

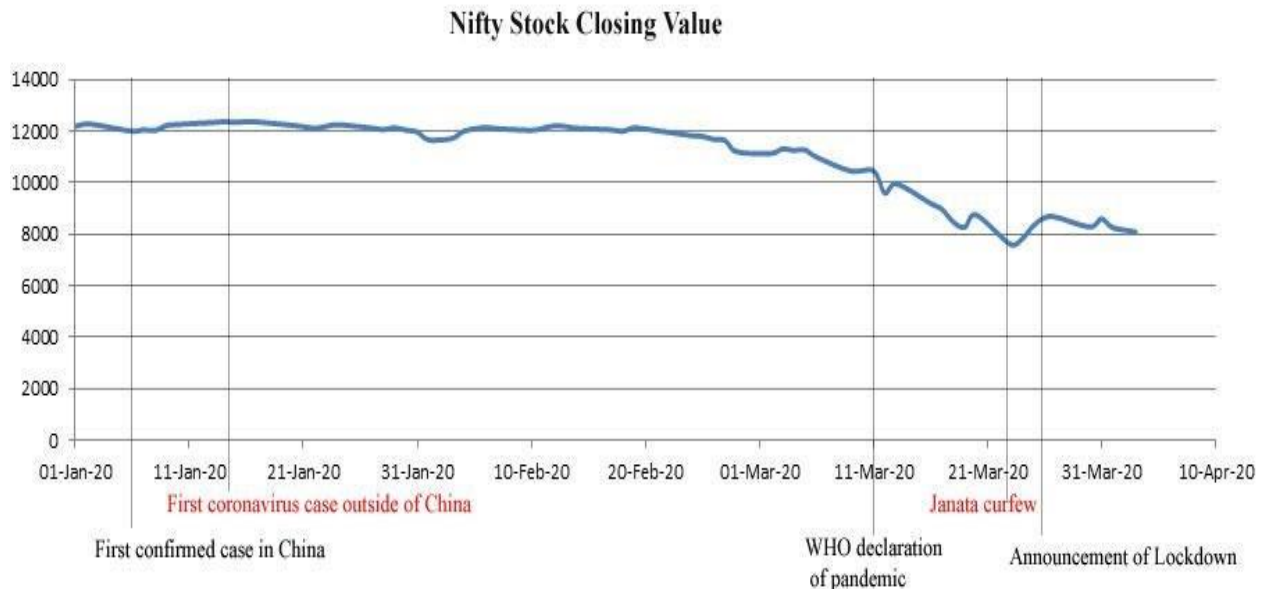
Lock Down Effect on Few Domain

The first case of the 2019–20 coronavirus pandemic in India was reported on 30th January 2020, originating from China. The outbreak has been declared as pandemic by world health organization (WHO). Here we are finding the effect of the pandemic on various economic indicators such as:

Nifty Stock price:

Nifty stock value has been collected from 01.01.2020 to 04.04.2020. It is observed from the below figure (Fig-1), that Nifty stock value does not falls after after first covid-19 case confirmed in China and outside China on 7th and 13th January, 2020. Stock price fall started from 11th March, when WHO declared the outbreak as a pandemic. After Janata Curfew on 22nd March, 2020 and announcement of Lockdown on 24th March, 2020 stock price fall poorly due to manufacturing companies are announcing shutdowns. Nifty slipped to a four year low value.

