnagar, Mehsana-384315, Gujarat, India -</p>
---	---

(57) Abstract :
METHOD FOR DETERMINATION OF FLEXURAL BEHAVIOUR OF REINFORCED CONCRETE BEAMS The present invention relates to method for determination of flexural behaviour of reinforced concrete beams. The method includes testing of three beams which are designed as under reinforced beam (URB), balanced reinforced beam (BRB) and over reinforced beam (ORB). The present method also involves observing the load carrying capacity, moment carrying capacity, and crack pattern, failure of the beam either ductile or brittle. The under reinforced beams (URB) and balanced reinforced beams (BRB) failed in flexure exhibited ductile behavior. Whereas, over reinforced beams (ORB) failed in shear.

No. of Pages : 27 No. of Claims : 7

