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EMPIRICAL EVIDENCES OF MERGER, ACQUISITIONS AND ECONOMIC EFFEICIENCY IN INDIA- AN ANALYSIS ACROSS SECTORAL SELECTED INDUSTRIES

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ABSTRACT

Merger & Acquisitions (viz-corporate restructuring) plays a pivotal role in improvising financial, social and economic environment across the globe. Corporate restructuring is resorted to by numerous MNC's (multinational companies) all over the world due to globalization and cut throat competition in the market. Predominant strategic goals due to scarcity of time can be successfully accomplished with the aid of Merger and Acquisitions with a relatively secure and stable outcome. Significant sectors such as Banking, Finance, Pharmaceuticals, Manufacturing, Telecommunication and Information Technology Sectors etc have adopted merger and acquisitions (M&A) for business expansion and overcoming global challenges .So, it is very necessary to analyze that whether the firm opting for (M&A) have succeeded in improving financial performance and shareholder value. The current study aims analyzing whether there is significant and predominant trends and progress of merger and acquisitions on the Indian sectoral industries or not. The study is based on secondary data which was collected from capital market database called centre for monitoring Indian economy pvt ltd (Prowess, CMIE) various websites, journals and Capitaline database. The period under study is 7 years ranging from financial assessment year 2015-16 to 2021-22. Trend and Ratio Analysis has been used as a tool for computation of operating financial performance of the sample companies from the selected sample sectors under present study. The results of the overall analysis depicts that there is a significant trends and progress of MER AND ACQ on the Indian business.

KEYWORDS: Merger & Acquisitions (M&A), Economic Efficiency, Financial Performance, Trend Analysis, Ratio Analysis.

ISSN: 2249-7137 Vol. 14 Issue 12, December, 2024 SJIF 2022= 8.252 A peer reviewed journal

1. INTRODUCTION

The new-age business ecosystem (Paulus-Rohmer et al., 2016; Rong et al., 2018) is a complex and dynamic entity that fosters continuous innovation in a hyper-competitive world. Merger and Acquisitions (M and A) in India have evolved through a distinct phase of regulations.

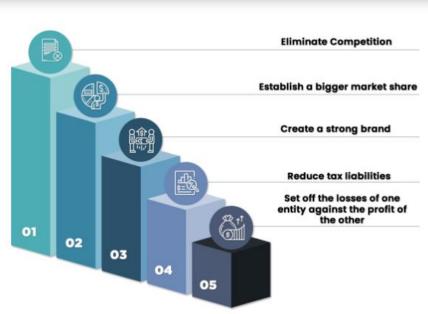
The main reason for the necessity of M And A in today's economy is that it permits business to accomplish financial prudence of scales unifying with or obtaining another company could end in savings of cost and working efficacies which will not be probable for either business alone. Recently, the M and A has increased vastly in India then several growing strategy forms can be simply understood through several economic fronts. Moreover, there are many purposes for various M and A types witnessed in the corporate world. This research is an effort taken to deliver eye view of the bird for the M and a concept from the regulatory and industry perspective and different types of motives after M and A.

2. Review of Related Literature

The review of literature is concerned with the comprehensive summary of previous research activities. Investigators have studied on various sectors of mergers and acquisitions (M&A). Investigators have studied on various sectors of Mergers and Acquisitions (M&A). For more than thirty years, acquisitions have been a subject of tremendous study potential for all practicing educators as well as managers. A detailed assessment of the literature has been conducted in the current study among which some reviews are outlined here in brief from the sample sectors in India.

- a. The purpose of this study was to find out how India's **Manufacturing Sector** firms' financial performance was affected by M&As. This study used a sample of 47 firms that merged between the year 2014 and 2015. These firms came under different manufacturing industries in India. BSE, financial statements of the firms and CMIE database were utilized for collecting data and tested with a non-parametric test called, Wilcoxon Signed Rank Test. The time period covered by this study was 2011-14 for before M&A process and 2015-18 for after M&A process. The paper's conclusion stated that it gave a perspective on the M&A process done in the manufacturing firms of India. (**Khatter & Yadav, 2022**)
- **b.** Similarly, the **M&A** strategies are followed in the **IT Companies** in India. In this perspective **Bhasin, Kar and Soni** (2022) offered the inferences of paradigm shift towards the merger and acquisitions strategies specifically in IT corporate in Indian context, using motive analysis from the year 2000 to 2015. In this Indian context, the research enunciated the patterns and trends of motives of (CBMA) of domestic M&A and cross-border M&A (CBMA), by Indian IT corporates and particularly seeks out in investigating the main CBMA motives. One such study, explored the empirical evidence, recommends the marked variations and corresponding dynamism in patters of motives for CBMA over the various sub-time periods.
- c. The focus of this study was to examine the influence of M&As on various industrial sectors of India namely, **Pharmaceuticals, Banking and Telecommunications**. The aim of this study also focused on the type of M&As', namely domestic or cross-border, influence on the acquiring companies' performance. This study's findings stated that the influence of M&A differed between domestic as well as cross-border M&As, as indicated by the financial performance of acquiring firms. (Sethi, 2021)

- d. The financial sector performance plays a significant role in economy development. But also the **Banking Industry's** performances in India over different time period were characterized by great regime of insolvency, crucial distress incidence, vulnerability towards macro-economic instability and systemic financial-crisis. By using, criterion of (CAMEL) Capital, Asset, Management, Earnings and Liquidity, researcher made utilise of secondary data, gained from accounts statements and annual reports of banks. The study to assess this objective, covered the time period of ten years from 2008 to 2018, research assessed bank's performance before merger and acquisition announcement and after this announcement as well through paired sample-test. The outcomes, deliberated that Merger and acquisition explored positive results, with significant impacts on private commercial bank's performance measures in comparison to public-banks (**R. Agarwal, Vichore, & Gupta, 2019**).
- e. Further in era of new Companies Act, one of important mergers consummated, is the merger in **Telecommunication Sector** (viz Vodafone India Ltd and Idea Cellular Ltd) that led to form the new Vodafone Idea Ltd entity. This research proceeded with an analysis on the share price and financial performance of merger companies to assess the effectiveness of merger announcement. The study reveals that this M&A did not provide any positive outcome regarding the financial performance and share price. The study also states that the probable reason for this kind of outcome was due to high competition and the short time span selected by the study. (**Chatterjee & Dandapat, 2020**)
- f. This paper focused on examining the influence of M&A on the Pharmaceutical Companies' financial performance, in India. This study made its foundation based on the fact that a firm's profitability is dependent on the firm's efforts for selling, imports and exports, and size; but not on the firm's product demand and market share. The results of this study stated that firms' profitability did not have any important influence. This was because of the resulting X-inefficiency and the emergence of new companies into the space of market. (Mishra & Chandra, 2010)



