

Print ISSN: 2288-4637 / Online ISSN 2288-4645  
doi:10.13106/jafeb.2020.vol7.no5.009

## Stock Market Response to Elections: An Event Study Method

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Received: March 01, 2020 Revised: March 21, 2020 Accepted: April 03, 2020

### Abstract

The research paper examines the influence of elections on the stock market. The study analyses whether the market reaction would be the same when a party wins and comes to power for the second consecutive time. The study employs Market Model Event study methodology. The sample period taken for the study is 2014 to 2019. A sample of 31 companies listed in Bombay Stock Exchange is selected at random for the purpose of the study. For the elections held in 2014, an event window of 82 days was taken with 39 days prior to the event and 42 days post event. The event ( $t_0$ ) being the declaration of the election results. For the elections held in 2019 an event window of 83 days was taken with 41 days prior to the event and 41 days post event. The results indicate that the market reacts positively with significantly positive Average Abnormal Returns. The findings of the study reveal that the impact on the market is not the same between any two elections even when the same party comes to power for the second time. The semi-strong form of efficient market hypothesis holds true in the context of emerging markets like India.

**Keywords :** Financial Economics, Event study, Elections, Emerging Markets, Politics

**JEL Classification Code :** G41, D53, H11, D91

### 1. Introduction

The impact of politics on the stock market is a debated topic from times immemorial. India is one of the emerging economies with the largest democracy in the world, which operates in accordance with the constitution of 1950. India being the second most populous country in the world has the largest number of voters eligible to take part in elections. In any democracy the elected officials are accountable to

the people, and to continue in office they must be elected at prescribed intervals. For that reason, as per the Constitution of India, General Elections are held every five years and an elected party comes to power. Nordhaus (1975) was one of the pioneers to study of impact of politics on the stock market. The influence of politics on the stock market is explained with the semi-strong form of market efficiency hypothesis (Fama, 1970). They are called event studies (Fama, 1991).

In an event study, we can understand and measure how swiftly security prices react to announcements of election results in politics. In semi-strong Efficient Market Hypothesis, the existing market prices of stocks reflect all information publicly available. In semi-strong form of market efficiency, the market takes some time to reflect the information in price. The time taken to reflect depends on the market, on the stock and the way in which information is shared. The stock market reacts to the most possible or likely outcome of the election, even before the election day (Foster, 2012). This study attempts to check if there is a presence of semi-strong form of EMH in the Indian stock market. The authors in this study made an effort to observe the influence of politics on the stock market and its effect on the Average Abnormal Return on various stocks.

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## 2. Literature Review

There is an abundance of studies in the past, which dwelled into the influence of politics on the stock markets on economies around the world (Angela & Wilson, 2007; Bialkowski, Gottschalk, & Wisniewski, 2008; Chavali & Zahid, 2011; Hung, 2011; Kumar, Sophia, & Maria, 2015; Liu, 2007; Wong & Hooy, 2016). The pioneers who investigated the political angle of the financial markets in academic studies are Booth and Booth (2003) and Santa-Clara and Valkanov (2003). The reason for the impact of politics and elections on stock market is probably because of the expectation in the changes in the government policies which the newly elected party or person might bring in, which might impact tax rates and thereby the corporate performance. The effect on stock markets depends on policy changes which the individual party or person who comes to power carry out and its impact on reaction and sentiments of the market (Wang, Lee, & Ling, 2008)

Governments usually engage in increased consumption, increased spending in projects with high visibility prior to elections which can cause inflation. The anticipation of policy changes and increased uncertainty result in change of investors or market sentiments during the election period (Siokis & Kapopoulos, 2007). According to Leblang and Mukherjee (2005) there are numerous ways how financial markets react to elections. Lee and Brahmairene (2018) argue that there is no evidence of impact of global factors on the stock markets. They argue that it is the impact of macro-economic variables on stock market and stock prices in the short run rather than long run. They observed a positive relationship between macro variables and stock prices. Hong (2016) has a contrasting view and in his study argue that lack of availability of information otherwise called as information asymmetry hinders the stock prices to respond to economic conditions. The stock market volatility is because of the increase or decrease in the demand of shares when the supply is difficult to adjust in turn which alters stock prices.

