The proposed National Project of Suez Canal Regional Development is deemed the most important sustainable development project not only for Egypt, but for all the world trade. Depending on its unique location the project is considered to utilize the economic potentials which in turn make this region as international economic hub that shall contribute to long term development. Urban, economic and industrial development, infrastructure development, including transportation, housing, and commercial activities are some of many objectives could be achieved by the project. To meet these objectives, Egyptian Metrological Authority (EMA) should enhance its measurement program by increasing the density of an existing network, especially all types of Automatic Weather Station (AWS) network in response to increasing demands for more comprehensive weather information that needed in each phase of the project and to meet the general requirements.