

(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202041034800 A

(19) INDIA

(22) Date of filing of Application : 13/08/2020

(43) Publication Date : 04/09/2020

(54) Title of the invention : DEVELOPMENT OF BENDABLE CONCRETE USING FIBERS

(51) International classification	:B28B1/52	(71)Name of Applicant :
(31) Priority Document No	:NA	1)MrV.Rajesh
(32) Priority Date	:NA	Address of Applicant :Assiant Professor/ Civil St. Martin's
(33) Name of priority country	:NA	Engineering College, Dhulapally, Secunderabad-500100
(86) International Application No	:NA	Telangana India
Filing Date	:NA	2)MrM.Venugopal
(87) International Publication No	:NA	3)Dr. P. Santosh Kumar Patra
(61) Patent of Addition to Application Number	:NA	4)Dr. D.V. Sreekanth
Filing Date	:NA	5)B.Bhanu Prasad
(62) Divisional to Application Number	:NA	6)GajulaVenkatesh
Filing Date	:NA	7)C Balakrishna
		(72)Name of Inventor :
		1)MrV.Rajesh
		2)MrM.Venugopal
		3)Dr. P. Santosh Kumar Patra
		4)Dr. D.V. Sreekanth
		5)B.Bhanu Prasad
		6)GajulaVenkatesh
		7)C Balakrishna

(57) Abstract :

Bendable Concrete commonly known as Engineered Cementitious Composite (ECC) is an ultra-ductile concrete with strain-hardening and multiple-cracking behaviour in tension and flexure. The Bendable Concrete comprising the a recron 3S fiber volume fraction as 2%-3%, a Super plasticizer as 2%, and water/(cementitious material) ratio fixed out as 0.5, and replacement of fly ash with cement is 30%-40%. The Invention describes the strength characteristics like compressive strength, Flexure strength, Splitting Tensile strength of different Bendable concrete mixtures As the fibers volume increases in the concrete upto some content the strengths are also increased. Keywords: Bendable Concrete, Engineered Cementitious Composites (ECC), Fiber Reinforced Concrete (FRC), PCC.

No. of Pages : 17 No. of Claims : 6