Stocks become more volatile under the party that supports social equality and egalitarianism and when the market expects that party to win elections. Second, the expectations of inflation is low with a party who supports social or economic conservatism which increases demand for stocks and stimulates higher trading volume. This also leads to higher stock price volatility and higher mean. Nguyen and Nguyen (2019) in their study state that volatility increases the attractiveness of stock market for investors. Investors do not react to good and bad news in the same way. The impact on the stock market is higher for bad news compared to the good news. As per their study, it is observed that the volatility is higher when the investors perceive the news as not so good compared to good news.

Gomez and Jomo (1999) recognize the presence of a relationship between politics and companies. As per their study on an average company, which has political connections, it does better and significantly benefits during elections. It is also observed that the companies owned by Government react more to election results than private companies. This could be because during elections, politicians use companies owned by Government for political purposes (Dinc, 2005).

Huang (1985) examined and established a relation between stock market return and elections which is statistically significant. The impact on the stock markets is not the same and depends on the party that comes into power. As per their study, the stock market returns are bad in the first and second year after an election and improve in the third and fourth year. Returns are bad in the first two years because the market does not like uncertainty, which a new party brings. Siokis and Kapopoulos (2003) argues that if there are clear distinct ideological differences between the political parties in any country around the world those countries are perfect to examine the effect of General elections on financial markets. India falls into this category as there are vast differences in the ideologies of various parties. There are studies which examined the influence of elections on the stock market but studies have not explored the comparison of two General Elections in India and whether the impact on the Average Abnormal return on stocks would be the same when the same party comes to power for the second time. This study thus attempts to fill the gap by using event study methodology as an approach to examine Average Abnormal Return (AAR) and Cumulative Average Abnormal Return (CAAR) under different elections.

## 3. Research Methods and Materials

A sample of thirty one companies are selected at random for the research study. The data related to stock prices are taken from the Bombay Stock Exchange (BSE). The time period selected for the study was 20014 to 2019 (16th General Elections – 18th March 2014 to 15th July 2014 and 17th General Elections – 20th March 2019 to 23rd July 2019). The BSE 30 index closing prices for the respective period are taken. The event date is the day the result of the General Elections was declared, i.e. 16 May in 2014 and 23 May in 2019, which is taken as  $t_0$ . This study assumes that the information was known to the market on the event day or Election Day. In the 16th General Elections, the stock price of a total of 82 days are taken 39 days prior to the event day, event day ( $t_0$ ) and 42 days post-election and the event day. In the 17th General Elections, the stock price of a total of 83 days are taken 41 days prior to the election results, event day ( $t_0$ ) and 41 days post-election.

The Market Model Event study methodology is used in this study. The market model used by Fama, Fisher, Jensen, and Roll (1969) assumes a linear relationship between the

return of the security to the return of the market portfolio. This model unlike index model and Capital Asset Pricing model is free from criticisms and detects abnormal returns better than other methodologies. Market model is proven to yield valid results (Salamudin, Ariff, & Nassir, 1999). Market model methodology is a relatively powerful methodology applicable under wide variety of situations (Brown & Warner, 1985).

The study conducted uses daily prices of 82 trading days for 16th General Election and 83 days for 17th General Election is used for calculation of the regression coefficients for the sample companies. A 82 day event window, t-39 to t+42 in the 16th General Elections and 83 event window t-41 to t+41 in the 17th General Elections where event date (t0) is the announcement of election results for calculating the abnormal returns (AR) the average abnormal returns (AAR) of the sample of 31 companies and the cumulative average abnormal returns (CAAR) around the An date of stocks in the sample. A comparison of Pre-election, Election and Post-election AAR% returns and T statistics are calculated and compared for 16th and 17th General Elections.

The study undertakes to check if there is a positive average return around General Elections dates. The study examines the extent of influence of General Elections on the Indian stock market and the impact on the market sentiments between two elections would be the same when the same party comes to power for the second time.

**Null hypothesis (H0):** Average Abnormal Return AAR around the election result date is positive and is statistically significant

**Alternate hypothesis (Ha):** Average Abnormal Return AAR around the election result date is negative and is statistically significant

Table 1 shows the list of sample companies taken from BSE to test the impact of elections on stock market.

Table 2 shows the calculated regression coefficients  $\alpha$  and  $\beta$  values of the sample companies of 16th and 17th General Elections.

