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IMPACT OF INFLATION ON SELECT SECTORS OF NATIONAL STOCK EXCHANGE IN INDIA

BY

Kaleeshwari.S^{1*} Dr.M. Jegadeeshwaran² ¹Ph.D. Research Scholar, Department of Commerce, Bharathiar University, Coimbatore. ²Assistant Professor, Department of Commerce, Bharathiar University, Coimbatore.



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Corresponding author:

Kaleeshwari.S

Abstract

One of the most important objectives of any country is to achieve high economic growth with low inflation. The relationship between inflation and economic growth has been a controversial issue among macroeconomists, policymakers, and monetary authorities in the last few decades. Inflation and economic growth have one of the most mysterious relationships in economic theory. The appropriate level of inflation required for economic growth is hard to define. India is facing a fast rise in the general price level for the last couple of years. So, inflation is one such thing which is a major impact on the entire economy in some or another way. So, this study is carried out to know the relationship and effect of Inflation on the select sectors of the national stock exchange in India for the period 2012-2021 using statistical tools such as covariance analysis, and pair wise grangers causality and regression analysis has been used to derive the analysis.

Keywords: Inflation, Select sectors, National stock Exchange, Impact.

INTRODUCTION

The economic stability of a country depends upon the performance of the macroeconomic variables. In simple terminology, inflation is the persistent rise in the general price level which decreases the purchasing power of the people. The role of inflation and deflation on the economic growth, productivity, and output has been one of the widely discussed issues in the macroeconomic context.

To accelerate economic growth with low level of inflation is the main objective of most of the countries. From the macroeconomic policy point of view, inflation and economic growth are two important variables. However, there is no definite relationship between inflation and economic growth as evident from existing theoretical and empirical findings. This relationship has been one of the most controversial among policymakers, economists, and monetary authorities over the last few decades. The inflationary process has remained a controversial topic. It is generally arguable whether the inflationary pace is good orbed for the economies.

It has been observed that high inflation reduces savings and diverts investment into speculative channels. This is explained by the well-known Phillips curve advocating the possible trade-off between inflation and unemployment (Phillips, 1958). This curve establishes that there is no trade-off between inflation and unemployment in the long run but there are a possible trade-off between inflation and unemployment in the short run.

All most all emerging countries are taking steps to control inflation asrising inflation can be matter of concern for the country's economic. India is considered to be the large market that doesn't have a monetary policy framework. This is one of the main reasons why India mostly faces rise in inflation after the financial crises. Stock market plays an important role in determining the growth or fall of an economy of a country. Government, industry, and even central banks of a country keep watch on the movement of stock market prices because it largely affects the economy of a country.

Review of literature

Hasanov (2010) investigated the relationship between the real GDP growth rate, Consumer Price Index Inflation, and the growth rate of real Gross Fixed Capital Formation from 2001-2009 in Azerbaijan and found a non-linear relationship between inflation and economic growth. It is similar to the findings of Eggoh & Khan (2014).

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Umaru and Zubairu (2012) run the causality test and identified that GDP caused inflation and not inflation causing GDP in the Nigerian economy. The studies also conclude that there is a significant positive impact of inflation on economic growth and output. Similar results were found by Mallik and Chowdhury (2001) while studying Bangladesh, Pakistan, India, and Sri Lanka. They revealed that although moderate inflation promotes economic growth, faster economic growth absorbs inflation by overheating the economy.

Hussain & Zafar (2018) examined the association between money supply, inflation, government expenditure, and Pakistan's economic growth from 1972 to 2015. Using the Granger Causality tests, the researcher reveals that causality runs from Inflation to Economic Growth.

Barro (2013) investigated inflation and economic growth for 100 countries used the data from 1960 to 1990. He identified that causation runs negatively from high persistent inflation to lower real GDP Growth.

Vinayagathasan (2013) discussed the impact of inflation on economic growth for 32 Asian economies from 1980 to 2009. The study concluded that maintaining 5.43% inflation does not hurt the economy, but above that rate, there is an inverse relationship between inflation rate and economic growth.

