



केन्द्रीय नमक व समुद्री रसायन अनुसंधान संस्थान

गिजुभाई बधेका मार्ग, भावनगर- ३६४ ००२

**CSIR-CENTRAL SALT & MARINE CHEMICALS RESEARCH
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CERTIFICATE

This is to certify that the thesis entitled “**Genetic transformation of groundnut (*Arachis hypogaea* L.) with *SbASR-1* gene cloned from *Salicornia brachiata*”** submitted by Mr. Vivekanand Tiwari for Ph.D. degree in Biotechnology of Maharaja Krishnakumarsinhji Bhavnagar University, Bhavnagar is original research work carried out under my supervision in Discipline of Marine Biotechnology and Ecology, CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar. I further certify that the work has not been submitted either partly or fully to any other University or Institution for the award of any degree.

Signature