Fig-1 : Effect of the pandemic on Nifty Stock value



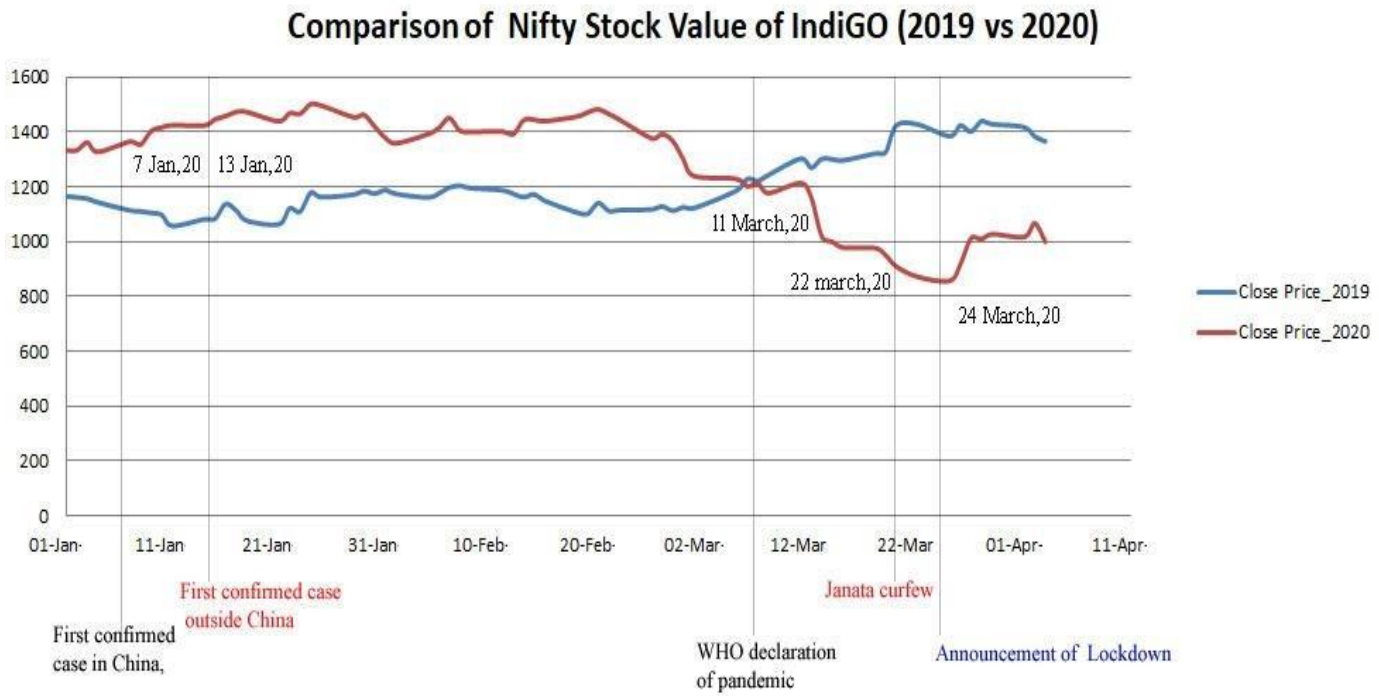
Comparison of Stock Price value of Different Industries (March-2019 vs March-2020)

Airlines Industries

From Fig-2, It has been observed that stock value of IndiGo Airlines falls after announcement of pandemic by WHO on 11th March,2020. After Janata curfew and Lockdown announcement by Govt of India on 22nd and 24th March,2020 price fall continues due to cancellation of International and domestic flights. Stock values were

better before 11th March, 2020 than 2019. But After 11th March price falls continuously.