Ahamed (2021) studied the relationship between macroeconomic variables such as inflation, domestic credit, and banking sector liquidity for the period of 2005-2018. The study concludes that inflation has an inverse relation with liquidity, ultimately affecting the investment and output

Statement of the problem

Rise in price level which causes the major part for the inflation and a reduced purchasing power, so inflation is one such factor which will affect the share price of the stock market. Change in the rate of inflation strongly affects the stock prices. So it is considered that when inflation price rises the stock market also performs better. And the growth stock has minimal cash flows. Rising inflation can be costly for consumers, stock, and economy. Normally the effect of inflation in the economy is the general slowdown of the economy, when this happens it will rise the unemployment level and purchases becomes more expensive. As of now, the consumer price index is estimated to touch 6.3 average this fiscal from 5.5% in the last. So based on this reserve bank of India is also going to rise its policy repo rate by 75-100 basis points. So hence the rise in inflation in 2022 will definitely have an impact on the stock market. So, this study analysis the relationship and its effect on the stock market performance. Keeping this in view the study has been carried out and uses the statistical tools such as unit root test, causality test, and co-integration test has been included.

The above problem is discussed using the questions:

- How is the trend and growth pattern of inflation in India?
- Whether inflation has any relationship with stock market performance?
- Is there any effect of inflation on the stock market performance?

The objective of the study

- To study the trend and growth of inflation in India
- To analyze the causation between inflation and price of select indices of the national stock exchange.
- To examine the integration between inflation and price of select indices of national stock exchange.
- To elucidate the effect of inflation on the price of select indices of the National stock exchange.

The hypothesis of the study

- There is no significant causation between Inflation and Select sectors of the National Stock Exchange.
- There is no significant relationship between Inflation and Select sectors of the National Stock Exchange.
- There is no significant impact Inflation and Select sectors of National Stock Exchange.

Research Methodology

The paper is analytical in Nature.

Source of the data

The data are a secondary source of information. And the data are collected from the official websites of the Reserve Bank of India, the National stock exchange, and other journals, magazines, and news articles for information.

Period of study

The study period covers from 2010 to 2020

Tools used for the study

The study uses statistical tools for analysis such as pairwise Granger's causality test, Covariance Analysis, and Regression Analysis.

Analysis and Interpretation

	Depicting the Inflation and select sectors of the National Stock Exchange in India for the period 2012-2021							
				Nifty	Nifty	Nifty	Nifty	Nifty
Year	Inflation	Nifty AUTO	Nifty BANK	ENERGY	FMCG	IT	PHARMA	METAL
2012	9.31	1032279	2543497	1917254	3170521	1537210	1324584	712337
2013	11.06	1175776	2637726	1968148	4130039	1872039	1692146	561969
2014	6.65	1652171	2853639	2184321	4486358	2488229	2201592	683540
2015	4.91	2073348	3543419	2077709	5029874	2873115	3038530	534612

Table 1.1 Depicting the Inflation and select sectors of the National Stock Exchange in India for the period 2012-2021

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2016	4.95	2167756	4487621	2222466	5088924	2649070	2774800	551148
2017	3.33	2628063	4337396	3086294	6128154	2629051	2417302	815602
2018	3.95	2606946	5720545	3486706	7069691	3430270	2259722	877693
2019	3.72	1963478	6422280	3794884	7358038	3813345	2049611	670674
2020	6.62	1851215	7193225	3682135	7571450	4354873	2544680	582292
2021	5.10	2599008	6188636	5021732	9026615	7521131	3374532	1225632
				G DIEL	TION			

Chart 1.1 Depicting the Inflation and select sectors of the National Stock Exchange in India for the period 2012-2021



 Table 1.2

 Analysis of Pairwise Granger's causality for Inflation and select sectors of the National Stock Exchange in India for the period 2012-2021

-			
Null Hypothesis:	Obs	F-Statistic	Prob.
NIFTY AUTO does not Granger Cause INFLATION	8	2.45864	NA
INFLATION does not Gran Cause NIFTYAUTO	ger	1.72980	0.3165
NIFTY BANK does not Granger Cause INFLATION	8	0.49406	0.6524
INFLATION does not Gran Cause NIFTYBANK	2.71034	0.2126	
NIFTY ENERGY does not Granger Cause INFLATION	8	0.73873	0.5484
INFLATION does not Gran Cause NIFTY ENERGY	ger	0.92737	0.4858
NIFTYFMCG does not Granger Cause INFLATION	8	0.52371	0.6381
INFLATION does not Gran Cause NIFTYFMCG	0.15283	0.8646	
NIFTYIT does not Granger	8	0.29053	0.7668

