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# "THE STUDY ON SCAM AND IT'S EFFECT ON COMPANIES STOCK PRICE WITH RESPECT TO **PUNJAB NATIONAL BANK"**

<sup>1</sup> Pinali Patel, <sup>2</sup> Nikita Patel, <sup>3</sup> Samir Thakkar

<sup>1</sup> M.B.A. student, <sup>2</sup> M.B.A. student, <sup>3</sup> Assistant professor.

Parul Institute of Management & Research Parul

University Waghodia, Vadodara, India.

Abstract: At a time when the government is aiming for bank recapitalization, the PNB scam comes as a huge below to the entire banking sector. The magnitude of PNB scam is very exorbitant and it has been happening for more than 5 years undetected. Our study examines that the stock price of Punjab National Bank will be impact or not during the scam arises. This study aims to find out the significance between news of scam and share price. The research applied correlation of Nifty PSU bank index and Punjab national bank.

Keywords: PNB, Scam, Stock Price, Nifty PSU bank index.

## 1. Introduction

On April 12, 1895, Punjab National Bank, India's first Swadeshi Bank, began operations from Lahore, with a Rs 2 shortage of approved capital and Rs 20,000 working capital. The Bank was founded in the spirit of nationalism and was the first bank purely own by Indian Capital. Throughout the long history of the bank, nine banks have merged with PNB. In view of the announcement of the merger of public sector banks in which the Oriental Bank of Commerce and the United Bank of India merged with the Punjab National Bank The financial year 2019- 20 was relevant with effect from 1 April 2020.

### How scam happened in PNB:-

The enforcement directorate took fresh action against Niray Modi and attached assets worth Rs 11,356.84 crore of the absconding diamantire in connection with its money laundering probe in the over USD 2 billion PNB fraud case.

They said that under the Prevention of Money Laundering Act (PMLA), the central probe agency released a provisional order attaching a number of Nirav Modi, his associates and business-linked firms' bank accounts, immovable assets and share investments.

Last week, over 34,000 pieces of jewellery worth Rs 85 crore from the Gitanjali Company, owned by the uncle and jeweller Mehul Choksi of Nirav Modi, were also seized by the agency in this case.

Nirav Modi and Choksi are being investigated by the Enforcement Directorate (ED) for allegedly cheating Punjab National Bank, the country's second largest lender, to the tune of more than USD 2 billion or over Rs 13,000 crore.

At least four of Modi's family members, including his father, brother, sister and brother-in- law, and his US-based business partner, Mihir Bhansali, were also recently summoned by the Agency in this case. The CBI and other enforcement agencies are also testing this case.

Such agencies now believe that Niray Modi and Choksi might now be in the U.S. (US).

The ED had attached more than Rs 7,600 crore worth of assets of all the accused in this case until March, according to records. The duo and others are being investigated under various criminal laws after the fraud came to light this year following a complaint by PNB that they allegedly cheated the nationalized bank to the tune of more than Rs 13,000 crore, with the alleged involvement of a few bank employees.

The Central Bureau of Investigation and the ED have registered two first information reports each in the case.

In the case before a Mumbai court, the CBI filed two charge sheets last week, while the ED is expected to soon file its own prosecution complaint.

The ED complaint or charge sheet will concentrate on the aspect of money laundering and Nirav Modi, Choksi and others' role in perpetrating the alleged fraud.

It is said that both Nirav Modi and Choski left the country before criminal cases were filed against them.

## 2. Literature review

Paresh Wagh in (2019) studied to identification of scam and its analysis, what are the failure and internal processes and practices caused scam and analyzing comprehensively on Punjab National Bank scam. He identified that SWIFT transaction were held from last 7 years and there was no planning in risk management system. There was a new reform after this scam that was mandatory to be adapted by bank and it was been closely watched by RBI of its working.

Ashit and Ankur (2019) examine to understand the criminal liability of company and to knows the fines and penalties put on the company and its directors. The empirical result it is important to take some serious action in relation to the criminal liability of the company so that it would be stopped. If this will happen continuously then amount of investors will decreases.