Significance of M&A in India (Corpbiz, 2023) (Fig 1)

ISSN: 2249-7137 Vol. 14 Issue 12, December, 2024 SJIF 2022= 8.252 A peer reviewed journal

3. Performance Measures and (M and A) In Indian Context

The pace of merger and acquisition phenomena in Indian context picked out in response towards different economic reforms, been introduced by Indian government after 1991, in pushing for globalization and economic liberalisation. The Indian-economy had undergone a primary transformation and unique structural change, preceding the economic reforms. In this business and liberalised economic environment, Competence and size had turned out as the focus of each Indian business enterprise, since the firms realised the necessity in growing and expanding business, such that they have better understanding to tackle the firm's competition. Mergers and Acquisition evolved as one of major efficient approaches of restructuring of corporate firms, and hence thereby to become the integral part of long-term business-strategy in Indian Corporates.

4. Why Need Multiple Sectoral Studies?

The present study would go to investigate the detail of mergers and acquisitions (M & A) with greater focus and aim in accordance with detailed sector like-Manufacturing, Information Technology, Banking And Finance, Telecommunications And Pharmaceutical Sectors and their respective pre and post acquisitions and mergers taking various sample companies from each sectors and analysing them with aid of various statistical tools and techniques and methodology for a period of 7 years.

5. Research Methodology

a. DATA COLLECTION

The study has intended to collect data specific to the selected **25 companies** those have gone through M&A in India. The data of last **7 years** have been accessed. The data related to **profitability ratio**, **liquidity ratio**, **leverage and activity ratio** have been collected. The study has planned to analyze the quantitative data in **IBM SPSS** and **Excel software**.. Based on the result, the study will provide further suggestions and recommendations for future enhancement. The data is collected from reliable and standard databases such as **Centre for Monitoring Indian Economy (CMIE) and Registrar of Companies (RoC)**. The company's balance sheets also are referred from Ministry of Corporate Affairs (MCA), Bombay Stock Exchange (BSE), And National Stock Exchange (NSE) and Company Annual Reports.

b. DATA METHODOLOGY

Ratio Analysis Technique calculates the economic strength of the organisation in terms of liquidity, operational efficacy, and profitability place. It is ended through the association of data available in the economic statements. It is an effectual method used for evaluation of economic performance of the various industries viz (Manufacturing, Telecommunication, Information Technology, Banking and Finance, Pharmaceuticals). Trend Analysis examination is a technique applied in practical analysis with intention to forecast future stock price movements based on currently attained trend data. This analysis utilizes historical data to test. Entirely, 9 ratios casing diverse sorts like liquidity, leverage, profitability and operational efficacy have been assessed for ascertainment of economic presentation.

c. RESEARCH QUESTION

Is there any significant trends and progress of MERGER AND ACQUISITIONS in the Indian business firms?

ISSN: 2249-7137 Vol. 14 Issue 12, December, 2024 SJIF 2022= 8.252

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d. COMPANY PROFILE PARAMETERS AND DEMOGRAPHIC DETAILS

(Table 1) Pre-Merger and Acquisition

| Descriptive Statistics | | | | | | |
|----------------------------------|---|---------|---------|---------|-----------|------------|
| | | | Minimum | Maximum | | |
| SAMPLECOMPANIES | N | R | (Min) | (Max) | M | SD |
| Indus Towers & Bharti Infratel | 8 | 3248 | 0 | 3248 | 455.33 | 1133.057 |
| Indiabulls Housing | | | | | | |
| Finance Limited | | | | | | |
| (IBHFL) And India | 8 | 10000 | 0 | 10000 | 1281.26 | 3523.038 |
| Bulls & Lakshmi Vilas | | | | | | |
| Bank Limited (LVB) | | | | | | |
| Bank Of Baroda & | | | | | | |
| Vijaya Bank And | 8 | 46168 | 0 | 46168 | 5839.04 | 16295.579 |
| Dena Bank | | | | | | |
| Indusind Bank & | | 1 1000 | | 4 4000 | | |
| Bharat Financial (SKS | 8 | 16000 | 0 | 16000 | 2214.65 | 5597.598 |
| Microfinance) | | | | | | |
| Nbfc Capital First & Idfc Bank | 8 | 5000 | 0 | 5000 | 711.63 | 1744.745 |
| Vodafone India & | | | | | | |
| Idea Cellular | 8 | 105870 | 0 | 105870 | 13249.92 | 37424.181 |
| TATA Steel | 8 | 77000 | 0 | 77000 | 9644.14 | 27215.898 |
| &ThyssenKrupp | O | 7 7000 | U . | 77000 | JUTT.17 | 41413.070 |
| State Bank Of India & | 8 | 22000 | 0 | 22000 | 2788.82 | 7763.170 |
| Bhartiya Mahila Bank | | | | | | |
| Flipkart & E-Bay | 8 | 30000 | 0 | 30000 | 3802.38 | 10585.968 |
| India | | | | - | | |
| Infosys & | 0 | 20297 | | 20297 | 2720.05 | 10229 244 |
| Kaleidoscope Innovation | 8 | 29287 | 0 | 29287 | 3729.95 | 10328.344 |
| Reliance Retail & | | | | | | |
| Future Group's Retail | 8 | 18000 | 0 | 18000 | 2329.73 | 6332.650 |
| Business | | 10000 | | 10000 | 2327.13 | 0332.030 |
| Ola & Etergo | 8 | 1500 | 0 | 1500 | 207.87 | 523.131 |
| Itc & Sunrise Foods | 8 | 36500 | 0 | 36500 | 4619.19 | 12882.061 |
| Zomato & Uber Eats | 8 | 40000 | 0 | 40000 | 5106.42 | 14100.250 |
| LIC & IDBI Bank | 6 | 109999 | 1 | 110000 | 18508.83 | 44822.903 |
| Walmart & Flipkart | 8 | 2300000 | 0 | 2300000 | 287517.74 | 813165.630 |
| Bharti Airtel & Tikona | 8 | 66000 | 0 | 66000 | 8301.71 | 23313.827 |
| Wipro Ltd& Info | 8 | 150000 | 0 | 150000 | 18796.27 | 53014.379 |
| Server S.A. | | | U | | | |
| Ebix &Yatra | 8 | 10430 | 1 | 10431 | 1329.07 | 3677.887 |