_							
	7069691	3430270	225	59722		877693	
	7358038 3813345		204	2049611		670674	
	7571450	4354873	254	14680		582292	
	9026615	7521131	337	74532		1225632	
T	Cause INFLA	TION					
	INFLATION Cause NIFTY	does not Gran IT	ger	1.61429)	0.3343	
	NIFTY META Granger Cause INFLATION	AL does not	8	2.56911	L	0.2238	
ļ	INFLATION Cause NIFTY	does not Gran METAL	ger	5.42978	3	0.1007	
	NIFTY PHAR Granger Cause INFLATION	RMA does not	8	1.59226	5	0.3378	
	Cause NIFTY	uoes not Gran PHARMA	ger	0.08264	1	0.9227	
ſ	NIFTY BANK Granger Cause NIFTYAUTO	8	1.23909)	0.4053		
	NIFTY AUTO Cause NIFTY) does not Gra BANK	inger	4.02804	1	0.1413	
	NIFTY ENER Granger Cause NIFTYAUTO	8	0.22619)	0.8100		
	NIFTY AUTO Cause NIFTY) does not Gra ENERGY	inger	0.29982	2	0.7608	
ŀ	NIFTYFMCG Granger Cause NIFTYAUTO	does not	8	2.01883	3	0.2783	
Ĺ	NIFTY AUTO does not Grange Cause NIFTYFMCG			0.61058	3	0.5991	
	NIFTYIT does Cause NIFTY	s not Granger AUTO	8	12.8272	2	0.0339	
ļ	NIFTY AUTC) does not Gra IT	inger	1.07284	1	0.4452	
	NIFTY META Granger Cause NIFTYAUTO	AL does not	8	6.47746	5	0.0815	
	NIFTY AUTO Cause NIFTY) does not Gra METAL	inger	0.50783	3	0.6457	
Ľ							

NIFTY PHARMA does not Granger Cause	-	= ,	
NIFTYAUTO	8	1.47454	0.3581
NIFTY AUTO does not Gra Cause NIFTYPHARMA	nger	0.28588	0.7698
NIFTY ENERGY does not Granger Cause			
NIFTYBANK	8	2.68480	0.2146
NIFTY BANK does not Gra Cause NIFTYENERGY	inger	2.44485	0.2345
NIFTYFMCG does not			
Granger Cause NIFTYBANK	8	5.74705	0.0942
NIFTY BANK does not Gra	nger		
Cause NIFTYFMCG		1.36095	0.3796
NIFTYIT does not Granger Cause NIFTYBANK	8	0.01884	0.9815
NIFTY BANK does not Gra Cause NIFTYIT	1.00608	0.4631	
NIFTY METAL does not			
Granger Cause NIFTYBANK	8	1.82352	0.3032
NIFTY BANK does not Gra Cause NIFTYMETAL	inger	3.62235	0.1585
NIFTY PHARMA does not			
Granger Cause NIFTYBANK	8	0.35965	0.7244
NIFTY BANK does not Gra Cause NIFTYPHARMA	inger	1.65190	0.3283
NIFTYFMCG does not			
Granger Cause NIFTY ENERGY	8	0.38896	0.7076
NIFTY ENERGY does not Granger Cause NIFTYFMC	0.07578	0.9287	
NIFTYIT does not Granger Cause NIFTY ENERGY	8	0.73106	0.5513
NIFTY ENERGY does not Granger Cause NIFTYIT		0.22432	0.8114
NIFTY METAL does not Granger Cause NIFTY ENERGY	8	2 26782	0.2512
ENERU I	0	2.20/82	0.2312