Fig-2: Effect of COVID-19 attack on Stock value of IndiGo Airline

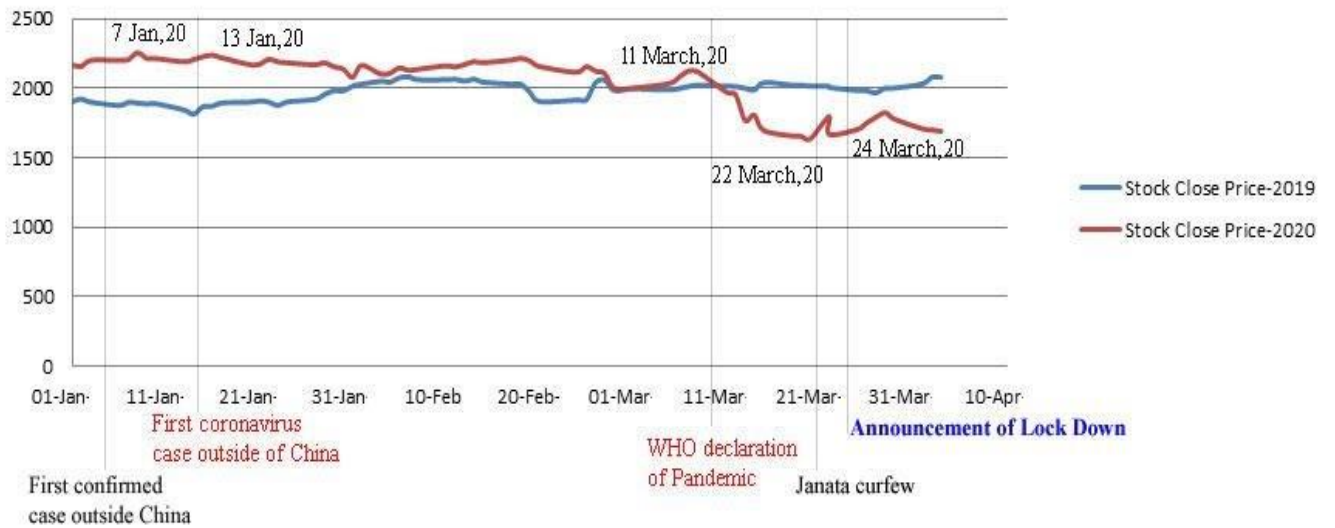


IT Industries

From Fig-3, It has been found that stock value of Tata Consultancy Services falls after announcement of pandemic by WHO on 11th March,2020 and after Janata curfew and Lockdown announcement by Govt of India on 22nd and 24th March,2020 price fall continue due to shutdown of offices and covid-19 attack in all world specially USA and European countries.

Fig-3: Effect of COVID-19 attack on Stock value of TATA Consultancy Services

Comparison of Nifty Stock Value of TCS (2019 vs 2020)

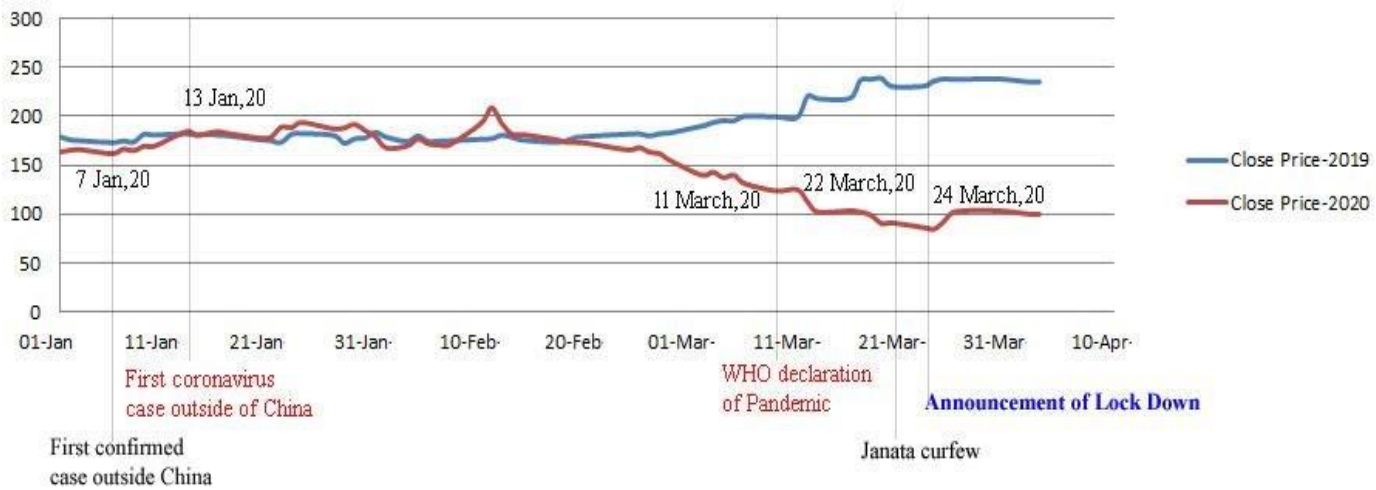


Hotel Industries

From Fig-4, It has been found that stock value of Taj Hotels & resort falls after announcement of pandemic by WHO on 11th March,2020. After Janata curfew and Lockdown announcement by Govt of India on 22nd and 24th March,2020 price fall continues due to cancellation of International, domestic flights and less numbers of foreign tourists as well as Indian tourists and also cancellation of hotel booking.