NVR rajagopalan (2014) examine the satyam computer service limited scam in India. The share price of selected price of select IT companies were collected from process data base and NSE website and cross verified to confirm the same price data. They found the very high negative abnormal returns were observed in the case of satyam.

Asst prof Divyang Joshi (2018) stated to find the impact of earning news on stock price, and the corporate announcement have very important impact on the individual investor. He founded that they founded an abnormal change was observed when news was introduced. After the event volume goes down so earning news has impact on investor.

Dhanraj, Ruchita and Shiney (2019) investigate the concept of the reaction of stock price of Indian banks with respect to announcement of frauds. The empirical result indicates that announcement of frauds affect the stock price of banks. The study found negative abnormal loss on the event day which further increased in post- event period.

# 3. Objective

- (1) To find out the significance between news of scam and share price.
- (2) To analyze trend and correlation of Nifty PSU bank index and Punjab National Bank.

## 4. Research methodology

Research methodology is outline the plan and method that how the study is conduct. So, Mention below detail about it.

Research Design: Descriptive research design

**Source of data:** We collect data from secondary sources i.e. from NSE and Money control website about the stock prices of that particular period.

Data collection method: Secondary data

**Population:** In that research we have taken the population of NIFTY Banks.

**Sample size:** News of PNB scam before 15 days and after 15 days.

**Sampling method:** stratified random sampling method.

Statistical tools for analysis: Co-relation method, charts.

## 5. Data analysis

In the analysis of the share price of PNB and Nifty PSU bank index we have been calculating of the time period from 29/01/2018 to 18/05/2018 for the PNB shares and we took the 2 years index of 2017 and 2018.

#### To prove the hypothesis of

**H0** (A): There is no significant effect of the scam on share price of PNB in the short run.

H1 (A): There is significant effect of the scam on share price of PNB in short run.

We have been first of all listed down the list of news of scam which were given the time period of 29/1/2018 to 18/05/2018.

We took the share price data and index data and calculated the return of the same by

I.e. **Return** = LN (present date share price and index /previous date share price and index) In –

logarithm of number

Further to it we calculated the **Intercept** i.e. (alpha), **Slope** i.e. (beta), **Standard error** and **standard error** i.e. (square root)

**Intercept** = intercept of return of share price and index (start: end share price, start: end index)

**Slope** = Slope of return of share price and index (start: end share price, start: end index)

**Standard Error** = STEYX of return of share price and index (start: end share price, start: end index)

**R square** = RSQ of return of share price and index (start: end share price, start: end index).

We took the data of the PNB share price as per all the news headlines date by 15 before the headline and

15 days after news.

We calculated the abnormal return, T test, and Significance and Cumulative average return.

**Abnormal return** = (return of PNB on a date) – (intercept) + (slope \* return of nifty PSU bank date.

**T test** = (abnormal return / standard error)

**Significance** =IF(Value of T test<1.96,"yes","no")

**Cumulative abnormal return** = pervious date abnormal return + present date abnormal return.

We concluded the data calculation by seeing the news impact on stock price of PNB by the majority of significance and the chart of cumulative average return.

Date	News	Significance
29/1/2018	Punjab Nat <mark>ional</mark> Bank (PNB) files police complaint	Yes
	against Nirav Modi, Mehul Choksi and others accusing	
	fraud to the tune of Rs 2.81 billion.	
5/2/2018	CBI Books Billionaire Niray Modi In Rs 280 Cr	Yes
	Cheating Case.	
	The CBI has booked diamond merchant Nirav Modi, his	
	brother, wife and a business partner for allegedly	
	cheating the Punjab National Bank (PNB) of over Rs	
4.0	280.70 crore in 2017, officials said.	
14/2/2010		***
14/2/2018	Punjab National Bank says detects \$1.77 billion	Yes
1	worth of fraudulent transactions.	
	The bank said in a statement the transactions were "for	3
	the benefit of a few select account holders with their	
	apparent connivance" and that "based on these	
	transactions other banks appear to have advanced	
	money to these customers abroad."	
	money to these customers abroad.	
15/2/2018	Nobody will be spared: Finance Minister on PNB	Yes
	fraud case.	
	Talking to reporters on the PNB fraud case, Financial	
	Services Secretary Rajiv Kumar said the bank will make	
	the required provisioning and it has "sufficient" funds	
	for it.	