NIFTY ENERGY does not Granger Cause NIFTYMETX3.402930.1692NIFTY PHARMA does not Granger Cause NIFTY80.494440.6522NIFTY ENERGY does not Granger Cause NIFTYPHATA0.623900.5933NIFTY ENERGY does not Granger Cause NIFTYFMCG80.409510.6962NIFTYFMCG does not Granger Cause NIFTYT0.172270.8495NIFTY METAL does not Granger Cause85.255710.1046NIFTY METAL does not Granger Cause85.255710.1046NIFTY PHARMA does not Granger Cause80.070510.9334NIFTY PHARMA does not Granger Cause NIFTYPHARMA80.430850.6847NIFTY METAL does not Granger Cause80.430850.6847NIFTY PHARMA does not Granger Cause NIFTYPHARMA80.400510.3418NIFTY METAL does not Granger Granger Cause NIFTYPHARMA80.906250.4922NIFTY METAL does not Granger Cause NIFTYIT80.906250.4922NIFTY PHARMA does not Granger Cause NIFTYIT80.906250.4922NIFTY PHARMA does not Granger Cause NIFTYIT80.061760.9413NIFTY PHARMA does not Granger Cause80.061760.9413NIFTY PHARMA does not Granger Cause80.061760.9413NIFTY PHARMA does not Granger Cause80.061760.9413NIFTY PHARMA does not Granger Cause80.061760.9413NIFTY METAL does not Granger Cause NIFTYPHARMA80.048400.9535 </th <th></th> <th></th> <th></th> <th></th>				
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NIFTY ENERGY does not Granger Cause NIFTYPHACM0.623900.5935NIFTYIT does not Granger Cause NIFTYFMCG does not Granger Cause NIFTYIT0.409510.6962NIFTY METAL does not 	NIFTY PHARMA does not Granger Cause NIFTY ENERGY	8	0.49444	0.6522
NIFTYIT does not Granger Cause NIFTYFMCG does not Grazer Cause NIFTYIT0.409510.6962NIFTYFMCG does not Grazer Granger Cause NIFTYFMCG0.172270.8495NIFTY METAL does not Granger Cause NIFTYFMCG does not Grazer 	NIFTY ENERGY does not Granger Cause NIFTYPHA	RMA	0.62390	0.5935
NIFTYFMCG does not Gramer Cause NIFTYIT 0.17227 0.8495 NIFTY METAL does not Gramer Cause NIFTYMCG does not Gramer Cause NIFTYMETAL 6.67995 0.0785 NIFTY PHARMA does not Gramer Cause NIFTYMETAL 6.67995 0.0785 NIFTY PHARMA does not Gramer Cause NIFTYPHARMA 2.77908 0.07051 0.9334 NIFTYFMCG does not Gramer 2.77908 0.2075 NIFTY METAL does not Gramer 2.77908 0.2075 NIFTY PHARMA does	NIFTYIT does not Granger Cause NIFTYFMCG	8	0.40951	0.6962
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NIFTYFMCG does not Granger Cause NIFTYMETAL 6.67995 0.0785 NIFTY PHARMA does not Granger Cause NIFTYFMCG does not Granger Cause NIFTYPHARMA 5 NIFTY METAL does not Granger Cause NIFTYIT 8 NIFTY METAL does not Granger Cause NIFTYIT 8 NIFTY PHARMA does not Granger Cause NIFTY PHARMA does not Granger Cause NIFTY PHARMA does not Granger Cause NIFTY METAL does not Granger Cause NIFTYPHARMA 5 NIFTY METAL does not Granger Cause NIFTY METAL does not Granger Cause NIFTY	NIFTY METAL does not Granger Cause NIFTYFMCG	8	5.25571	0.1046
NIFTY PHARMA does not Granger Cause NIFTYFMCG does not Granger Cause NIFTYPHARMA 2.77908 0.2075 NIFTY METAL does not Granger Cause NIFTYIT 8 0.43085 0.6847 NIFTYIT does not Granger Cause NIFTYMETAL 1.56816 0.3418 NIFTY PHARMA does not Granger Cause NIFTYIT 8 0.90625 0.4922 NIFTYIT does not Granger Cause NIFTYPHARMA does not Granger Cause NIFTYIT 8 0.90625 0.4922 NIFTYPHARMA does not Granger Cause NIFTYIT 8 0.90625 0.4922 NIFTYPHARMA does not Granger Cause NIFTYIT 8 0.90625 0.4922	NIFTYFMCG does not Gra Cause NIFTYMETAL	nger	6.67995	0.0785
NIFTYFMCG does not Granger Cause NIFTYPHARMA2.779080.2075NIFTY METAL does not Granger Cause NIFTYIT80.430850.6847NIFTYIT does not Granger Cause NIFTYMETAL1.568160.3418NIFTY PHARMA does not Granger Cause NIFTYIT80.906250.4922NIFTYIT does not Granger Cause NIFTYIT does not Granger Cause NIFTYPHARMA1.593510.3376NIFTY PHARMA does not Granger Cause NIFTYPHARMA1.593510.90413NIFTY PHARMA does not Granger Cause NIFTYPHARMA80.061760.9413NIFTY METAL does not Granger Cause NIFTYPHARMA0.048400.9535	NIFTY PHARMA does not Granger Cause NIFTYFMCG	8	0.07051	0.9334
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NIFTY PHARMA does not Granger Cause NIFTY METAL does not Granger Cause NIFTYPHARMA80.061760.94130.048400.9535	NIFTYIT does not Granger NIFTYPHARMA	1.59351	0.3376	
NIFTY METAL does not Granger Cause NIFTYPHARMA0.048400.9535	NIFTY PHARMA does not Granger Cause NIFTYMETAL	8	0.06176	0.9413
	NIFTY METAL does not G Cause NIFTYPHARMA	ranger	0.04840	0.9535