#### 4. Results and Discussion

Table 3 presents results for each of the 82 days' event window, 39 pre-election announcements, and 42 post-election announcements for the entire sample of 31 companies of the General Elections held in 2014. Table 3 reports average daily AR, AARs, CARs and CAAR for the days t-39 to t+41 along with the test statistics obtained using the MS Excel descriptive analysis tool for testing the null hypothesis. The AARs are negative on the days t-37,t-34,t-33,t-18,t-15,t-12,t-10, t-9, t-9,t-8,t-4,t-1 t0, t1,t3, t6, t8,t11 However, it is observed that there are significantly positive AARs on most of the post-election result announcement days.

CAAR is also seen to be significantly positive in the event window. This leads to acceptance of the null hypothesis (H0). This shows that the announcement of election results did boost for majority of the return of stocks in the sample. Indian National Congress party was in power in India for 49 long years since Independence and in the 16th General Elections in 2014 for the first time a new party (Bharatiya Janata Party) came into power. This positive market reaction in post-election can be attributed to the rapid absorption of the information and change in the party in power which is

**Table 1:** List of sample companies

Company Name	Industry
Lupin Ltd	Pharmaceutical
Wipro Ltd	Pharmaceutical
Tata Steel Ltd	Manufacturing
Tata Motors Ltd	Automobile
Tata Motors DVR Ordinary	Manufacturing
Tata Consultancy Services Ltd	Information Technology
Sun Pharmaceutical India Ltd	Healthcare
State Bank of India	Banking
Power Grid Corporation	Power
ONGC Ltd	Oil & Gas
NTPC Ltd	Power
Maruti Suzuki Ltd	Automobile
Mahindra & Mahindra Ltd	Automobile
L&T Ltd	Manufacturing
Kotak Mahindra Bank Ltd	Banking
ITC Ltd	FMCG
Infosys Ltd	Information Technology
Cipla	Healthcare
ICICI Bank Ltd	Banking
HDFC	Finance
Hindustan Unilever Ltd	FMCG
Hero Motor Corp	Automobile
HDFC Bank Ltd	Banking
Dr Reddy Labs Ltd	Healthcare
Coal India Ltd	Mining
Bharati Airtel Ltd	Telecom
Bajaj Auto Ltd	Automobiles
AXIS Bank	Banking
Asian Paints Ltd	Manufacturing
Adani Ports & SEZ Ltd	Infrastructure
Reliance Industries	Oil & Gas

**Table 2:** Firm characteristics regression coefficients using market model

Company Name	16 <sup>th</sup> General Elections 2014		17 <sup>th</sup> General Elections 2019	
	$\alpha$	$\beta$	$\alpha$	$\beta$
Lupin Ltd	0.0018	-0.048	0.0002	0.573
Wipro Ltd	-4.1E-05	0.108	0.0004	0.258
Tata Steel Ltd	0.0037	1.235	-0.001	1.436
Tata Motors Ltd	-0.0001	1.147	-0.0013	1.862
Tata Motors DVR Ordinary	0.0029	1.697	-0.0016	1.832
Tata Consultancy Services Ltd	0.0014	0.091	0.0006	0.475
Sun Pharmaceutical India Ltd	0.0028	0.0592	-0.0007	1.028
State Bank of India	0.0019	1.785	0.0017	1.621
Power Grid Corporation	0.0015	1.323	0.0007	0.521
ONGC Ltd	-0.0005	1.916	-0.0007	0.9743
NTPC Ltd	0.0006	1.262	-6.2E-06	0.7734
Maruti Suzuki Ltd	0.0022	1.213	-0.0015	1.4210
Mahindra & Mahindra Ltd	0.0003	0.772	-0.0022	1.2146
L&T Ltd	0.0005	1.583	0.0006	1.2712
Kotak Mahindra Bank Ltd	0.0009	0.863	0.0013	0.8954
ITC Ltd	-0.0006	0.334	-0.0011	0.6224
Infosys Ltd	-0.001	0.365	0.0011	0.3135
Cipla	0.0013	0.163	3.5E-05	0.7980
ICICI Bank Ltd	-0.0005	1.566	0.0006	1.3761
HDFC	-0.0003	1.070	0.0011	1.1894
Hindustan Unilever Ltd	0.0009	0.252	4.0E-05	0.5747
Hero Motor Corp	-8.61E-05	1.139	-0.0004	1.2600
HDFC Bank Ltd	-0.0003	1.022	9.4E-05	0.9298
Dr Reddy Labs Ltd	4.28E-05	-0.255	-0.0003	-0.0989
Coal India Ltd	0.0013	1.619	-0.0011	0.5245
Bharati Airtel Ltd	4.67E-06	0.850	-0.0008	1.0159
Bajaj Auto Ltd	-0.0003	0.569	-0.0018	0.6677
AXIS Bank	0.0021	1.351	-0.0004	1.1294
Asian Paints Ltd	0.0006	0.679	-8.1E-05	0.7352
Adani Ports & SEZ Ltd	0.0012	2.364	0.0012	1.1614
Reliance Industries	-0.0016	1.500	-0.0007	1.1735

