**LITERATURE SURVEY**

As discussed, considering the standard taxonomy of the flight delay and its problems, one will contemplate the scope of prediction to be one in every of these factors or combination of those factors. The models developed during this system may be applied to predict the incidence of flight delay at airports. Such prognosticative capabilities would facilitate traffic managers and airline dispatchers to organize mitigation methods for reducing traffic disruptions. This issue can be reduced by developing the flight delay prediction tool which can be developed using following methods.

Since two decades, rapid growth in air traffic is observed due to comfort, flexibility, and speed. Every year, huge amount around $22 billion loss is noticed due to delay of flights in U.S as per the reports of FAA (Federal Aviation Administration).According to Federal authorities if delay is more than 3 hours for domestic flights and more than 4 hours for International flights the airlines companies have to pay penalty. To avoid the paying of penalty to customer the airlines companies want to maintain a continues relationship among them. Air transportation provides services in the aviation sector and creates wider socioeconomic settlement through its potential to enable convinced types of actions in a local market. According to U.S taxi-out operations are accountable for 4,000 tons of hydrocarbons, 8,000 tons of nitrogen oxides and 45,000 tons of carbon monoxide emissions in the U.S in 2007. In addition, the economic impact of flight delays for domestic flights in the US is probable to be more than $19 Billion per year to the airlines and over $41 Billion per year to the national economy.