Table 1.2 shows the Pairwise Granger causality for inflation and select sectors of the National Stock Exchange in India for the period 2012-2021. According to the results apart from Nifty IT granger cause Nifty AUTO where as other than this variable neither of the variable granger cause any of the select sectors' national stock exchange nor Granger cause inflation.

Covariance					
Correlation					
t-Statistic					
Probability	INFLATION	NIFTYAUTO	NIFTYBANK	NIFTY ENERGY	NIFTYFMCG
INFLATION	5.698100				
	1.000000				
	-1133516.	2.91E+11			
	-0.880389	1.000000			
	-5.250619				
	0.0008				
NIFTY AUTO					
	-2217721.	5.13E+11	2.62E+12		
	-0.574501	0.588269	1.000000		
	-1.985249	2.057560			
	0.0824	0.0736			
NIFTY BANK					
	-1197300.	3.40E+11	1.37E+12	9.76E+11	
	-0.507830	0.638233	0.856832	1.000000	
	-1.667360	2.344887	4.700371		
	0.1340	0.0471	0.0015		
IFTY ENERGY					
	-2521601.	6.82E+11	2.58E+12	1.66E+12	3.01E+12
	-0.608760	0.728424	0.918514	0.967415	1.000000
	-2.170320	3.007173	6.570647	10.80696	
	0.0618	0.0169	0.0002	0.0000	
NIFTY FMCG					
	-1522350.	5.04E+11	1.91E+12	1.46E+12	2.51E+12
	-0.394984	0.578653	0.730319	0.916801	0.895630
	-1.216063	2.006778	3.023916	6.493406	5.695210
	0.2586	0.0797	0.0165	0.0002	0.0005
NIFTY IT					
	-147522.4	5.90E+10	1.11E+11	1.48E+11	2.14E+11
	-0.308893	0.546495	0.343805	0.748121	0.615085
	-0.918605	1.845720	1.035552	3.188856	2.206478
	0.3852	0.1021	0.3307	0.0128	0.0584
NIFTY METAL					
	-811988.8	2.30E+11	4.35E+11	2.88E+11	6.23E+11
	-0.587873	0.735522	0.464995	0.504270	0.620352
ΙΕΤΎ ΟΠΑ ΌΜΑ	2 055443	3 070657	1 485581	1 651669	2 237113

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0.0739	0.0153	0.1757	0.1372	0.0557