perceived positively by the market and reflected in the stock prices.

Table 4 shows the results for each of the 83 days' event window, 41 pre-election announcements, and 41 post-election announcements for the entire sample of 31 companies of the 17th General Elections conducted in 2019. It reports the average daily AR, AARs, CARs and CAAR for the days t-41 to t+41 along with the test statistics obtained

using the MS Excel descriptive analysis tool for testing the null hypothesis. The AARs are negative on the days t-41,t-39,t-38,t-37,t-36,t-32,t-30, t-23, t-12,t-9, t-6,t-4,t-3, t3, t4,t5 t6, t8, t10, t11, t13,t15 ,t18 However, it is observed that there are significantly positive AARs on most of the post-election result announcement days. CAAR is also seen to be significantly positive in the event window. The null hypothesis (H0) is accepted. It indicates that post-election

**Table 3:** Daily Average AR and t statistics of 16th General Elections (2014) as per Market Model

Day t	AAR%	T stat	Null hypothesis test	CAR%	CAAR%
-39	30.154	0.8416	Can't Reject Ho	9.35	30.15
-38	16.355	0.5042	Can't Reject Ho	5.07	46.51
-37	-20.330	-0.916	Can't Reject Ho	-6.30	26.18
-36	11.196	0.4130	Can't Reject Ho	3.47	37.37
-35	12.327	1.5516	Can't Reject Ho	3.82	49.70
-34	-19.434	-0.692	Can't Reject Ho	-6.02	30.27
-33	29.494	1.3216	Can't Reject Ho	9.14	59.76
-32	-2.280	-0.081	Can't Reject Ho	-0.71	57.48
-31	15.788	0.6910	Can't Reject Ho	4.89	73.27
-30	30.567	1.5974	Can't Reject Ho	9.48	103.84
-29	11.129	0.4101	Can't Reject Ho	3.45	114.97
-28	15.586	0.5371	Can't Reject Ho	4.83	130.55
-27	19.570	0.7862	Can't Reject Ho	6.07	150.12
-26	5.093	0.2357	Can't Reject Ho	1.58	155.22
-25	-1.803	-0.107	Can't Reject Ho	-0.56	153.41
-24	7.397	0.3779	Can't Reject Ho	2.29	160.81
-23	19.781	0.5832	Can't Reject Ho	6.13	180.59
-22	30.277	0.9954	Can't Reject Ho	9.39	210.87
-21	20.362	1.1130	Can't Reject Ho	6.31	231.23
-20	-0.178	-0.005	Can't Reject Ho	-0.06	231.05
-19	19.615	0.6324	Can't Reject Ho	6.08	250.67
-18	-3.409	-0.143	Can't Reject Ho	-1.06	247.26
-17	2.159	0.0677	Can't Reject Ho	0.67	249.42
-16	-6.497	-0.350	Can't Reject Ho	-2.01	242.92
-15	-17.188	-0.886	Can't Reject Ho	-5.33	225.73
-14	10.309	0.3681	Can't Reject Ho	3.20	236.04
-13	7.565	0.3249	Can't Reject Ho	2.35	243.61
-12	-25.262	-1.208	Can't Reject Ho	-7.83	218.34
-11	2.715	0.1301	Can't Reject Ho	0.84	221.06
-10	-7.308	-0.347	Can't Reject Ho	-2.27	213.75
-9	-9.372	-0.464	Can't Reject Ho	-2.91	204.38
-8	-18.227	-0.927	Can't Reject Ho	-5.65	186.15
-7	10.839	0.4710	Can't Reject Ho	3.36	196.99
-6	3.600	0.2512	Can't Reject Ho	1.12	200.59
-5	-1.335	-0.058	Can't Reject Ho	-0.41	199.26
-4	-14.566	-0.436	Can't Reject Ho	-4.52	184.69
-3	13.194	0.3697	Can't Reject Ho	4.09	197.88
-2	35.672	0.9876	Can't Reject Ho	11.06	233.56
-1	-7.960	-0.252	Can't Reject Ho	-2.47	225.60
0	-7.15	-0.158	Can't Reject Ho	-2.22	218.44
1	-5.239	-0.067	Can't Reject Ho	-1.62	213.20

