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I. Introduction(Heading 1)

Along with the operation of global satellite based navigation systems- GPS of USA, GLONASS of Russia, GALILEO of Europe, and BeiDou of China, India developed an indigenous regional satellite based Navigation System IRNSS (Indian Regional Navigation Satellite System) with an operational name of Navigation with Indian Constellation (NavIC). The system covers India and a region extending about 1500 km around India as the primary or central service region. The system is designed, developed, deployed and maintained by Indian Space Research Organization (ISRO) and is operational since 2017. This System is designed to provide position solution with accuracy better than 10 m during all weather conditions, anywhere within India and the extended service region around India [1]–[2]. NavIC provides Standard Positioning Service (SPS) and Restricted Service (RS) to the users, and both the services are provided using dual frequencies- one in the L5 band (1164–1189 MHz) with 24 MHz bandwidth and the unique other one in the S (2483.5-2500 MHz) band with 16.5 MHz bandwidth [3]–[5].

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