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Abstract: To determine the valuation of companies' shares, the individual always consider the earning per share (EPS). There are lot of literature review provides the information of how much the individual investors considering the importance of earnings per shares before their investment to one industries. Earnings per shares will help the investors to analyse on the growth of their investment from the company. The total number of outstanding shares will divide the net income of the company to find the value of the EPS. This tool used by all the security market investors before they are purchasing the shares. There are lot of research gone through by various researcher by using the EPS to determine the share price of various industries across the globe. In India, after the implementation of GST and demonetisation there are plenty of assumption and expectation spread across regarding the GDP of the country, Profit of the business and also the performance of share market. People are not aware what was the earnings of each individual received when they did investment during this period. This paper analyse how much the EPS value has been received by the investors of security market after the implementation of GST and demonetisation.

Keywords: GST, Demonetisation, EPS, relationship analysis.

I. INTRODUCTION

Goods and Service Tax launched in July 2017. It is an indirect tax collected by central and state government. GST will be collected on every transaction of business and services and also the exports and imports. It will replace all other indirect tax such as VAT, service tax and excise duty etc. It is a value addition tax which is the taxable amount of transaction. These kind of policy changes in the government will affect the global market and business sectors. However Indian government took the risk of removing all other taxes and created as single tax. That is GST. fter the implementation of demonetization, the government is shared the reason for under taken this act is to control the illegal activity and terrorism. And the government called this as action of shadow economy. Even though it was taken for the good reason, the Indian share market has been faced the big challenges at the time of implementation. The BSE value is reduced around 1689 points and the NIFTY has been reduced by 541 points. So it was needed to understand the share price changes before and after the implementation demonetisation.

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Earnings per share represents the earnings from the company's share. Net tax, dividends are allocated to all the shares. The table has been calculated by dividing the net income using out standing shares during the period. Since the outstanding shares will get vary from time to time, the quarterly and annually shares has been used.

This study will help to analyse whether any strong relationship is available between the tax reconstruction that is GST and the demonetisation of currency when providing the EPS.

II. REVIEW OF LITERATURE

Angelin Kiruba, Dr. S. Vasantha(2018) ICIRST-18, the selected industries were used for the research to find out the impact of demonetisation in share market of Indian industries. It was found that there is strong impact in the share market during the demonetisation period for the short period of time.

Sunil Tanej and Pratibha Bhardwaj (2018), has done the research on the impact of GST in the IT sector. The objective of the study were to know how the GST is works and to know the features of the GST. And also the impact of GST on IT sector. This study also extended to find the tax rates after the impact of GST. From the various review and the rate of GST, the author is concluded the research as IT sector has the good benefits due to the GST. And it creating the profit in the IT sector.

Rajanish Kumar (2017) has done the research on effect of demonetisation on stocks in terms of EPS. For his research he has taken the data from January to March. The main objective of the research is to find whether any long term impact in EPS due to the demonetisation act. However from the result it was found, there is no long term impact in the share prices due to the demonetisation.

Manas Chakravarty (2017) ,based on his research the demonetisation effect is the temporary. Since the interest percentage is low, it has been created the adverse effect. And also he found that it is not only the demonetisation affected the Indian share prices. During that time, there were US president election occurred. So it created the huge impact on the growing country like India.

Livemint (2017) has done the research on the impact of the GST created the effect in the home currency on exports. From that it found that the exports values are slow in the June quarter and the Indian rupee is strengthened 5.16% against the dollar since January and may. And they found implementation of GST affected the lot of sectors during the period. According to UBS(2017), earnings could disappoint further.

It believes risk-reward is unfavourable with markets at peak valuations and continued low earnings growth. Though Indian markets have outperformed peers this year, elevated valuations, weak economy and elusive earnings growth have started to worry foreign investors which led to a sell-off by foreign institutional investors (FIIs) in August and September.