2	7.502	0.1784	Can't Reject Ho	2.33	220.71
3	-1.529	-0.051	Can't Reject Ho	-0.47	219.18
4	5.651	0.1641	Can't Reject Ho	1.75	224.83
5	25.969	0.7215	Can't Reject Ho	8.05	250.80
6	-25.448	-0.687	Can't Reject Ho	-7.89	225.35
7	4.728	0.2224	Can't Reject Ho	1.47	230.08
8	-15.540	-0.532	Can't Reject Ho	-4.82	214.54
9	21.709	0.6864	Can't Reject Ho	6.73	236.25
10	85.441	1.8576	Can't Reject Ho	26.49	321.69
11	-20.304	-0.6846	Can't Reject Ho	-6.29	301.38
12	3.895	0.1039	Can't Reject Ho	1.21	305.28
13	26.756	1.0609	Can't Reject Ho	8.29	332.04
14	-0.505	-0.018	Can't Reject Ho	-0.16	331.53
15	41.473	1.0981	Can't Reject Ho	12.86	373.00
16	52.163	1.2925	Can't Reject Ho	16.17	425.17
17	15.214	0.5049	Can't Reject Ho	4.72	440.38
18	12.577	0.3938	Can't Reject Ho	3.90	452.96
19	10.863	0.4042	Can't Reject Ho	3.37	463.82
20	-36.040	-1.649	Can't Reject Ho	-11.17	427.78
21	-16.785	-0.691	Can't Reject Ho	-5.20	410.99
22	10.282	0.4805	Can't Reject Ho	3.19	421.28
23	30.313	1.2527	Can't Reject Ho	9.40	451.59
24	15.818	0.4121	Can't Reject Ho	4.90	467.41
25	18.664	1.0143	Can't Reject Ho	5.79	486.07
26	33.677	0.9305	Can't Reject Ho	10.44	519.75
27	-36.113	-1.953	Reject Ho	-11.20	483.64
28	20.544	0.6784	Can't Reject Ho	6.37	504.18
29	20.849	0.8620	Can't Reject Ho	6.46	525.03
30	30.337	0.8674	Can't Reject Ho	9.40	555.36
31	0.328	0.0129	Can't Reject Ho	0.10	555.69
32	14.557	0.4735	Can't Reject Ho	4.51	570.25
33	33.389	1.0479	Can't Reject Ho	10.35	603.64
34	-0.949	-0.040	Can't Reject Ho	-0.29	602.69
35	-1.899	-0.112	Can't Reject Ho	-0.59	600.79
36	7.226	0.2799	Can't Reject Ho	2.24	608.02
37	-36.867	-1.407	Can't Reject Ho	-11.43	571.15
38	-26.918	-0.977	Can't Reject Ho	-8.34	544.23
39	1.841	0.0834	Can't Reject Ho	0.57	546.07
40	4.388	0.1456	Can't Reject Ho	1.36	550.46
41	22.465	0.8201	Can't Reject Ho	6.96	572.93
42	6.570	0.2593	Can't Reject Ho	2.04	579.50