ISSN: 2249-7137 Vol. 14 Issue 12, December, 2024

SJIF 2022= 8.252

| A peer reviewed journal |
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| Havells India & Lloyd Electric's Consumer | Q | 5847 | 0 | 5847 | 812.80 | 2043.420 |
|--|---|--------|---|--------|----------|-----------|
| Durable Business | 0 | 3047 | U | 3647 | 012.00 | 2043.420 |
| Durable Business | | | | | | |
| Dr. Reddy | | | | | | |
| Laboratories Ltd & | 8 | 22175 | 0 | 22175 | 2776.02 | 7838.375 |
| Imperial Credit | O | 22173 | | 22173 | 2770.02 | 7030.373 |
| Private Ltd | | | | | | |
| Taro Pharma & | | | | | | |
| Canada's Thallion | 8 | 1407 | 0 | 1407 | 185.85 | 494.178 |
| Pharmaceuticals | | | | | | |
| Bandhan Bank & | 8 | 66000 | 0 | 66000 | 8291.93 | 23317.829 |
| Gruh Finance | O | 00000 | O | 00000 | 0271.73 | 23311.029 |
| Apple & Intel's | 8 | 132000 | 0 | 132000 | 16520.05 | 46660.963 |
| Smartphone Modem | O | 132000 | U | 132000 | 10320.03 | 40000.903 |
| Tata Steel & Bhushan | 8 | 77000 | 0 | 77000 | 9656.51 | 27210.905 |
| Steel | O | 77000 | U | 77000 | 7030.31 | 21210.903 |
| Valid N (Listwise) | 6 | | | | | |

(Source-Authors Compilation)

From the tables above, it is observed that there are 6 and 9 count of observations inside the data group for pre-merger and acquisition. The data set value, calculated through totalling all the records and isolating through the sum of figures are considered to be normal. The value of mean in the data set splits the greater values from the minor values. The value of standard deviation should be above 0.5 and all the variables of our study matched the exposed range.

(Table 2) Post-Merger and acquisition

| Descriptive Statistics | | | | | | | | | |
|--|---|-----|--------|----------|-----------|--|--|--|--|
| SAMPLE COMPANIES | N | Min | Max | M | SD | | | | |
| Indus Towers & Bharti Infratel | 9 | 0 | 3500 | 642.88 | 1260.997 | | | | |
| Indiabulls Housing Finance Limited (IBHFL) And Indiabulls & Lakshmi Vilas Bank Limited (LVB) | 9 | 0 | 26000 | 3019.16 | 8626.103 | | | | |
| Indusind Bank & Bharat Financial (SKS Microfinance) | 9 | 0 | 17000 | 2337.93 | 5568.620 | | | | |
| NBFC Capital First & Idfc Bank | 9 | 0 | 10000 | 1283.48 | 3281.439 | | | | |
| Vodafone India & Idea Cellular | 9 | 0 | 9226 | 1032.57 | 3072.615 | | | | |
| TATA Steel & ThyssenKrupp | 9 | 0 | 80500 | 9517.27 | 26667.757 | | | | |
| State Bank Of India & Bhartiya Mahila Bank | 9 | 0 | 245652 | 27859.53 | 81683.945 | | | | |

ISSN: 2249-7137 Vol. 14 Issue 12, December, 2024 SJIF 2022= 8.252 A peer reviewed journal

Flipkart & E-Bay India 0 22000 2472.08 7323.385 Infosys & Kaleidoscope 0 336294 38465.99 111717.451 Innovation **Reliance Retail & Future** 9 0 245581 28310.25 81504.023 **Group's Retail Business** 9 0 3000 999.292 Ola & Etergo 335.23 9 **ITC & Sunrise Foods** 0 49824 6261.93 16454.535 Zomato & Uber Eats 9 0 67900 7562.60 22626.581 9 95700 11344.35 LIC & IDBI Bank 0 31680.531 245571.20 Walmart& Flipkart 9 1 2200000 732918.233 9 Bharti Airtel & Tikona 0 67774 7827.45 22486.781 Wipro Ltd & Info Server 0 201000 22748.90 66849.883 S.A. Ebix & Yatra 0 11000 1247.57 3657.524 Havells India & Lloyd Electric's Consumer 9 0 6500 938.32 2141.475 **Durable Business** Dr. Reddy Laboratories Ltd & Imperial Credit 9 0 22739 3345.43 7552.126 **Private Ltd** Pharma Taro & Canada's **Thallion** 9 0 1550 368.37 654.873 **Pharmaceuticals** Bandhan Bank & Gruh 0 75000 8831.81 24851.207 Finance & Apple Intel's 0 137000 15245.85 45657.840 **Smartphone Modem** Tata Steel & Bhushan 0 80500 9511.15 26670.184 Steel

(Source-Authors Compilation)

Valid N (List Wise)

From the tables above, it is observed that there are 6 and 9 count of observations inside the data group for post-merger and acquisition. The data set value, calculated through totalling all the records and isolating through the sum of figures are considered to be normal. The value of mean in the data set splits the greater values from the minor values. The value of standard deviation should be above 0.5 and all the variables of our study matched the exposed range.

6. Analysis of Sample Data (Is there any significant trends and progress of MERGER AND ACQ UISITIONS in the Indian business firms?)