Sukanta Sarkar (2010) conducted a study on the parallel economy in India. In this study, she examined about the causes and impact of the demonetisation act in India. As per her research she found that government has been given the importance on the implementation of demonetisation. So she has concluded her research with the following suggestion. That is government might have formed a committee before introducing the demonetisation. So that they can control the black money properly.

Tax Research Team (2016), was done the research on the demonetisation effect in the Indian economy. In that they analysed all the impact of the demonetisation during those period. As per their research it was found that, demonization is affected the credit level , spending level and the government finances and also it was affected the all the level of daily activity.

Dr. Vandana Gupta, Utsav Asher, Hunny Jain(2017), has done the research on the due to demonetisation how the performance of the BSE. For analysis they have used the 50 companies data which are listed in the BSE. Paired

comparison T-test has been used to find the demonetisation changes in the stock price before and after in the share market. Form the result it was clearly understood that 54 percentage the companies are affected during the demonetisation period.

III. RESULTS AND FINDINGS

The price-to-earnings (PE) and price-to-book value (PBV) ratios are favourite tools of value investors.

The short code used here is Profit before tax (P/B), Earnings per share (EPS) and Return on Equity (RoE).

Hypothesis

This is used to validate the impact of share values before and after the demonetisation and GST.

Before and after the one month of share value has been used to analyse the changes demonetisation. For GST April 2017 to Dec 2017 data was used. For EPS Apr 2017 to Mar 2018 data has been used.

H0: $(\mu 1 = \mu 2 = \mu 3)$ Mean return are equal there is no changes in the stock values.

H1: Mean returns are not equal. There is a change in the share values after the demonetisation and GST.

EPS:

EPS = (net income – dividends on preferred stock) / average outstanding common shares

EBT:

EBT = Net income + Corporate Income Tax

ROE

ROE = Net income ÷ shareholder's equity

1. Personal Care industry:

	Degree of freedom	Sum of Squares	Mean Square	F-Test	Significance of F
Between Group Design	1	156.44	156.44	11.93	0.003
Within Subject Design	14	153.56	13.11		
Total	15	340			

Table-1 (Demonetisation)

Inference

Given Sig.< 0.05, (Value = 0.0038), it means the data is accepting the H1 hypothesis. The three segment analysis shows the result as insignificant. From the above table, we

could see the results are significantly difference. It means that personal care industries shares are affected during the demonetisation period.





Personal Care								
Companies	F	Significance F						
Dabur	0.12	0.73						
HUL	0.63	0.45						
Colgate	0.04	0.84						
Godrej consumer	0.09	0.77						
Marico	0	0.95						

Table- 2 (GST)

Given Significant 0.05, all industries values are greater than the 0.05 or equal to 0.05. It means that, Colgate, Marico, Dabur, HUL and Godrej Consumer companies are after the

GST the share return has not been changed. It means that GST is not creating any difference in the share values of personal care industries.

	Personal Care									
Companies	6 Months Average Volume	P/B	Dividend Yield (%)	Book Value (INR)	EPS (INR)					
Hindustan Unilever	1171306	39.28	0.01	35.89	23.41					
Godrej Consumer	569495	12.62	0.01	85.16	20.65					
Colgate	326271	17	0.91	64.61	23.06					
Dabur India	1550304	10.71	0.01	31.84	7.33					
Marico	1078436	13.77	1.11	22.97	6.22					

Table- 3

Personal Care							
Companies	Market Cap (Cr)	Revenue (Cr)	Net Profit (Cr)	Net Margin %	RoE %	Price to Book	Price to Earnings
Dabur	60067.85	60067.85	7630.11	1293.87	28.97	10.71	46.52
Colgate	29876.26	29876.26	4413.17	627.18	14.09	17	47.64
Marico	40836.5	6175.15	816.34	13.04	37.51	13.77	50.88
Godrej Consumer	73205.45	9897.59	1406.14	14.06	27.37	12.62	52.03
Hindustan Unilever	305133.62	35007	5068	14.25	67.8	39.28	60.21

Table-4

According to father of Investing Benjamin Graham, the good investors get their benefit when they do their investment in the long term projects. As everyone aware the earnings per share will be in the growing in some point of time, when the investor wait for it. As per the above table 1 to 4 of personal care industry, during the demonetisation period there is a significant level of changes in the shares. But when we

compare it with the GST period, it is not created any difference to the shares. And also we could see all companies shares are earned the dividend even though the market has been faced the big challenges like GST and demonetisation, it is not created any negative impact of the shares of personal care.