Table 1.3 reveals the covariance analysis and correlation analysis among the inflation and select sectors of the National Stock Exchange in India for the period 2012-2021. Nifty AUTO has a high positive relationship with Inflation with the value of .088 and they have negative covariance. Nifty ENERGY has a strong positive relationship with Nifty AUTO with a value 0.638 and Nifty BANK with a value of .0856. and Nifty FMCG has a strong negative relationship with Inflation with value -.608, Nifty AUTO at 0.728, Nifty BANK at 0.918 and Nifty ENERGY with value 0.967. Nifty IT has strong positive relationship with Nifty BANK with a value of 0.730, Nifty ENERGY with value 0.916, and Nifty FMGC at 0.895. Apart from that Nifty METAL has a strong positive relationship with Nifty AUTO with the value of 0.735 and Nifty FMCG with value 0.615. And Nifty PHARMA has strong relationship with Nifty AUTO with the value of 0.735 and Nifty FMCG with value 0.620. hence two of the select sectors have of National Stock Exchange have strong positive relationship, hence it can be concluded that there is relationship among select sectors of national stock exchange and inflation in India where the significant value is below 0.05.

Table 1.4

Regression Analysis for the inflation and select sectors of the National Stock Exchange in India for the period 2012-2021

Model summar	Model summary for inflation and select sectors of the National Stock Exchange in India for the period 2012-2021						
Particulars	Particulars	R	R Square	Adjusted R Square	Durbin Watson		
	NiftyAUTO	0.880	0.775	0.747	2.044		
T)	NiftyBANK	0.575	0.33	0.246	0.774		
ON	NiftyENERGY	0.508	0.258	0.165	0.392		
PEN	NiftyFMCG	0.609	0.371	0.292	0.532		
INI) IINDEI	NiftyIT	0.395	0.156	0.051	0.527		
	NiftyPHARMA	0.588	0.346	0.264	1.104		
	NiftyMETAL	0.309	0.095	-0.018	1.422		

Table 1.4 exhibits the Model summary for inflation and select sectors of the National Stock Exchange in India. When Inflation is kept is independent and select sectors of National stock exchange is dependent. R-value of Nifty AUTO is 0.880 which shows a strong relationship. R square value with 0.775 shows 75.5 percent of the proportion of variance in dependent variable that can be explained with independent variable. And Adjusted R -square value is 0.747 which shows a moderate fit and percentage variance explained by input variables that are not significant in model. And Durbin Watson value is 2.044 which means there is no auto correlation in the model. Nifty BANK has a R value of 0.575 which shows the relationship and R square value is 0.330 which means the proportion of variance dependents variable based on independent variable and the adjusted R square value of 0.246 which shows the fit of model is not good. And Durbin Watson is 0.774 which means that there is positive autocorrelation.

Nifty ENERGY has a R value of 0.508 which indicates the relationship. R square value of 0.258 shows the variance of dependent variable from the independent variable, and Adjusted R square value is 0.165 which means the model is not fit. Durbin Watson value is 0.392 which means negative autocorrelation prevails in the model. And Nifty FMCG has R value of 0.609 which shows a positive relationship. R square value is 0.371 which shows the variation among dependent and independent variable and adjusted r square value is 0.292 which shows model is not good to fit, Durbin Watson value is 0.532 model is suffering negative autocorrelation.

And the Nifty IT has a R value of 0.395 shows a low relationship square value of 0.156 shows the variation among the variables, Adjusted R square value of 0.051 indicates the model is not good to fit and Durbin Watson is 0.527 there prevails a negative autocorrelation. Nifty PHARMA has a R-value of 0.588 shows a positive relationship square value of 0.346 shows the variation among the variables, Adjusted R square value of 0.264 indicates the model is not good to fit and Durbin Watson is 1.104 there prevails a positive autocorrelation. Nifty METAL has a R-value of 0.309 shows a low relationship square value of 0.095 shows the variation among the variables, Adjusted R square value of -0.018 indicates the model is not good to fit and durbin Watson is 1.422 there prevails a negative autocorrelation.

 H_0 = there is no significant impact of inflation on select sectors of National stock exchange in India.

Table 1.5
ANOVA for inflation and select sectors of the National Stock
Exchange in India for the period 2012-2021

	ANOVA	F	Sig
	NiftyAUTO	27.569	0.001
(Lz	NiftyBANK	3.941	0.082
ON	NiftyENERGY	2.78	0.134
EPEI	NiftyFMCG	4.71	0.062
INFI (IND	NiftyIT	1.479	0.259

 NiftyPHARMA	4.225	0.074
NiftyMETAL	0.844	0.385

Table 1.5 depicts the ANOVA for inflation and selects sectors of the National Stock Exchange in India. The significant value of Nifty AUTO is below 0.05 which means there is an impact of inflation on nifty AUTO. And the significant value of Nifty FMCG AND Nifty PHARMA is close to the significant value where we can conclude by rejecting the null hypothesis, that there is an impact of inflation on select sectors of the National Stock exchange in India.