MER&ACQ is a significant module for the development of large corporations across the globe. This has increase in every sector due to increasing competition in the business atmosphere, free drive of capital in nations' globalization and liberalization of frugality. MER&ACQ accelerate an organization growth particularly in a phase where companies are slow because of inadequate resources. This widely helps in diversification of risk of a firm.

ISSN: 2249-7137 Vol. 14 Issue 12, December, 2024 SJIF 2022= 8.252 A peer reviewed journal

In past few years, the Indian business environments have seen a significant rise in MER&ACQ activities across different sectors. There are some key trends and progress in MER&ACQ in Indian business including strategic acquisition, in which Indian companies are increasingly involving to expand their market presence, gain a competitive edge and diversify their service and product in the market. Particular sectors such as e-commerce, renewable energy, healthcare and technology have seen a rise in MER&ACQ activities because of technology advancement, regulatory changes and customer preference. Private equity firm are significant MER&ACQ activities through offering capital for acquisition and support companies in growth strategies.

7. HYPOTHESIS

H1: There is significant trends and progress of MERGER AND ACQ UISITIONS in the Indian business firms?

H₀: There is no significant trends and progress of MERGER AND ACQ UISITIONS in the Indian business firms?

Trend Analysis

Trend examination is a technique applied in practical analysis with intention to forecast future stock price movements based on currently attained trend data. This analysis utilizes historical data to test.

General Linear Model

PRE-MER&ACQ

| Table 3 Within-Subjects Factors | | | | | | |
|---------------------------------|-----------------------------------|--|--|--|--|--|
| TIME | Dep Variable | | | | | |
| 1 | OPERATING PROFIT PRE | | | | | |
| 2 | CURRENT RATIO PRE | | | | | |
| 3 | ASSET TURNOVER RATIO PRE | | | | | |
| 4 | CASH EARNINGS RETENTION RATIO PRE | | | | | |
| 5 | NET PROFIT PRE | | | | | |

Source: Author's Own creation

| Table 4 Descriptive Statistics | | | | | | | | | |
|------------------------------------|-------|--------|----|--|--|--|--|--|--|
| | M | SD | N | | | | | | |
| OPERATING PROFIT(PRE) | 1.01 | 3.985 | 25 | | | | | | |
| CURRENT RATIO(PRE) | 1.14 | .894 | 25 | | | | | | |
| ASSET TURNOVER RATIO(PRE) | 30.51 | 42.133 | 25 | | | | | | |
| CASH EARNINGS RETENTION RATIO(PRE) | 55.50 | 42.586 | 25 | | | | | | |
| NET PROFIT(PRE) | 24.60 | 31.303 | 25 | | | | | | |

Source: Author's Own creation

ISSN: 2249-7137 Vol. 14 Issue 12, December, 2024 SJIF 2022= 8.252 A peer reviewed journal

| | Table 5 Multivariate Tests | | | | | | | | | | | |
|--------|----------------------------|-------|---------------------|---------|--------|------|---------|-----|--|--|--|--|
| | | | | | | | Partial | Eta | | | | |
| Effect | | Val | F | Hypo df | Err df | S. | Sq. | | | | | |
| | Pillai's Trace | .684 | 10.835 ^b | 4 | 20 | .000 | .684 | | | | | |
| | Wilks' Lambda | .316 | 10.835 ^b | 4 | 20 | .000 | .684 | | | | | |
| TIME | Hotelling's Trace | 2.167 | 10.835 ^b | 4 | 20 | .000 | .684 | | | | | |
| | Roy's Largest Root | 2.167 | 10.835 ^b | 4 | 20 | .000 | .684 | | | | | |

Source: Author's Own creation

If multivariate check is significant (p < 0.05), it specifies that there is a statistically substantial variance between groups for at least 1 of all the dependent variables. In the above table, all significant values are below the range of 0.05. Hence, the dependent variable proved the determination of specific variables driving the complete multivariate outcome.

| Table 6 Mauchly's Sphericity ^a Test | | | | | | | | | | |
|--|----------|----------------|--------------|----|------|------------------------|-----------------|------|--|--|
| Measure: MEASURE_1 | | | | | | | | | | |
| | | | | | | Epsilon ^b | | | | |
| Within Effect | Subjects | Mauchly's W | App. Chi-Sq. | df | S | Greenhouse- Geisser | Huynh- Feldt | LB | | |
| TIME | | .014 | 90.802 | 9 | .000 | .635 | .720 | .250 | | |

Source: Author's Own creation

Mauchly's Sphericity Test is stated as portion of the productivity when leading a recurrent measure in ANOVA. The assessment produces a p-value that designates whether the supposition of Sphericity has been disrupted. If the value of p related with Mauchly's Test is fewer than the selected level of alpha (< 0.05), then the supposition of Sphericity has been disrupted. If Sphericity is disrupted, changes like the Greenhouse-Geisser, Huynh-Feldt corrections could be used to precise the violation and confirm the results' validity. But for the present hypothesis p values are below 0.05 which represents that Sphericity is not violated and rate of yield is high.

ISSN: 2249-7137 Vol. 14 Issue 12, December, 2024

SJIF 2022= 8.252

| A peer | reviewed | journal |
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| | Table 7 Tests Within-Subjects Effects | | | | | | | | | | | |
|-------------|---------------------------------------|------------|--------|-----------|--------|------|--------------------|--|--|--|--|--|
| Source | | Type 3 Sos | df | M2 | F | S. | Partial Eta Sq. | | | | | |
| TIME | Sphericity Assumed | 49829.191 | 4 | 12457.298 | 15.273 | .000 | .399 | | | | | |
| | Greenhouse- Geisser | 49829.191 | 2.538 | 19630.560 | 15.273 | .000 | .399 | | | | | |
| | Huynh-Feldt | 49829.191 | 2.880 | 17304.506 | 15.273 | .000 | .399 | | | | | |
| | Lower-bound | 49829.191 | 1.000 | 49829.191 | 15.273 | .001 | .399 | | | | | |
| Error(TIME) | Sphericity Assumed | 75037.066 | 92 | 815.620 | | | | | | | | |
| | Greenhouse- Geisser | 75037.066 | 58.382 | 1285.277 | | | | | | | | |
| | Huynh-Feldt | 75037.066 | 66.230 | 1132.983 | | | | | | | | |
| | Lower-bound | 75037.066 | 23.000 | 3262.481 | | | | | | | | |