2. Transport and Logistics:

	Degree of freedom	Sum of Squares	Mean Square	F-Test	Significance of F
Between Group Design	1	31.21	31.21	1.41	0.25
Within Subject Design	14	308.79	22.06		
Total	15	340			

Table- 5(Demonetisation)

Inference:

Given Sig.< 0.05, (Value = 0.025), shows the result of three different period mean return are shows the different values.

So we have to accept the H1 hypothesis. The result are significantly difference. It means that transport and logistics industries also affected due to demonetisation.

Transport and Logistics							
Companies	F		Significance F				
Interglobe		0.31	0.59				
Container Corp		5.62	0.04				
Jet airways		0.37	0.56				
SpiceJet		0.05	0.81				
Aegis logistics		0.43	0.52				

Table- 6(GST)



From the Table 6, except Container Corp all other industries values are greater than the 0.05. It means that GST is not

created the difference of share market in the transport and logistics industry.

Transport and Logistics Industry									
Companies	6 Months Average Volume	P/B	Dividend Yield (%)	Book Value (INR)	EPS (INR)				
Interglobe	741439	8.1	2.33	180.35	66.73				
Container Corpn	323795	3.38	1.05	386.38	44.77				
Jet airways	4129797	-2.85	0	-218.59	26.87				
Spicejet	1845537	-84.41	0	-1.6	9.26				
Aegis Logistics	402757	9.62	0.37	29.25	5.26				

Table- 7

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Transport and Logistics Industry								
Companies	Market Cap (Cr)	Revenue (Cr)	Net Profit (Cr)	Net Margin %	RoE %	Price to Book	Price to Earnings	
Interglobe	56138.77	22069.99	2565.04	11.13	44.55	8.1	21.89	
Jet airways	7081.66	22810.81	305.18	1.28	0	-2.85	23.2	
Spicejet	8095.57	7395.99	555.28	7.39	0	-84.41	14.58	
Container Corpn	31782.01	6084.42	1091.11	17.03	9.68	3.38	29.13	
Aegis Logistics	9400.43	4806.82	191.4	3.98	24.22	9.62	53.48	

Table- 8

As per the above table 5 to 8 of transport and logistics industry, during the demonetisation period there is a significant level of changes in the shares. But when we compare it with the GST period, it is not created any difference to the shares. And also we could see all companies

shares are earned the dividend. But here we are able to see the negative impact in the profit and in the book value of Jet airways and in the Spicejet which clearly shows the relationship of new policy given by the government is always has the relationship in the share market.

3.Hotel Industry

	Degree of freedom	Sum of Squares	Mean Square	F-Test	Significance of F
Between Group Design	1	1.45	1.45	0.06	0.81
Within Subject Design	14	338.55	24.18		
Total	15	340			

Table – 9 (Demonetisation)

Inference:

Given Sig.> 0.05, (Value = 0.80), the mean return are shows the equal value in the three different windows. It means that we have to accept the H0 null hypothesis. On analysing the

multi comparison table , the mean value is not significantly different. It means that share price of hotel sector is changed before, after and during the demonetisation in the hotel sector.

Hotel Industry

Companies F	·	Significance F
Hotel-EIH	1.08	0.33
India tourism D	0.51	0.49
Indian Hotels	0	0.97
Leela	2.7	0.15
Mahindra Holiday	0.28	0.61

Table-10(GST)

From the above table-10, the given significant has not been met with any of the company. It will be the another example of the GST is not created any difference in the Hotel

industries shares. When comparing with other industries, hotel industry shares were not changes even in the demonetisation period also.