15/2/2018	Modus operandi of the \$1.8 billion PNB-Nirav Modi	Yes
	scam.	
	The fraud came to light when the corrupt PNB official retired. When the Nirav Modi and Gitanjali firms requested for fresh LoUs, they were denied, since the records did not mention any such arrangement.	
15/2/2018	PNB Scam: Bank's MD and CEO breaks silence on	Yes
	Rs 11,000 crore scam.	
	The bank's top management spoke about how they uncovered the fraud and the steps it has taken to "punish the culprits", reiterating their resolve for clean banking.	
15/2/2018	SWIFT and Tripping: How Punjab National Bank's	Yes
	Rs 11,000 cr scam was operated.	
	Foreign branches of at least two Indian banks including	
	Axis Bank and Allahabad Bank are likely to have been	
	caught in the fraud with an alleged credit offering given	
	based on letters of undertaking (LOUs) issued by PNB.	
17/2/2018	Punjab National Bank scam: CBI arrests 3	Yes
	accused including 2 former PNB employees  First three arrests have been made in the Punjab	/61
	National Bank (PNB) fraud case.	
21/2/2018	CBI arrests PNB's GM-rank officer in fraud case	Yes
	Rajesh Jindal, who was the head of the Brady House,	
	Mumbai, branch of the bank during 2009-11, was taken	
	into custody last night, they said.	
23/2/2018	PNB Fraud Case: Nirav Modi & Mehul Choksi's	Yes
	web of LLP firms under scanner – Full List	
	Over Rs 11,400 crore was siphoned-off through Punjab	
	National Bank (PNB) issuing LOUs to Modi.	

25/2/2018	PNB fraud case: Scam may cost banking sector much more than Rs 11,400 crore	Yes
	The final bill of the PNB fraud to the Indian banking system could well be in the vicinity of Rs 21,000 crore	

27/2/2018	PNB fraud case: More unauthorized transactions at the bank The latest in the Punjab National Bank (PNB) fraud case the bank has revealed that the quantum of fraud in the Nirav Modi case could be larger than what they expected it to be.  PNB fraud case: Nirav Modi offers payback plan	Yes
10.200	Nirav Modi gives 'Concrete Proposal' to Punjab National Bank (PNB) to settle dues.	
5/3/2018	PNB scam: Bank's business hit as clients await investigation reports  PNB's current and savings' account (CASA) deposits stood at Rs 2.67 lakh crore.	Yes
10/3/2018	PNB incurred losses of Rs 2,808 cr due to frauds in 2016-17: Govt  Enlisting the bank-wise details of cases of fraud reported by public sector banks (PSBs), involving an amount of Rs 1 lakh and above for 2016-17, Jaitley in a reply to the Lok Sabha said that Punjab National Bank encountered 158 such cases that caused loss of Rs 2,808.27 crore to the bank.	No
13/3/2018	PNB fraud quantum increases by Rs 942.18 crore to around Rs 13600 crore.  The Punjab National Bank (PNB) fraud could be even bigger than the already revised estimate of Rs 12700 crore. The CBI has told the special court hearing the matter that PNB has filed a supplementary complaint with some additional findings	Yes

