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पेटेंट कार्यालय का एक प्रकाशन
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(54) Title of the invention : PERFORMANCE EVALUATION OF INDIAN SOAPBERRY SAPINDUS MUKOROSI INNER NUTS IN THE PARTIAL SUBSTITUTE MATERIAL OF SAND

<p>(51) International classification :A61K 36/77 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No :NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. K. MOHAN DAS Address of Applicant :PROFESSOR DEPARTMENT OF CIVIL ENGINEERING CMR COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS) KANDLAKOYA, MEDCHAL ROAD, HYDERABAD – 501 401. TELANGANA. INDIA. ----- 2)Dr. S. M. SUBASH 3)Dr. C. SELIN RAVI KUMAR 4)Mrs..E.RANI 5)Mrs. A. YAMINI 6)Dr.A.HEMALATHA 7)Dr.A.ARIVUMANGAI 8)Mrs.R.THARANI 9)Dr. J. VENKATA VARAPRASAD 10)Mr. L. VENKATESWARA RAO Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. K. MOHAN DAS Address of Applicant :PROFESSOR DEPARTMENT OF CIVIL ENGINEERING CMR COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS) KANDLAKOYA, MEDCHAL ROAD, HYDERABAD – 501 401. TELANGANA. INDIA. ----- 2)Dr. S. M. SUBASH Address of Applicant :ASSOCIATE PROFESSOR DEPARTMENT OF CIVIL ENGINEERING GURU NANAK INSTITUTE OF TECHNOLOGY, IBRAHIMPATNAM, R. R. DIST, HYDERABAD,TELANGANA,501506 ----- 3)Dr. C. SELIN RAVI KUMAR Address of Applicant :ASSOCIATE PROFESSOR DEPARTMENT OF CIVIL ENGINEERING MALLA REDDY ENGINEERING COLLEGE(AUTONOMOUS) DULAPALLY ROAD MAISAMMAGUDA POST VIA. KOMPALLY RANGAREDDY DT,SECUNDERABAD, TELANGANA 500100 ----- 4)Mrs..E.RANI Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF CIVIL ENGINEERING DR. M.G.R EDUCATIONAL AND RESEARCH INSTITUTE PERIYAR E.V.R. HIGH ROAD, VISHWAS NAGAR, MADURAVOYAL, CHENNAI, TAMIL NADU 600095 ----- 5)Mrs. A. YAMINI Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF CIVIL ENGINEERING CMR COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS), KANDLAKOYA, MEDCHAL ROAD, HYDERABAD – 501 401. TELANGANA. INDIA. ----- 6)Dr.A.HEMALATHA Address of Applicant :PROFESSOR & HEAD DEPARTMENT OF CIVIL ENGINEERING NPR COLLEGE OF ENGINEERING AND TECHNOLOGY NPR NAGAR, NATHAM, DINDIGUL, TAMIL NADU 624401 ----- 7)Dr.A.ARIVUMANGAI Address of Applicant :ASSOCIATE PROFESSOR DEPARTMENT OF CIVIL ENGINEERING DR. M.G.R EDUCATIONAL AND RESEARCH INSTITUTE PERIYAR E.V.R. HIGH ROAD, VISHWAS NAGAR, MADURAVOYAL, CHENNAI, TAMIL NADU 600095 ----- 8)Mrs.R.THARANI Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF CIVIL ENGINEERING CHRISTIAN COLLEGE OF ENGINEERING AND TECHNOLOGY, PALANI- DINDIGUL MAIN ROAD, ODDANCHATRAM, DINDIGUL DISTRICT-624619. ----- 9)Dr. J. VENKATA VARAPRASAD Address of Applicant :ASSOCIATE PROFESSOR DEPARTMENT OF CIVIL ENGINEERING NARSIMHA REDDY ENGINEERING COLLEGE HANUMAN TEMPLE RD, MAISAMMAGUDA, KOMPALLY, SECUNDERABAD, TELANGANA 500100 ----- 10)Mr. L. VENKATESWARA RAO Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF CIVIL ENGINEERING CMR COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS) KANDLAKOYA, MEDCHAL ROAD, HYDERABAD – 501 401. TELANGANA. INDIA. -----</p>
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(57) Abstract :

ABSTRACT PERFORMANCE EVALUATION OF INDIAN SOAPBERRY SAPINDUS MUKOROSI INNER NUTS IN THE PARTIAL SUBSTITUTE MATERIAL OF SAND Concrete is the most material being utilized in framework advancement all through the world. Sand is a superb material utilized for readiness of mortar and cement and which assumes significant part in blend plan. Regular or waterway sand is endured particles of rocks and are different grades or size contingent on the measure of wearing. Presently a days decent sand isnt promptly accessible, it is shipped from a significant distance. Those assets are additionally debilitating quickly. The nonavailability or deficiency of waterway sand will influence the development business; subsequently there is a need to track down the new elective material to supplant the stream sand, to such an extent that overabundance waterway disintegration and damage to climate is forestalled. Numerous scientists are discovering various materials to supplant sand. This review expected to explore the appropriateness of utilizing squashed inside nuts of Sapindus mukorossi (cleanser nut without top shell) in concrete. Sapindus mukorossi is a types of tree, squashed Sapindus nuts was squashed in the lab and added incomplete sand substitution. The test on concrete showed that the mechanical properties (compressive, flexural and split elastic qualities) of cement.

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