Hotel Industry										
Companies	6 Months Average Volume	P/B	Dividend Yield (%)	Book Value (INR)	EPS (INR)					
EIH Associated Hotels	27614	5.35	0.89	94.18	13.31					
India Tourism Devp	65521	10.72	0.29	43.29	3.21					
Indian Hotels	2142991	4	0.24	34.5	0.55					
Hotel Leelaventure	806948	89.93	0	0.21	0.1					
Mahindra Holidays	118281	5.58	1.11	54.02	9.56					

Table-11





Hotel Industry								
Companies	Market Cap (Cr)	Revenue (Cr)	Net Profit (Cr)	Net Margin %	RoE %	Price to Book	Price to Earnings	
EIH Associated Hotels	1533.92	266.46	40.56	14.74	16.34	5.35	37.81	
Mahindra Holidays & Resorts	4019.33	1091.58	127.62	11.43	26.37	5.58	31.49	
India Tourism Devp	3980.99	377.71	21.96	6.82	2.94	10.72	144.44	
Indian Hotels	16393.93	4005.62	38.25	0.94	-3.26	4	251.17	
Hotel Leelaventure	1210.66	710.45	5.99	0.81	0	89.93	202.11	

Table-12

From the above table 11 to 12 of Hotel industry, during the demonetisation period there is no significant level of changes in the shares. When we compare it with the GST period, it is not created any difference to the shares. And we could see all companies shares are earned the dividend. But here we are able to see the negative impact in the return on earnings in the

Indian Hotels which clearly shows the relationship of new policy given by the government is always has the relationship in the share market. However, it is not affected the profit earnings of the company. It gave the high earnings to the shares when comparing the peer competitors of this field.

4.Food Processing:

	Degree of freedom	Sum of Squares	Mean Square	F-Test	Significance of F
Between Group Design	1	223.71	223.71	26.93	0.0001
Within Subject Design	14	116.29	8.31		
Total	15	340			

Table - 13 (Demonetisation)

Inference:

Given Sig.< 0.05, (Value = 0.00013), the result clearly shows to accept the H1 hypothesis. Because mean return of the three windows are not equal. And also the multi comparison table

shows the stock returns are changed in all the three period of time. So food processing is affected due to the demonetisation.

Food Processing						
Companies	F		Significance F			
Britannia		0	0.92			
GlaxoSmith Con		0.52	0.49			
Hatsun Agro		2.53	0.16			
Kwality		2.47	0.16			
Nestle		0.08	0.77			

Table – 14 (GST)

From the above table we are able to see all the companies share values are greater than the 0.05. There is no significant difference happened in the food processing sector due to the

GST implementation. But we are able to see the changes in the food processing when the time of demonetisation.

Food Processing								
Companies	6 Months Average Volume	P/B	Dividend Yield (%)	Book Value (INR)	EPS (INR)			
Britannia	173901	19.91	0.42	261.49	79.26			
Glaxosmithkline Consumer	21624	7.72	1.17	775.91	157.93			
Hatsun Agro	81237	31.01	0.54	23.87	8.65			
Kwality	3366273	1.36	0.16	44.85	4.4			
Nestle India	61406	24.5	0.99	354.77	127.07			

Table – 15

Tuble 10								
Food Processing								
Companies	Market Cap (Cr)	Revenue (Cr)	Net Profit (Cr)	Net Margin %	RoE %	Price to Book	Price to Earnings	
Britannia	62494.39	9768.7	951.11	9.58	37	19.91	65.68	
Glaxosmithkline Consumer	25191.06	4404.63	664.18	14.28	22.18	7.72	37.93	
Nestle India	83807.43	10192.18	1225.19	11.82	31.78	24.5	68.4	
Hatsun Agro	11264.26	4466.16	131.68	2.94	46.51	31.01	85.54	
Kwality	1451.61	6550.29	104.68	1.6	20.05	1.36	13.87	

Table – 16



From the above table 12 to 16 of food processing industry, during the demonetisation period there is a difference in the shares. When we compare it with the GST period, it is not created any difference to the shares. And we could see all companies shares are earned the dividend which explains the

healthy level of trading happened in the food processing sector. Since it is forming under the Maslow's basic needs sector, it was not created any impact to the shareholders who invested in the food processing sector.

