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<p>(51) International classification :A01G 310000, A01G 310200, B01D 050000, C02F 011600, C02F 030800</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)SWAMI VIVEKANANDA UNIVERSITY Address of Applicant :Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Bara Kanthalia, -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. MD ERSHAD Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Bara Kanthalia, -----</p> <p>2)DR. RANJAN KUMAR Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Bara Kanthalia, -----</p> <p>3)MR. SAURABH ADHIKARI Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Bara Kanthalia, -----</p> <p>4)MR. ABHISHEK DHAR Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Bara Kanthalia, -----</p> <p>5)DR. SAIKAT MAJUMDAR Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Bara Kanthalia, -----</p> <p>6)MR. SOUMYA GHOSH Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Bara Kanthalia, -----</p> <p>7)DR. SAMRAT BISWAS Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Bara Kanthalia, -----</p>
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(57) Abstract :

Agricultural productivity in coastal locations is distressed by a number of vagaries of nature such as soil and water quality degradation owing to salt/saline water inundation or scarcity of irrigation water during the dry season, existence of brackish ground water table at shallow depth, drainage congestion during monsoon months, weather adversities, etc. The farmers are severely affected by such uncertainties leading to monoculture and poor nutritional and economic condition. In this pretext our technological intervention on a community basis can solve this conundrum by quality assessment and purification of sea water and its reuse in agriculture. The involvement of low cost alternatives like solar energy and cyanobacteria driven desalinization and filtration can ensure large scale remediation of the saline water. Further using it in soilless agriculture or farming through hydroponics using fallen logs can be the most suitable alternative to improve cropping intensity, agricultural productivity, nutritional security and economic prosperity of the farmers and local residents of resource scarce coastal saline belts.

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