 Table 1.6

 Coefficient of inflation and select sectors of the National Stock

 Exchange in India for the period 2012-2021

	COEFFICIENT	standardized Beta Coefficient	T statistics	Sig
INFLATION (INDEPENDENT)	NiftyAUTO	-0.88	-5.251	0.001
	NiftyBANK	-0.575	-1.985	0.082
	NiftyENERGY	-0.508	-1.667	0.134
	NiftyFMCG	-0.609	-2.17	0.062
	NiftyIT	-0.395	-1.216	0.259
	NiftyPHARMA	-0.588	-2.055	0.074
	NiftyMETAL	-0.309	-0.919	0.385

Table 1.6 shows the Coefficient of inflation and select sectors of the National Stock Exchange in India. The significant value of Nifty AUTO is below 0.05 which means there is an impact of inflation on nifty AUTO. And the significant value of Nifty FMCG AND Nifty PHARMA is close to the significant value where we can conclude by rejecting the null hypothesis, that there is an impact of inflation on select sectors of the National Stock exchange in India.

Findings

- According to the results apart from Nifty IT granger cause Nifty AUTO where as other than this variable neither of the variable granger cause any of the select sectors national stock exchange nor granger cause inflation.
- Nifty AUTO has a high positive relationship with Inflation with the value of .088 and they have negative covariance.
- Nifty ENERGY has a strong positive relationship with Nifty AUTO with a value 0.638 and Nifty BANK with a value of .0856.

- Nifty FMCG has a strong negative relationship with Inflation with value -.608, Nifty AUTO at 0.728, Nifty BANK at 0.918, and Nifty ENERGY with value 0.967.
- Nifty IT has strong positive relationship with Nifty BANK with a value of 0.730, Nifty ENERGY with value 0.916 and Nifty FMGC at 0.895.
- Apart from that Nifty METAL has a strong positive relationship with Nifty ENERGY with a value of 0.748 and Nifty FMCG with a value of 0.615. And Nifty PHARMA has a strong relationship with Nifty AUTO with a value of 0.735 and Nifty FMCG with a value 0.620.
- There is a relationship among select sectors of the national stock exchange and inflation in India where the significant value is below 0.05.
- The significant value of Nifty AUTO is below 0.05 which means there is an impact of inflation on nifty AUTO.
- And the significant value of Nifty FMCG AND Nifty PHARMA is close to the significant value where we can conclude by rejecting the null hypothesis, that there is an impact of inflation on select sectors of the National Stock exchange in India.

Conclusion

From the above study, we can conclude that as a economic indicator inflation must has an impact of the price level changes of stock market whereas

Reference

- Mubarik, Y. A. (2005). "Inflation and Growth: An Estimate of the Threshold level of Inflation in Pakistan". SBP-Research Bulletin, vol.1 No.1-2, pp 35-44.
- Najid Ahmad, (2012). "the relationship between inflation and Economic growth in Pakistan," Asian Journal of Research in Business Economics and Management, vol.2, issue 9, pp 38-48
- Iqbal, N and Nawaz S. (2009) "Investment, Inflation and Economic Growth" The Pakistan Development Review, pp. 863-874.
- Nawaz, N. I. (2009). "Investment, Inflation, and Economic Growth Nexus,". The Pakistan Development Review, pp. 863-874.
- Paul. S.C. Kearney and K.Chowdhury, (1997) "Inflation and Economic Growth, a multicountry empirical analysis" Applied Economics, vol.29,pp1387-1401.
- Saaed, A. A. (2007). "Inflation and Economic Growth in Kuwait: 1985-2005, Evidence From Co-Integration and Error Correction Model," Applied Econometrics and International Development, pp. 143-155.
- Shahzad Hussain, S. M. (2011). Inflation and Economic Growth: Evidence from Pakistan. International Journal of Economics and Finance, pp. 262-276.