

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441031388 A

(19) INDIA

(22) Date of filing of Application :19/04/2024

(43) Publication Date : 07/06/2024

(54) Title of the invention : METHOD FOR DEVELOPING TSUNAMI-RESILIENT RUBBLE MOUND BREAKWATERS WITH GEOSYNTHETICS

<p>(51) International classification :E02B0003060000, E02B0003120000, E01D0021000000, E02B0003040000, E02D0015100000</p> <p>(86) International Application No :NA Filing Date :NA</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)National Institute of Technology Karnataka Address of Applicant :Srinivasnagar PO, Surathkal, Mangaluru - 575025, Karnataka, India Mangalore ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Babloo Chaudhary Address of Applicant :Department of Civil Engineering, National Institute of Technology Karnataka (NITK), Surathkal, P.O.Srinivasnagar,Mangaluru-575 025, Karnataka, India. Mangalore ----- -----</p> <p>2)Manu K Sajan Address of Applicant :Department of Civil Engineering, National Institute of Technology Karnataka (NITK), Surathkal, P.O.Srinivasnagar,Mangaluru-575 025, Karnataka, India. Mangalore ----- -----</p>
---	---

(57) Abstract :

Disclosed is a process 200 of developing a tsunami-resilient rubble mound breakwater which involves laying 202 polypropylene biaxial geogrids on either side slopes of the rubble mound breakwater, replacing 204 conventional armour rubbles with sand-filled geobags on both harbour side and seaside, inserting 206 precast units of a crown wall with a shear key placed on top of the rubble mound breakwater and inserting 208 steel sheet piles into the seabed on either end beneath the breakwater to be embedded into the dense sand. <>

No. of Pages : 30 No. of Claims : 10