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Impact of COVID-19 on Mechanical Engineers

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ABSTRACT

COVID-19 has severely impacted manufacturing industry due worldwide lockdown. Majority of mechanical engineers work in manufacturing industry and major portion of the manufacturing industry is automobile industry. Due to lockdown, economy of the world is at a standstill and it has resulted in low sales of automobiles. This has resulted in pay cuts and job losses of the mechanical engineers. At the same time, due to less consumption, oil prices worldwide has also fallen drastically, this has resulted job loss of mechanical engineers working in the refineries. In this paper impact of covid-19 on mechanical engineers has been analysed.

Keyword: - Covid-19, mechanical engineers, pandemic, financial crisis, automobile industry.

1. INTRODUCTION

Mechanical engineering deals with designing, manufacturing and maintenance of machines and equipments like automobiles, electric motors, aircraft and other heavy vehicles. Mechanical engineers designs, manufactures and maintain everything from new batteries, athletic equipment to medical devices and from personal computers, air conditioners, automobile engines to electric power plants.

Coronavirus disease (COVID-19) is an infectious disease caused by a newly discovered coronavirus .Most people who fall sick with COVID-19 will experience mild to moderate symptoms and recover without special treatment. The virus that causes COVID-19 is mainly transmitted through droplets generated when an infected person coughs, sneezes, or exhales. These droplets are too heavy to hang in the air, and quickly fall on floors or surfaces. You can be infected by breathing in the virus if you are within close proximity of someone who has COVID-19, or by touching a contaminated surface and then your eyes, nose or mouth

2. IMPACT ON MANUFACTURING

Manufacturing is among the industries to be most negatively affected by the evolving humanitarian crisis caused by COVID-19. It is expected that the pandemic to heavily disrupt the demand behavior as well as the supply and capability of companies to deliver goods to the market. As we speak, the COVID-19 domino effect is in full progress. Just as China is seemingly recovering, the number of infected is quickly rising in Europe and the US, a trend which is expected to rapidly intensify in the weeks to come.

The Coronavirus Pandemic has been affecting the livelihoods of almost everyone that we know and it hasn't spared the Indian automotive industry either. The sales figures for the month of March 2020 have come in and the situation is worse than anyone expected. It gives a clear picture of the extent of the impact on the industry and which automaker has been facing the worst of it. On top of that, several automakers have stepped up to use their expertise in parts production to help the medical industry with automakers like Tesla and Mahindra coming out with their own versions of ventilators too. More than 15 million jobs could be lost in India's export sector due to half of all orders getting cancelled and units unable to repay loans due to the Covid-19 pandemic and the ensuing lockdown. There could be severe job losses across different sectors in India if the corona virus impact continues for few more months. It may take on an average at least four to six months for different businesses to recover from the impact. [3]

COVID-19 is a global issue and is going to shed jobs like a tree in late autumn.COVID-19 affect is such that it can lead to severe to very severe impact on the travel and tourism sector in India with thousands of jobs being axed. Also, the automotive segment which is already bleeding will also face the brunt of the job losses. Many of their plants are closed and hence will be forced to shut out temporary workers. Besides this the auto ancillary companies will be forced to shut shop resulting in thousands of job losses in the coming months. Recovery can happen in the next few months this year will be very difficult year for India and could also lead to many job losses from which it would be difficult for the workers to recover, as there would be very limited hiring in the times to come.

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Manufacturing and other core sectors of the economy such as power, infrastructure, mining, and agriculture will be cautious in hiring. They are all impacted by the disruption in supply chains.

Manufacturing, engineering, construction will shrink by about 70,000 jobs including the people working in unorganized sectors from April-June. Due to the lockdown in a huge number of districts, lakhs of people are losing their daily wages. The recovery is expected in July-Dec 2020.

3. FUTURE POST COVID-19

Markets will eventually settle into a new, post-pandemic normal, which will only partially resemble the world we are used to now. In fact, there will be closer reliance on local markets and probably worldwide trade disruption. Manufacturing will possibly be based on smaller market pockets and shorter value chains. In this environment, companies will have to reconsider their supply chain footprint and transform their operations to make them fit for purpose and ready for the next disruption. Many new initiatives will be introduced in this new phase but it's impossible to figure out how exactly companies will drive their way to success, at least for now.

4. CONCLUSIONS

There will be huge job loss and financial crisis of mechanical engineers. But the effect will be temporary. Everything will come to normalcy once the vaccine is generated.

6. REFERENCES

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BIOGRAPHIES



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