Source: Author's Own creation

| Table 8 Tests Within-Subjects Contrasts | | | | | | | | | | | |
|---|-----------|------------|----|-----------|--------|------|---------|-----|--|--|--|
| | | | | | | | Partial | Eta | | | |
| Source | TIME | Type 3 Sos | df | M2 | F | S. | Sq. | | | | |
| TIME | Linear | 24756.132 | 1 | 24756.132 | 38.287 | .000 | .625 | | | | |
| | Quadratic | 7568.592 | 1 | 7568.592 | 12.850 | .002 | .358 | | | | |
| | Cubic | 17394.754 | 1 | 17394.754 | 24.792 | .000 | .519 | | | | |
| | Order 4 | 109.713 | 1 | 109.713 | .083 | .006 | .004 | | | | |
| Error(TIME) | Linear | 14871.674 | 23 | 646.595 | | | | | | | |
| | Quadratic | 13546.703 | 23 | 588.987 | | | | | | | |
| | Cubic | 16137.299 | 23 | 701.622 | | | | | | | |
| | Order 4 | 30481.390 | 23 | 1325.278 | | | | | | | |

Source: Author's Own creation

| | Table 9 Tests of Between-Subjects Effects | | | | | | | | | |
|---|---|----|-----------|--------|------|------|--|--|--|--|
| Source Type 3 Sos df M2 F S. Partial Eta Sq | | | | | | | | | | |
| Intercept | 61032.852 | 1 | 61032.852 | 46.140 | .000 | .667 | | | | |
| Err | 30423.678 | 23 | 1322.769 | | | | | | | |

Source: Author's Own creation

ISSN: 2249-7137 Vol. 14 Issue 12, December, 2024 A peer reviewed journal SJIF 2022= 8.252

Estimated Means of Marginal

| | Table 10 Estimates | | | | | | | | |
|------|--------------------|----------|---------------------|-----------------|--|--|--|--|--|
| | | | 95% Confidence Inte | rval | | | | | |
| TIME | M | Std. Err | Lower Bound(LB) | Upper Bound(UB) | | | | | |
| 1 | 1.005 | .813 | 677 | 2.688 | | | | | |
| 2 | 1.137 | .183 | .760 | 1.515 | | | | | |
| 3 | 30.511 | 8.600 | 12.720 | 48.302 | | | | | |
| 4 | 55.504 | 8.693 | 37.521 | 73.486 | | | | | |
| 5 | 24.604 | 6.390 | 11.386 | 37.822 | | | | | |

Source: Author's Own creation

| | Table11 Pairwise Comparisons | | | | | | | | | |
|----------|------------------------------|--------------|----------|------|---|--------|--|--|--|--|
| | | | | • | 95% Confidence Interval for Difference ^s | | | | | |
| (I) TIME | (J) TIME | M Diff (I-J) | Std. Err | S.b | LB | UB | | | | |
| 1 | 2 | .132 | .877 | .000 | 2.853 | 2.589 | | | | |
| | 3 | 29.506 | 8.555 | .002 | 56.059 | 2.952 | | | | |
| | 4 | 54.498 | 8.943 | .000 | 82.257 | 26.740 | | | | |
| | 5 | 23.598 | 6.062 | .005 | 42.414 | 4.782 | | | | |
| 2 | 1 | .132 | .877 | .000 | 2.589 | 2.853 | | | | |
| | 3 | 29.374 | 8.598 | .002 | 56.063 | 2.685 | | | | |
| | 4 | 54.366 | 8.695 | .000 | 81.356 | 27.377 | | | | |
| | 5 | 23.466 | 6.377 | .002 | 43.260 | -3.672 | | | | |
| 3 | 1 | 29.506 | 8.555 | .002 | 2.952 | 56.059 | | | | |
| | 2 | 29.374 | 8.598 | .004 | 2.685 | 56.063 | | | | |
| | 4 | 24.992 | 11.718 | .003 | 61.364 | 11.379 | | | | |
| | 5 | 5.908 | 8.065 | .000 | 19.126 | 30.941 | | | | |
| 4 | 1 | 54.498 | 8.943 | .000 | 26.740 | 82.257 | | | | |
| | 2 | 54.366 | 8.695 | .000 | 27.377 | 81.356 | | | | |
| | 3 | 24.992 | 11.718 | .003 | 11.379 | 61.364 | | | | |
| | 5 | 30.900 | 9.821 | .004 | .414 | 61.386 | | | | |
| 5 | 1 | 23.598 | 6.062 | .000 | 4.782 | 42.414 | | | | |
| | 2 | 23.466 | 6.377 | .001 | 3.672 | 43.260 | | | | |
| | 3 | 5.908 | 8.065 | .000 | 30.941 | 19.126 | | | | |
| | 4 | 30.900 | 9.821 | .005 | 61.386 | .414 | | | | |

Source: Author's Own creation

| | Table 12 Multivariate Tests | | | | | | | | |
|---|-----------------------------|--------|---|----|------|------|--|--|--|
| Value F Hypo df Err df S. Partial Eta Sq. | | | | | | | | | |
| Pillai's trace | .684 | 10.835 | 4 | 20 | .000 | .684 | | | |
| Wilks' lambda | .316 | 10.835 | 4 | 20 | .000 | .684 | | | |
| Hotelling's trace | 2.167 | 10.835 | 4 | 20 | .000 | .684 | | | |
| Roy's largest root | 2.167 | 10.835 | 4 | 20 | .000 | .684 | | | |

ISSN: 2249-7137 Vol. 14 Issue 12, December, 2024 A peer reviewed journal SJIF 2022= 8.252

If multivariate check is important (p < 0.05), that specifies there is a statistically substantial difference among groups for at least 1 of all the dependent variables. In the above table, all significant values are below the range of 0.05. Hence, the dependent variable proved the determination of specific variables driving the complete multivariate outcome.