5. Domestic Appliance:

	Degree of freedom	Sum of Squares	Mean Square	F-Test	Significance of F
Between Group Design	1	250.46	250.46	39.16	0.00002
Within Subject Design	14	89.54	6.39		
Total	15	340			

Table – 17

Inference:

Given Sig.< 0.05, (Value = 0.00013), which shows the result of accepting the H1 hypothesis. All the three windows are not equal. Based on the multi comparison table, it is also shows

the significantly different in value, we can conclude the stock returns are changed in the demonetisation period in the domestic appliance sector.

Domestic Appliance					
Companies	F		Significance F		
Bajaj Electric		0.55	0.48		
Butterfly		1.92	0.21		
Hawkins Cooker		1.82	0.22		
TTK Prestige		0.19	0.67		
Viaan Ind		0.96	0.36		

Table – 18

From the above table 18, clearly a explains that the GST implementation is not created any difference in the above mentioned companies. Across the country, there is an assumption of GST will increase the product selling prices.

But we could see the price value of the shares are not decreased as well not been into the booming value due to the remarkable tax reconstruction done by the Indian government.

Domestic Appliance									
Companies	6 Months Average Volume	P/B	Dividend Yield (%)	Book Value (INR)	EPS (INR)				
Bajaj Electricals	635644	6.86	0.45	90.02	11.24				
Butterfly	110741	5.06	0	102.21	-9.24				
Hawkins Cookers	1510	15.16	2.5	184.67	91.25				
TTK Prestige	9015	7.71	0.41	843.87	243.62				
Viaan Industries	335559	7.84	0	4.47	2.35				

Table-19

Domestic Appliance							
Companies	Market Cap (Cr)	Revenue (Cr)	Net Profit (Cr)	Net Margin %	RoE %	Price to Book	Price to Earnings
Bajaj Electricals	6301.84	4388.18	114.73	2.59	13.51	6.86	54.93
TTK Prestige	7520.04	1825.16	281.41	15.34	19.16	7.71	26.72
Butterfly	924.1	531.25	-16.52	-3.09	-26.83	5.06	Nil
Hawkins Cookers	1480.22	565.39	48.25	8.37	54.38	15.16	30.68
Viaan Industries	378.41	249.97	25.46	10.06	58.6	7.84	14.86

Table-20

From the above table 17 to 20 of Domestic Appliance industry, during the demonetisation period there is a significant level of changes in the shares. When we compare it with the GST period, it is not created any difference to the shares. And we could see except Butterfly company, all companies provided the dividend. But here we are able to see the negative impact in the net profit of the Butterfly company which resulted to the nil performance of the share's earnings. Even though the company earned the revenue, it is resulted with the net loss during this validation.

IV. DISCUSSION

As per the research done by Economic Times, GST has created more than hundred plus industries confirmed their profit gain during this period. At the time of demonetisation, there are plenty of research done by the researcher on the analysing on the business impact. More than two months, the whole business of retail and manufacturing faced the fluctuations.





Based on the research of Business Standard, Banking was the biggest successful sector after the implementation of demonetisation. When comparing with the GST and Demonetisation, both are in the opposite site. Based on this analyse we able to see demonetisation has created the more effect than the GST. We were trying to find out what will be impact of Indian industries after government brought into the such big changes of taxation and the challenges of demonetisation.

As confirmed by the Benjamin Graham, EPS will take some time after the time of investigation. Considering this fact we have used the data from 2017-2018, to find out whether any relationship between EPS, GST and demonetisation of the share market.