**Table 4:** Daily Average AR and t statistics of 17th General Elections (2019) as per Market Model

Day t	AAR%	T stat	Reject/Accept	CAR	CAAR
-41	-0.570	-2.1181	Reject Ho	-17.678	-0.570
-40	0.109	0.4778	Can't Reject Ho	3.369	-0.462
-39	-0.118	-0.4855	Can't Reject Ho	-3.673	-0.580
-38	-0.198	-1.0064	Can't Reject Ho	-6.144	-0.778
-37	-0.380	-2.5089	Can't Reject Ho	-11.790	-1.159
-36	-0.237	-0.8605	Can't Reject Ho	-7.346	-1.396
-35	0.293	1.6522	Can't Reject Ho	9.075	-1.103
-34	0.513	1.3251	Can't Reject Ho	15.894	-0.590
-33	1.320	3.2362	Can't Reject Ho	40.914	0.730
-32	-0.530	-2.9011	Reject Ho	-16.427	0.200
-31	0.018	0.0866	Can't Reject Ho	0.566	0.218
-30	-0.116	-0.6118	Can't Reject Ho	-3.592	0.102
-29	0.035	0.1975	Can't Reject Ho	1.077	0.137
-28	0.213	0.8280	Can't Reject Ho	6.596	0.350
-27	0.775	2.4060	Can't Reject Ho	24.034	1.125
-26	0.151	0.8189	Can't Reject Ho	4.692	1.276
-25	0.112	0.5567	Can't Reject Ho	3.484	1.389
-24	0.702	1.7484	Can't Reject Ho	21.749	2.090
-23	-0.196	-0.9878	Can't Reject Ho	-6.089	1.894
-22	0.127	0.5885	Can't Reject Ho	3.926	2.021
-21	0.496	2.7846	Can't Reject Ho	15.385	2.517
-20	0.039	0.1293	Can't Reject Ho	1.213	2.556
-19	-0.678	-2.3051	Reject Ho	-21.016	1.878
-18	0.260	1.6540	Can't Reject Ho	8.064	2.138
-17	-0.443	-1.2868	Can't Reject Ho	-13.729	1.695
-16	-0.068	-0.2769	Can't Reject Ho	-2.118	1.627
-15	-0.193	-0.7088	Can't Reject Ho	-5.985	1.434
-14	0.096	0.4486	Can't Reject Ho	2.986	1.530
-13	0.022	0.1093	Can't Reject Ho	0.680	1.552
-12	-0.109	-0.4020	Can't Reject Ho	-3.387	1.443
-11	0.034	0.2362	Can't Reject Ho	1.060	1.477
-10	0.137	0.6385	Can't Reject Ho	4.234	1.614
-9	-0.095	-0.3239	Can't Reject Ho	-2.950	1.519
-8	-0.662	-1.8576	Reject Ho	-20.507	0.857
-7	0.170	0.5546	Can't Reject Ho	5.275	1.027
-6	-0.817	-2.5988	Reject Ho	-25.315	0.211
-5	0.074	0.3587	Can't Reject Ho	2.308	0.285
-4	-0.421	-1.3574	Can't Reject Ho	-13.049	-0.136
-3	-0.146	-0.4345	Can't Reject Ho	-4.538	-0.282
-2	-0.593	-2.0608	Reject Ho	-18.387	-0.875
-1	0.207	1.0661	Can't Reject Ho	6.419	-0.668

0	0.537	1.7188	Can't Reject Ho	16.651	-0.131
1	0.120	0.5219	Can't Reject Ho	3.712	-0.011
2	0.014	0.0482	Can't Reject Ho	0.424	0.002
3	-0.189	-0.9039	Can't Reject Ho	-5.847	-0.186
4	-0.369	-1.6518	Reject Ho	-11.433	-0.555
5	-0.250	-1.0807	Can't Reject Ho	-7.742	-0.805
6	-0.007	-0.0309	Can't Reject Ho	-0.206	-0.812
7	0.243	0.8880	Can't Reject Ho	7.542	-0.568
8	-0.006	-0.0293	Can't Reject Ho	-0.199	-0.575
9	0.416	1.9421	Can't Reject Ho	12.886	-0.159
10	-0.516	-2.8257	Reject Ho	-16.007	-0.675
11	-0.050	-0.2352	Can't Reject Ho	-1.544	-0.725
12	0.021	0.0957	Can't Reject Ho	0.643	-0.705
13	-0.002	-0.0116	Can't Reject Ho	-0.056	-0.706
14	0.040	0.2853	Can't Reject Ho	1.255	-0.666
15	-0.090	-0.5286	Can't Reject Ho	-2.800	-0.756
16	-0.334	-1.7773	Reject Ho	-10.360	-1.090
17	-0.049	-0.2602	Can't Reject Ho	-1.508	-1.139
18	-0.534	-1.7948	Reject Ho	-16.555	-1.673
19	0.147	0.6200	Can't Reject Ho	4.550	-1.526
20	0.103	0.5133	Can't Reject Ho	3.190	-1.423
21	-0.038	-0.1609	Can't Reject Ho	-1.191	-1.462
22	0.057	0.3255	Can't Reject Ho	1.774	-1.405
23	0.381	1.7172	Can't Reject Ho	11.816	-1.023
24	0.270	1.0954	Can't Reject Ho	8.373	-0.753
25	-0.038	-0.2262	Can't Reject Ho	-1.185	-0.792
26	0.059	0.2145	Can't Reject Ho	1.827	-0.733
27	-0.281	-1.2478	Can't Reject Ho	-8.716	-1.014
28	-0.085	-0.8022	Can't Reject Ho	-2.643	-1.099
28	0.060	0.4004	Can't Reject Ho	1.850	-1.039
30	-0.857	-2.4947	Reject Ho	-26.563	-1.896
31	-0.528	-2.0366	Reject Ho	-16.371	-2.424
32	0.366	1.2729	Can't Reject Ho	11.350	-2.058
33	-0.104	-0.5124	Can't Reject Ho	-3.211	-2.162
34	0.373	1.5735	Can't Reject Ho	11.551	-1.789
35	0.179	0.6871	Can't Reject Ho	5.553	-1.610
36	-0.221	-0.6870	Can't Reject Ho	-6.863	-1.832
37	0.565	2.2827	Can't Reject Ho	17.518	-1.266
38	-0.435	-2.2904	Reject Ho	-13.498	-1.702
39	-0.728	-2.4580	Can't Reject Ho	-22.568	-2.430
40	-0.173	-0.7937	Can't Reject Ho	-5.377	-2.603
41	0.769	2.2467	Can't Reject Ho	23.833	-1.835



