

ABSTRACT

This study examined the traffic trend on Gujranwal, Daska, Sialkot, Sambrial, Wazirabad roads in order to obtain a suitable prediction model for them. Data for this study has been collected from Bureau of Statistical, Economics Survey of Pakistan and Punjab Highway Department. On data of 23 years ARIMA and Linear, Non Linear functions have been applied. The study finding suggest that for TMT on Gujranwala route we select AR (5), MA(2), MA(8) model, TMT on Daska route we select ARIMA (1,1,6), TMT on Sialkot route we select ARIMA (1,1,2), TMT on Sambrial route we select ARIMA(3,1,9) model, TMT on Wazirabad route we select Gamma function For Trailers on Gujranwala route we select MA(8) model, Trailers on Daska route we select MA (1) MA (3) function, Trailers on Sialkot route we select MA(9) model, Trailers on Sambrial route we select ARIMA (7,1,6) model, Trailers on Wazirabad route we select ARIMA (9,1,6) model. And for Trucks on Gujranwala route we select ARIMA (5,1,10) model, Trucks on Daska route we select MA (5) model, Trucks on Sialkot route we select Gamma function, Trucks on Sambrial route we select Gamma model, Trucks on Wazirabad route we select MA (3) MA (6). For the forecasts and predictions we can use these models.