Based on the analysis, we able to see Butterfly from Domestic Appliance sector has been affected more during this period. It was not able to give any EPS to their shareholders. Even though it was continuously registered the EPS in the past 10 years, it was failed to provide EPS in the last financial year 2017-2018. Likewise, Jetways and Spicejet from the Transport and Logistics industries rate of earnings were registered as zero in the last financial year. However it was not disappointed the shareholders of their company. It gave the EPS to the shareholders. When we consider the Hotel industry, it was given the significant changes in the share value during the time of demonetisation. But when consider about the EPS, Indian hotel and the hotel Leela was announced the rate of earnings is not more than the zero. Food processing and the personal care industries are in the safer zone. It was not gone with any of the negative impression in the last year, even though all other segment faced the big challenges.

V. CONCLUSION

The study used the Data from April 2017 to Dec 2017 has been used to validate the changes of share values during the GST announcement. 8th Nov 2016 before and after a week of data used to analyse the difference of Demonetisation. Likewise data from 2014, is used for find out the EPS value growth in the past three years. And also we analysed the past ten years details of financial statement of the companies for the industries which is given the negative results in the EPS. All the shareholder when they buy their shares, they have only one goal that is to gain some profit from their investment. The gain of the investment is validated with the EPS. It is the basic analysis everyone do before they purchase their shares. This study is helps understand whether any relationship available between government policy and new announcement like GST and demonetisation. Based on our research we able to find out, the strong relationship between three of them. Even though the share fluctuations is not more like the way everyone assumed, it created the greater impact on the earnings of the shares. The profit earnings percentage are slightly down at the end of the financial year. Since there is no market changes of War announcement, recession, loss on GDP and any other new changes announced by RBI, we believe the loss on profit registered in the Domestic Appliance, Transport and logistics and Hotel industries. At least one company from these industry has been affected due to GST and demonetisation. The basic needs of Health and Food processing sector was in the safer zone due to the mandatory need of living. From this we can conclude that there is a strong relationship available between GST, demonetisation and EPS of the various companies shares.

REFERENCES

- Angelin Kiruba and S. Vasantha(2018) Impact of Demonetization on Stocks Market in Indian Industries International Journal of Pure and Applied Mathematics Volume 118 No. 5 2018, 99-115 ISSN: 1311-8080
- Anushya, & Karam, P. N. (2014). Indian Indirect Tax Systems' Reforms and Goods and Services Tax. Advancement In Management, 9-14.
- Aharony, J., & Swary, I. (1980). Quarterly dividend and earnings announcements and stockholders'returns: An empirical analysis. Journal of Finance, 35(1), 1–12.
- 4. Bansal, A. (2010). The Indian GST is moving towards the best real-world model of the tax. International Journal of Management Prudence, 1(2), 65-70.
- Ball, R., & Shivakumar, L. (2008). How much new information is there in earnings? Journal of Accounting Research, 46, 975–1016.
- Booth, G., Kallunki, J., Sahlstro, P., & Tyynela, J. (2011). Foreign vs domestic investors and the postannouncement drift. International Journal of Managerial Finance, 7, 220–237.
- Brav, A. (2000). Inference in long horizon event studies: A Bayesian approach with application to initial public offerings. The Journal of Finance, 55, 1979–2016.
- 8. Belle, M. I., & Freudenber, B. (2015). Calm waters: GST and cash flow stability for small businesses in Australia. eJournal of Tax Research, 13(2), 492-532.
- 9. Mehra P (2015) Modi govt.'s model for GST may not result in significant growth push. The Hindu.
- M. Sehrawat, U. Dhanda (2015), "GST in India: A key tax reform", "International journal of research granthaalayah", vol.3, issue 12, December 2015.
- N. Kumar (2014): "Goods and service tax in India-A way forward", "Global Journals of multidisciplinary studies", vol.3, issue 6, may 2014.
- R, karthik., Miruthula. A, and Nitheeswari. N. "Web Based Online Machine Controlling And Monitoring Using Plc Via Modbus Communication." International Journal of Communication and Computer Technologies 7.2 (2019), 22-26. doi:10.31838/ijccts/07.02.06