**Table 5:** Comparison of AAR across different event windows for the General Elections 2014 & 2019

16th General Elections 2014				
Event window	AAR%	T stat	Null hypothesis test	Significance
Pre-Election Phase	1.534	1.8142	Reject Ho	*
Election Phase	0.650	0.6156	Can't Reject Ho	-
Post-Election Phase	3.611	2.5297	Can't Reject Ho	-

\* Significant at 5% level of significance

17th General Elections 2019				
Event window	AAR%	T stat	Null hypothesis test	Significance
Pre-Election Phase	1.519	1.619	Can't Reject Ho	-
Election Phase	-1.650	-1.744	Can't Reject Ho	-
Post-Election Phase	-1.607	-1.198	Can't Reject Ho	-

\* Significant at 5% level of significance

announcements, the returns of the stocks did boost for majority of the stocks in the sample. A new party came into power the second time in the 17th General Elections.

Table 5 shows the comparison of AAR across different event windows for the 16th and 17th General Elections. In the pre-election phase stock market reaction was different for both the elections. In the 16th General Election  $H_0$  was rejected at 5-percent level of significance, but during the Election and the Post-Election phase the AAR was positive and  $H_0$  is accepted. This could be probably because the same party was in power for 49 long years and the expectation that any other party will win and gain majority was a difficult thing to believe taking the past history of Indian politics into consideration. The AAR in the Election and the post-election stage was positive probably because the people wanted the change and the reaction is shown in the returns of stock market. In the 17th General Elections, when a new party came to power for the second consecutive time, the AAR was found positive in the pre-election stage and became negative during elections and the post-election scenario. It is observed that the stock market reaction was more intense when a party came to power for the first time than the second time.

## 5. Conclusions

India being the largest democracy in the world, politics and elections have an important role to play. The study examines the extent of influence of General Elections on the Indian stock market and the impact on the market sentiments between two elections would be the same when the same party comes to power for the second time. A healthy economy increases the chances of re-election for an incumbent candidate or party. The study reveals that there is a positive market reaction to elections in terms of AAR%

in case of Indian stock market. A sample of 31 BSE listed companies are taken for the study. The AAR is computed for the 82 days event window around the event day – election results during 2014 and 2019. The study finds the evidence of a positive AR around the election dates and confirms that elections have a positive and a favorable impact on the stock market performance of stocks in the Indian context which is in line with the previous studies. However, it is observed that the stock market reaction was more intense when a party came to power for the first time than the second time.

The study is based on two general election cycles in India. The result holds true for the select sample and during the period considered for the study. It may not be generalized for different market environments. The implications of this study are that investors can take precautionary steps before trading in stocks in the period of General Election. Risk-averse investors can avoid trading around national elections to avoid the risk linked with volatility of stocks during the elections. The result of this study will help investors to understand the stock market better and evaluate the impact of politics on stock markets during elections.

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