15/3/2018	Another scam unearthed at PNB as CBI detects fresh fraud worth Rs 9 crore	Yes
	In a FIR filed with BS&FC, two LOUs were issued by	
	PNB employees Gokulnath Shetty and Hemant Kharat,	
	who were also named in the complaint filed against	
	Nirav Modi's companies, to Chandri Papers and Allied	
	Products worth Rs 9,000 crore.	
22/3/2018	PNB issued over 41k LOUs since 2011: Finance	No
	Minister	
	Fraudulent LOUs of the state-owned PNB were used by	
	diamantine Nirav Modi and his associates to defraud the	
	bank of about Rs 13,000 crore.	
_		
4/4/2018	PNB's FY18 domestic business turnover crosses Rs	No
	10 trillion despite Rs 13,400-crore fraud.	
<u></u>	State-owned Punjab National Bank (PNB) has reported a	
	7.9 per cent increase in its domestic business, crossing	
	Rs 10 trillion turnover for the first time ever in	
3	FY18, reported Business Standard.	
10/4/2018	Scam-hit PNB refused CVC's advice against its	Noutral
10/4/2018	corrupt staff	Neutral
	The latest CVC report refers to a case in which the PNB	
	sanctioned a Cash Credit (CC) limit of Rs 200 lakh and Term Loan (TL) of Rs 150 lakh to a firm for setting up a	
	manufacturing unit in Dehradun against mortgage of	
	property that was find unviable.	
6/5/2018	Big wilful defaulters owe PNB Rs 15,172 crore	Yes
	Die wilful defeultere erved De 15 171 01 growe in leans	
	Big wilful defaulters owed Rs 15,171.91 crore in loans to Punjab National Bank at the end of March this year.	
	The data from the bank relates to those wilful defaulters	
	who have taken loans of Rs 25 lakh and above but did	
	not repay despite the ability to do so.	

17/5/2018	PNB case: ED seizes Rs 85-cr worth jewellery of Choksi's firm brought from Dubai	Neutral
	It said the seizure of gold and silver jewellery was made on May 10 after the ED raided a strong-room belonging to Bharat Diamond Bourse.	
	"The ED seized over 34,000 pieces of jewellery worth Rs 85 crore under the PMLA of Mehul Choksi- controlled Gitanjali Group brought from Dubai,"	
28/5/2018	21 DSPs lost Ds 25 775 arove in book frouds in 2017	No
20/5/2010	21 PSBs lost Rs 25,775 crore in bank frauds in 2017-	140
	18: RTI	
	The Dunish National Penk (DND) had in august the	
	The Punjab National Bank (PNB) had incurred the	
	highest loss of Rs 6461.13 crore due to different cases of fraud during the fiscal that ended on March 31 this year,	
	Chandrasekhar Gaud, who had filed the RTI with the	
	Reserve Bank of India, told PTI.	
	Reserve Bunk of Hidia, told I II.	

For the above hypothesis we tested the impact of news on stock price of PNB bank where we found that the news which came during the period of 29/01/2018 to 18/05/2018 has the impact on the share very significantly. With every news in the market there is a downfall in the share price rapidly.

Therefore *Ho* is rejected that there is no significant effect of news on PNB bank share price.

#### To prove the second hypothesis of

**H0(B):** There is no effect of PNB scam on PSU banks index.

**H1(B):**There is a effect of PNB scam on PSU banks index.

For this we would be using the correlation test to see the effect of scam on the index.

**CORRELATION** = correlation (return of PNB: return of PSU index)

 $=(0.8215)^2$ 

= 0.6748\*100

=67.48%

There is a very strong and positive correlation between PNB return and PSU bank index it is 67.48% of change in Y variable(PSU index return) due to change in X variable (PNB return). Due to the scam there is a very adverse effect in the on PSU bank index which states that the scam of PNB did effect the other PSU

banks as well in the stock market.

Therefore *Ho* is rejected that there is no significant impact of scam of PNB to the PSU bank index.

### 6. FINDINGS

Through this research we deep understood about scam concepts and impact on stock price of Punjab national bank. In this research we use secondary data which was collected from money control and NSE website.

A scam in one sector also leads to the effect to other companies as well; majorly the company's which are engaged with that company. We found that the news which came during the period of 29<sup>th</sup> January 2018 to 18<sup>th</sup> May 2018 has the impact on the share very significantly. With every news in the market there is a downfall in the share price rapidly.

# 7. CONCLUSION

There is always a significant impact on the share price of PNB bank due to scam arise, as the shareholders are very much afraid of the loss of money which leads to reduction of share price i.e. sale of shares and loss of shareholders trust on the PNB bank.

If the one bank share price goes down due to scam leads to positive correlation to the PSU bank index. There is always a affect of scam on other banks in PSU as well as we found the reduction in PSU index which states that banks which are associate with PNB bank are also in impact to it.

We found the actual pattern of the share price effect by testing the cumulative abnormal return through T test.

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