Fig-3: Effect of COVID-19 attack on Stock value of TAJ Hotels & Resort

Comparison of Nifty Stock Value of TAJ Hotels & Resort (2019 vs 2020)

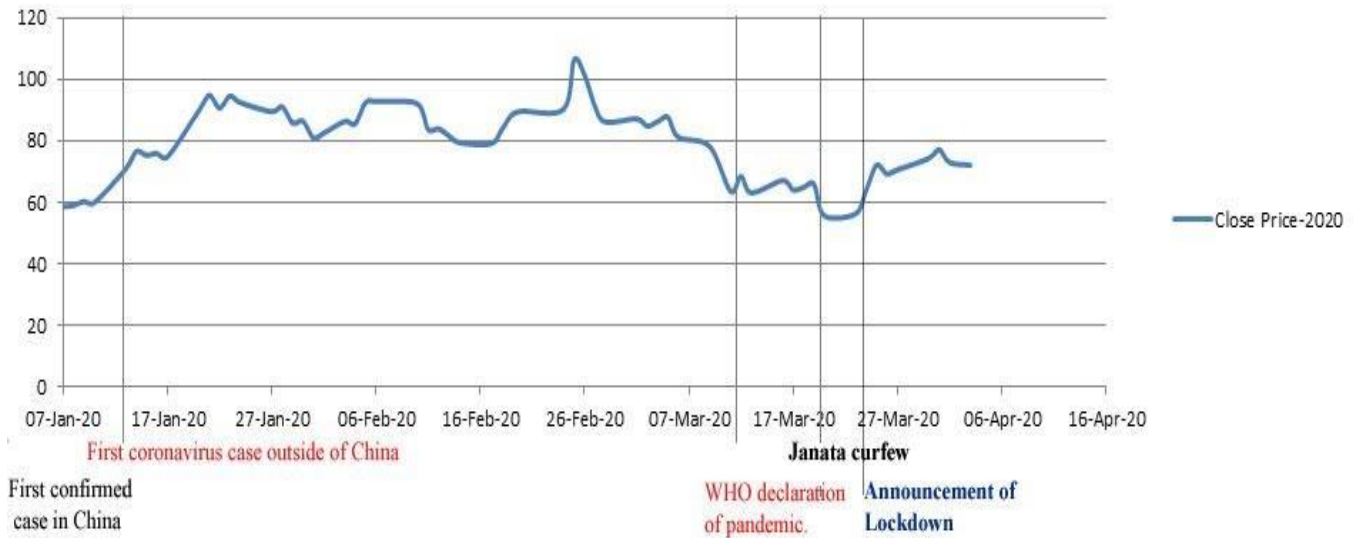


Retails

From Spencer's Stock price graph, It has been observed that Nifty stock value decreases after WHO declared the outbreak as a pandemic. After Janata Curfew on 22nd March, 2020 and announcement of Lockdown on 24th March, 2020 stock price fall poorly due to shut down of market. But after 27th march, 2020 Govt of India declared to open retail shop for public. So stock value rises slightly.

Fig-4: Effect of COVID-19 attack on Stock value of Spencer's Retail Shop

Nifty Stock Value of Spencer's Retail -2020



Effect on Tourism Revenue:

Data of Tourism revenue of India has been collected from 1st march, 2019 to 24th March, 2020. It has been observed from below figure (Fig-5) that tourism revenue decreases from the month of January, 2020 and after first covid-19 case confirmed in China and outside China on 7th and 13th January, 2020. After pandemic declaration by WHO on 11th March, 2020 tourism revenue value drop poorly because of less amount of foreign tourist. Janata Curfew on 22nd March, 2020 and announcement of Lockdown on 24th March, 2020 revenue value falls in severe rate due to cancellation of both International and Interstate flight, Railway Services etc..