Profile Plots



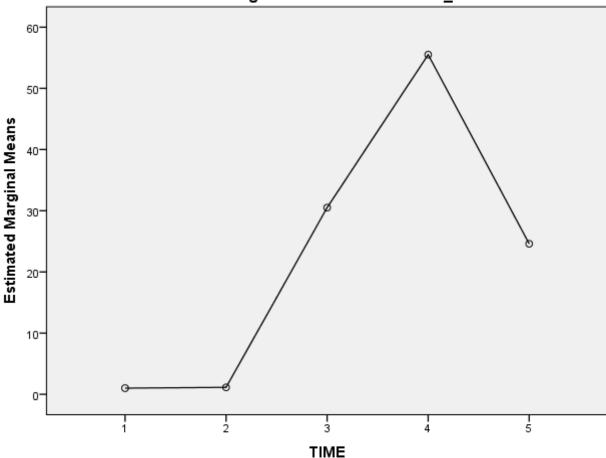


Figure 2 Profile Plots

The above tables and graph demonstrates the trend and progress of MER&ACQ in the Indian industries. The test tables reveal p value less than 0.005 which indicates the significance trends and progress of MER&ACQ in the business sector of India. Thus, the null hypothesis has been denied.

ISSN: 2249-7137 Vol. 14 Issue 12, December, 2024 A peer reviewed journal

SIIF 2022= 8.252

| POST | MER | & | ACQ |
|-------------|------------|---|------------|
|-------------|------------|---|------------|

| Table 13 Inside Subjects Factors | | | | | | | |
|----------------------------------|--------------------------------|--|--|--|--|--|--|
| TIME | Dep Variable | | | | | | |
| 1 | OPERATINGPROFITPOST | | | | | | |
| 2 | NETPROFITPOST | | | | | | |
| 3 | CURRENTRATIOPOST | | | | | | |
| 4 | ASSETTURNOVERRATIOPOST | | | | | | |
| 5 | CASHEARNINGSRETENTIONRATIOPOST | | | | | | |

| Table 14 Descriptive Statistics | | | | | | |
|-------------------------------------|--------|---------|----|--|--|--|
| | M | SD | N | | | |
| OPERATING PROFIT(POST) | 17.55% | 13.426% | 25 | | | |
| NET PROFIT(POST) | 43.30 | 66.715 | 25 | | | |
| CURRENT RATIO(POST) | 34.31 | 153.426 | 25 | | | |
| ASSET TURNOVER RATIO(POST) | .74 | .655 | 25 | | | |
| CASH EARNINGS RETENTION RATIO(POST) | 53.18 | 38.675 | 25 | | | |

Source: Author's Own creation

| | Table 15 Multivariate Tests ^a | | | | | | | | | |
|--------|--|-------|---------------------|------------|--------|------|-------------|--|--|--|
| | | | | Hypothesis | | | Partial Eta | | | |
| Effect | | Value | F | df | Err df | S. | Sq. | | | |
| TIME | Pillai's Trace | .814 | 23.021 ^b | 4 | 21 | .000 | .814 | | | |
| | Wilks' Lambda | .186 | 23.021 ^b | 4 | 21 | .000 | .814 | | | |
| | Hotelling's Trace | 4.385 | 23.021 ^b | 4 | 21 | .000 | .814 | | | |
| | Roy's Largest Root | 4.385 | 23.021 ^b | 4 | 21 | .000 | .814 | | | |

Source: Author's Own creation

If multivariate check is significant (p < 0.05), it specifies that there is a statistically substantial variance between groups for at least 1 of all the dependent variables. In the above table, all significant values are below the range of 0.05. Hence, the dependent variable proved the determination of specific variables driving the complete multivariate outcome.

| | Table16 Mauchly's Sphericity ^a Test | | | | | | | | |
|--------|--|--|--|--|--|--|--|--|--|
| | Epsilon ^b | | | | | | | | |
| Inside | Inside Subjects Mauchly's App. Chi- | | | | | | | | |
| Effect | Effect W Sq. df S. Geisser Feldt LB | | | | | | | | |
| TIME | | | | | | | | | |

Source: Author's Own creation

Mauchly's Sphericity Test is stated as portion of the productivity when leading a recurrent measure in ANOVA. The assessment produces a p-value that designates whether the supposition of Sphericity has been disrupted. If the value of p related with Mauchly's Test is fewer than the selected level of alpha (< 0.05), then the supposition of Sphericity has been disrupted. If Sphericity is disrupted, changes like the Greenhouse-Geisser, Huynh-Feldt corrections could be

ISSN: 2249-7137 Vol. 14 Issue 12, December, 2024 SJIF 2022= 8.252

A peer reviewed journal

used to precise the violation and confirm the results' validity. But for the present hypothesis p values are below 0.05 which represents that Sphericity is not violated and rate of yield is high.

| | Tabl | le 17 Tests W | ithin-Su | bjects Effect | S | | |
|-------------|------------------------|---------------|----------|---------------|-------|------|-------------------|
| Source | | Type 3 Sos | df | M2 | F | S. | Partial Eta Sq |
| TIME | Sphericity Assumed | 43591.982 | 4 | 10897.995 | 1.788 | .137 | .069 |
| | Greenhouse- Geisser | 43591.982 | 1.378 | 31628.491 | 1.788 | .190 | .069 |
| | Huynh-Feldt | 43591.982 | 1.435 | 30383.256 | 1.788 | .189 | .069 |
| | Lower-bound | 43591.982 | 1.000 | 43591.982 | 1.788 | .194 | .069 |
| Error(TIME) | Sphericity Assumed | 585066.363 | 96 | 6094.441 | | | |
| | Greenhouse- Geisser | 585066.363 | 33.078 | 17687.471 | | | |
| | Huynh-Feldt | 585066.363 | 34.434 | 16991.104 | | | |
| | Lower-bound | 585066.363 | 24.000 | 24377.765 | | | |