Fig-5: Effect of COVID-19 attack on Tourism Revenue



Effect on Air Pollution

It has been observed recently that air pollution levels have started to drop dramatically as the second-most populated nation endures the second week of a 21-day lockdown amidst coronavirus fears. Here we are looking at air pollution indicators over the pandemic as proxies for industrial activity.

Average Air Quality Index (AQI)

Average Air Quality Index of different cities has been collected from 01.01.2020 to 04.04.2020. It is observed from the below figure (Fig-6) that air quality index (AQI) decreases after Janata Curfew on 22nd March for covid-19 attack in India. After announcement of Lockdown from 24th March, value of average air quality index drop drastically and reaches to a satisfactory level. Especially for Delhi, Greater Noida, Kolkata, Bengaluru AQI level changed from poor or severe level to good or satisfactory level. Similarly NO₂ level of some densely populated and industry based cities (Fig-7) also decreases after Janata Curfew and announcement of lockdown due to less numbers of vehicles, shut down of industries. Now all the major cities have satisfactory Pollution Level .

Fig-6 : Effect of Lockdown on AQI of different cities

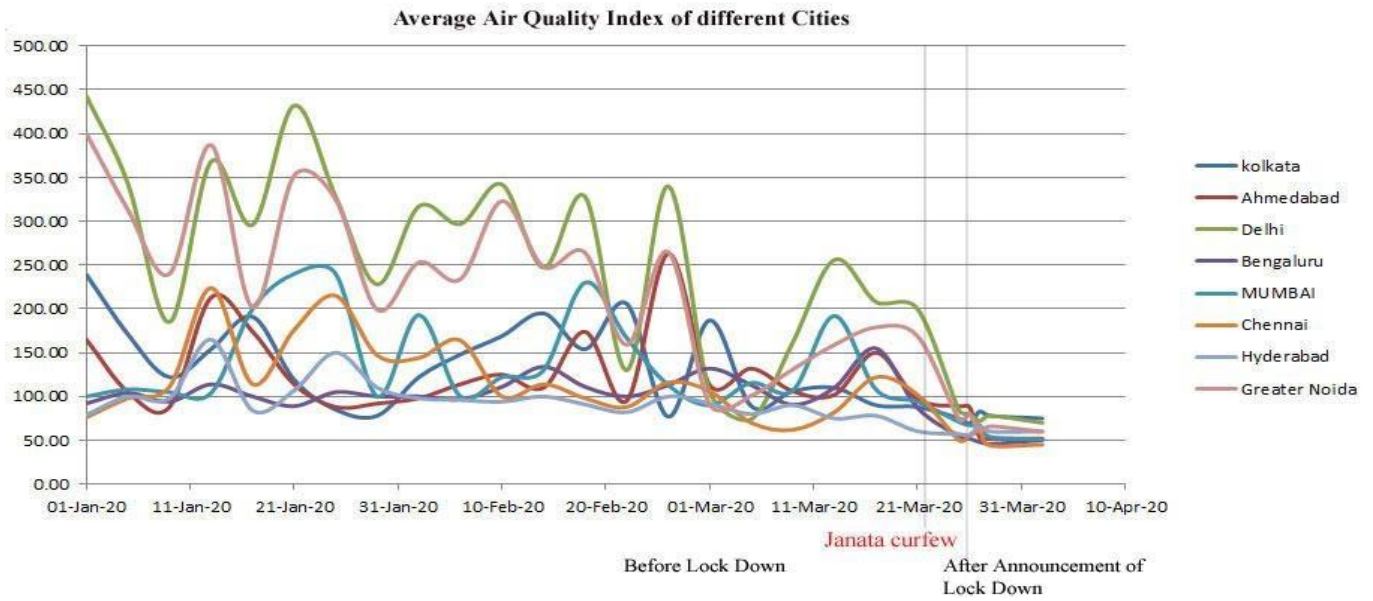


Fig-2

Fig-7: Effect of Lockdown on NO2 Level of different cities