Source: Author's Own creation

| | Table 18 Tests Within-Subjects Contrasts | | | | | | | | | | |
|-------------|--|------------|----|-----------|--------|------|---------|-----|--|--|--|
| | | | | | | | Partial | Eta | | | |
| Source | TIME | Type 3 Sos | df | M2 | F | S. | Sq | | | | |
| TIME | Linear | 2057.377 | 1 | 2057.377 | 2.883 | .102 | .107 | | | | |
| | Quadratic | 1480.559 | 1 | 1480.559 | .190 | .667 | .008 | | | | |
| | Cubic | 36448.846 | 1 | 36448.846 | 15.147 | .001 | .387 | | | | |
| | Order 4 | 3605.199 | 1 | 3605.199 | .267 | .610 | .011 | | | | |
| Error(TIME) | Linear | 17124.513 | 24 | 713.521 | | | | | | | |
| | Quadratic | 186713.169 | 24 | 7779.715 | | | | | | | |
| | Cubic | 57751.111 | 24 | 2406.296 | | | | | | | |
| | Order 4 | 323477.570 | 24 | 13478.232 | | | | | | | |

Source: Author's Own creation

| | Table 19 Tests of Between-Subjects Effects | | | | | | | |
|-----------|---|---|------------|--------|------|------|--|--|
| Source | Source Type 3 Sos df M2 F S. Partial Eta Sq | | | | | | | |
| Intercept | 111121.370 | 1 | 111121.370 | 21.009 | .000 | .467 | | |
| Err | Err 126939.008 24 5289.125 | | | | | | | |

Source: Author's Own creation

ISSN: 2249-7137 Vol. 14 Issue 12, December, 2024 A peer reviewed journal SJIF 2022= 8.252

Estimated Means of Marginal

| | Table 20 Estimates | | | | | | | | |
|------|--------------------|------------|----------------|------------|--|--|--|--|--|
| | | | 95% Confidence | e Interval | | | | | |
| TIME | M | Std. Error | LB | UB | | | | | |
| 1 | 17.552 | 2.685 | 12.011 | 23.094 | | | | | |
| 2 | 43.298 | 13.343 | 15.759 | 70.837 | | | | | |
| 3 | 34.314 | 30.685 | -29.017 | 97.645 | | | | | |
| 4 | .737 | .131 | .467 | 1.008 | | | | | |
| 5 | 53.176 | 7.735 | 37.212 | 69.141 | | | | | |

Source: Author's Own creation

| Table 21 Pairwise Comparisons | | | | | | | | | | |
|-------------------------------|----------|--------------|------------|-------|---|---------|--|--|--|--|
| | | M Difference | | • | 95% Confidence Interval for Difference ^s | | | | | |
| (I) TIME | (J) TIME | (I-J) | Std. Error | S.b | LB | UB | | | | |
| 1 | 2 | -25.746 | 13.621 | .709 | -67.840 | 16.349 | | | | |
| | 3 | -16.762 | 30.745 | 1.000 | -111.780 | 78.257 | | | | |
| | 4 | 16.815* | 2.638 | .000 | 8.663 | 24.967 | | | | |
| | 5 | -35.624* | 8.462 | .003 | -61.775 | -9.473 | | | | |
| 2 | 1 | 25.746 | 13.621 | .709 | -16.349 | 67.840 | | | | |
| | 3 | 8.984 | 34.691 | 1.000 | -98.230 | 116.198 | | | | |
| | 4 | 42.561* | 13.341 | .039 | 1.330 | 83.791 | | | | |
| | 5 | -9.878 | 12.226 | 1.000 | -47.663 | 27.906 | | | | |
| 3 | 1 | 16.762 | 30.745 | 1.000 | -78.257 | 111.780 | | | | |
| | 2 | -8.984 | 34.691 | 1.000 | -116.198 | 98.230 | | | | |
| | 3 | 33.577 | 30.706 | 1.000 | -61.321 | 128.474 | | | | |
| | 4 | -18.862 | 33.645 | 1.000 | -122.843 | 85.119 | | | | |
| 4 | 1 | -16.815* | 2.638 | .000 | -24.967 | -8.663 | | | | |
| | 2 | -42.561* | 13.341 | .039 | -83.791 | -1.330 | | | | |
| | 3 | -33.577 | 30.706 | 1.000 | -128.474 | 61.321 | | | | |
| | 4 | -52.439* | 7.772 | .000 | -76.458 | -28.420 | | | | |
| 5 | 1 | 35.624* | 8.462 | .003 | 9.473 | 61.775 | | | | |
| | 2 | 9.878 | 12.226 | 1.000 | -27.906 | 47.663 | | | | |
| | 3 | 18.862 | 33.645 | 1.000 | -85.119 | 122.843 | | | | |
| | 4 | 52.439* | 7.772 | .000 | 28.420 | 76.458 | | | | |

Source: Author's own creation

| Table 22 Multivariate Tests | | | | | | | | | | | | |
|-----------------------------|-------|---------------------|---------------|----------|------|---------|-----|--|--|--|--|--|
| | | Tubic 22 | | CSCS | | Partial | Eta | | | | | |
| | Value | F | Hypothesis df | Error df | S. | Squared | Lu | | | | | |
| Pillai's trace | .814 | 23.021 ^a | 4 | 21 | .000 | .814 | | | | | | |
| Wilks' lambda | .186 | 23.021 ^a | 4 | 21 | .000 | .814 | | | | | | |
| Hotelling's trace | 4.385 | 23.021 ^a | 4 | 21 | .000 | .814 | | | | | | |
| Roy's largest root | 4.385 | 23.021 ^a | 4 | 21 | .000 | .814 | | | | | | |

Source: Author's own creation

ISSN: 2249-7137 Vol. 14 Issue 12, December, 2024

SJIF 2022= 8.252

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If multivariate check is significant (p < 0.05), it specifies that there is a statistically substantial difference among groups for at least 1 of all the dependent variables. In the above table, all significant values are below the range of 0.05. Hence, the dependent variable proved the determination of specific variables driving the complete multivariate outcome.

Profile Plots

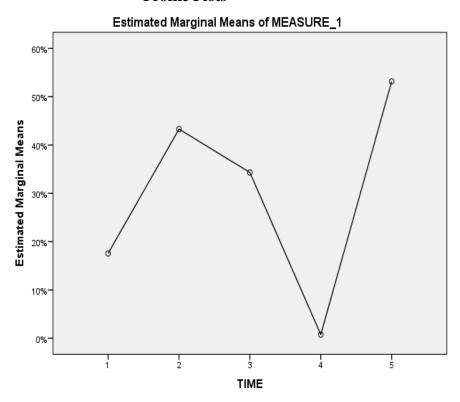


FIGURE 3

The above tables and graph demonstrates the trend and progress of MER&ACQ in the Indian industries. The test tables reveal p value less than 0.005 which indicates the significance trends and progress of MER&ACQ in the business sector of India. Thus, the null hypothesis has been denied.

8. IMPLICATIONS OF STUDY

The implication of the research could be based on the Mergers and Acquisitions (MER&ACQ) which is been influenced from operational performance and financial from the different sectors of selected industries in India. Economic performance ratios are categorized by the ratios which comprises Operating Profit ratio, Inventory turnover ratio, Current ratio, Asset turnover ratio, Cash earnings retention ratio, Net Profit ratio, Firm size ratio, Stock price ratio and Current tax ratio. Values which are utilized to perform the ratios are Mean, Range, Standard Deviation and Constant of the variation. Mean, Range, Standard Deviation and Coefficient of the variation is divided into pre-acquisition and post-acquisition.

Reliability was performed to analyze the assessment of the internal consistency. $C\alpha$ value determines the reliability statistics. It was performed with the value of 0.827.

ISSN: 2249-7137 Vol. 14 Issue 12, December, 2024 SJIF 2022= 8.252 A peer reviewed journal

Company profile parameters and their demographic details are collected. Descriptive statistics method has been measured to denote the distributions, variability and the central tendency. For the descriptive statistics, totally 25 companies were measured with mean, median, minimum, maximum and standard deviation values for pre-merger and acquisition. The outcome of the result was that the 6th and 9th count of the observations which are present inside the data are grouped for the pre-merger and acquisition. Data set value which was calculated through adding up all the records and isolated by means of the sum of figures which is considered as the normal. As for the same companies, post-merger and acquisitions were carried out for the descriptive statistics. The result presented with the output that the 6th and 9th count of the observations which are present inside the data group was measured for the post-merger and acquisition.

9. DISCUSSION ON RESULTS

Hypothesis describes whether the Indian industries are with significant trends and progress of M and A are not. For the general linear model of pre M and A, different subject factors were analyzed namely operating profit, current ratio, asset turnover ratio, cash earnings retention ratio and net profit. Descriptive analysis was carried out with the factors of pre M and A such as operating profit, current ratio, asset turnover ratio, cash earnings retention ratio for mean, number of samples and standard deviation.

Multivariate tests were analyzed with the effects of Pillai's trace, Wilks Lambda, Hotelling's Trace and Roy's Largest Root. The significant values for these effects were less than 0.05. The dependent variable proved that the determination for specific variables drives with the complete multivariate outcome. Mauchly's Sphericity test was carried out to state the leading recurrent measures in ANOVA. It resulted that P-value which were below 0.05 represented that Sphericity was not violated and the rate of the yield was high. Tests within subject effects were examined for TIME and error. The sources for which it was calculated like sphericity assumed greenhouse-geisser, huynh-feldt and lower bound. Tests within the subject contrasts were calculated for various times such as linear, quadratic, cubic and order 4. Tests between the subject effects were calculated for the intercept and error.

Estimated Means of Marginal was calculated for five different interval times with 95% confidence interval. Pairwise comparisons were evaluated with five different times of 95% confidence interval. Multivariate tests were investigated for various tests such as Pillai's trace, Wilks lambda, hotel ling trace and Roy's largest root. All the significant values were presented below the range of 0.05. The dependent variable proved the determination of the specific variables which drives the complete multivariate outcome. Profile plots were revealed with the p-value that could be lower than 0.005 and the null hypotheses has been denied.

Inside the subject factors, post M and A were determined by operating profit, net profit, current ratio, asset turnover ratio and cash earnings retention ratio. **Descriptive statistics** was carried out for these factors with average, standard deviation and samples count. Multivariate tests were performed with the effects of Pillai's trace, Wilks lambda, hotelling trace and Roy's main root. It resulted that the significant values were below 0.05. P-values of the Mauchly's test were carried out with fewer levels of selected alpha. P- Value represents the sphericity was not violated and the rate of the yield was high. Tests within the subject effects were calculated by the source such as sphericity assumed, greenhouse-geisser, huynh-feldt and lower bound. Tests inside the subjects contrast for various times such as linear, quadratic, and cubic, order 4. Tests of the between the subjects belongings were analyzed for the intercept and for the error. Estimated

ISSN: 2249-7137 Vol. 14 Issue 12, December, 2024 SJIF 2022= 8.252 A peer reviewed journal

means of marginal were analyzed with five different intervals of 95 percent confidence interval. Pairwise comparisons were carried out for five different time intervals with 95 percent confidence intermission for the variations. Multivariate tests were performed for Pillai's trace, Wilks lambda, hotelling trace and Roy's greatest root and the significant values were determined below 0.05. The dependent variable proved the determination of the specific variables in which it drives the complete multivariate outcome. Profile plots were demonstrated with the p-value which was less than 0.005 and indicates the progress and significance trends of M and A. This null hypothesis was denied.

10. LACUNAS/BOTTLENECKS OF THE PRESENT STUDY

The present research, like any other study, has its own limitations. In First hand, one of the main drawbacks is that it solely relies on quantitative methods and does not incorporate a qualitative approach for its analysis. Secondly, the study has considered only limited sample size and secondary data pertaining to only last 7 years .Last But Not The Least only Indian companies were considered in the present study, the researcher has not taken into account any outbound companies or literature for the study. As a result, the findings may lack generalizability. However, despite this limitation, the research offers valuable insights into identifying mergers, acquisitions, and economic efficiency in India.

10. SCOPE FOR FURTHER RESEARCH

Future research in acquisitions, mergers and in economic efficiency in India is a great benefit obtained which is supplemented by the empirical evidence from the sectoral analysis. Investigating activities of **Mergers and Acquisitions** (**M&A**), various industries are compressed within the economy of India. It is not only limited for the finance, healthcare, technology, telecommunication and manufacturing. From organizing empirical studies and in-depth studies in each sector, transactions of the acquisitions and mergers can reveal the effects on the trends and progress, economic efficiency, innovation, market welfare and competition in market.

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