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Mergers and its Effects in Select Indian Iron and Steel Companies - A Study

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ABSTRACT

As an important sphere of corporate strategy, Mergers and Acquisitions have been undergoing a sea change within the economic set -up since liberalization in India. Massive growth in both Foreign Direct Investment and Foreign Institutional Investors has been witnessed by the economy. Rather than Greenfield Investment, a substantial fraction of the growth in FDI during the late 1990s tends to rapid increase of cross-border deals in form of Mergers and Acquisitions. This study has attempted to identify the performance of some selected Indian Iron and Steel Companies as a regime study through applying techniques like Economic Value Added and Operating Profit.

Keywords: acquisitions, economic value added, iron and steel, operating profit

I. INTRODUCTION

After the Liberalization, Mergers and Acquisitions have acquired a new dimension in the Indian Economy. The implementation of economic reforms in many countries created various kinds of opportunities by way of mergers and acquisitions in the international scenario. Various firms in India have taken up the restructuring activities to sell off non-core businesses and concentrating on achieving core-competencies. In India, Mergers and Acquisitions have emerged to be the utmost effectual way of corporate restructuring and also become an integral part of the long-standing business stratagem of firms. Basant (2000) opined that Economic Liberalization of 1990s and associated opening up of the Indian Economy changed the nature of oligopolistic environment in the form of Mergers and Acquisitions for restructuring of corporate assets. Synergy is the key factor influencing mergers, where the value of the combined firm is significantly more as compared to the aggregate value of the individual firms. As a result, if they are to stay independent, the combination of two firms will yield a more valuable entity than the summation of values of the two firms - Value (A + B) > Value (A) + Value (B)

In Indian context, it has been observed that during the first period of liberalisation, more than 50% of Mergers and 74% of Acquisitions were horizontal due to market share enhancement and consolidation of existing product market. About 16% of mergers and 41% of acquisitions were vertical and the rest were all conglomerate in nature.

II. SURVEY OF THE LITERATURE

Vyas, Narayanan and Ramanathan (2012) analyse in their research paper that Mergers and Acquisitions in pharmaceutical industry and its elements in the context of a developing country. Their findings suggests that small firm are unable to expand due to limited availability of resources, at the same time larger firms have resources to invest on multiple capacity expansion as well as technological expansion. The results show that research and development expenditure for the industry as a whole is just 2.6% and minimum is zero. Therefore, to survive in the competitive scenario, pharmaceutical firms required high amount of investment to continue production by way of continuous upgradation of technology and capital assets. As per Gupta and Mishra (2013) Mergers and Acquisitions can generate synergies and economies of scale by way of magnifying processes and reducing overheads and the investors makes it clear that the above idea can provide augmented market power. However, Mergers and Acquisitions have to be augmented with the regulatory compliance in the country where it takes place. Rani, Yadav and Jain (2013) in their study compares about the performance of the firm involved in their study, before and after Mergers and Acquisitions. The study indicates that Mergers and Acquisitions apparently are beneficial for the buying firms in the long-run with regard to their operating performance. The findings indicate that profitability of buying firms have improved in the post event era. Singh (2013) tries to capture the performance of 20 Public Limited Companies listed on the Stock Exchange through the comparison of financial ratios. Change in the financial leverage of the companies is one of the parameters which was considered in the study. In his study, it shows that, there was a significant increase in the mean operating profit margin, net profit margin ratios, return on net worth and return on capital employed after the merger. Bhalla (2014) focussed on recent trends of Mergers and

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Acquisitions in various Indian sectors. In this scenario, the role played by deregulation, technology and globalization in determining Mergers and Acquisitions activity have been highly appreciated. As per the report, tt was found that India has been lagging behind other developed economies in terms of both number and valuation. The sectors such as paper products, printing, publishing, media and entertainment, food products, textiles and non-metallic mineral products, metals, machinery, automobiles and miscellaneous manufacturing have shown relatively less involvement in Mergers and Acquisitions activity.

III. OBJECTIVES OF THE STUDY

In this study, an effort has been made to comprehend the performance of some selected Indian Iron and Steel Companies in the pre-merger and post-merger scenario with respect to corporate performance parameters like Economic Value Added and Operating Profit.

IV. RESEARCH METHODOLOGY

The present paper is established on secondary sources and is essentially empirical in nature. The companies considered are from the Iron and Steel sector. The sample size is 6. Only those companies which had mergers during the year 2006-07 to 2010-11 were considered. The time frame used for the comparison of both the parameters is from 2002 to 2016 for which the charts have been constructed. The research work is based on secondary data collected from database of Capitaline, Published Books, Repute Journals and Research Papers etc.

Table 1: Merger of Iron and Steel

| | | | viciger of from and steer | | | |
|---------|---------------------|------------|-------------------------------------|--|--|--|
| Sl. No. | Company Name | Date | Acquirer | Target | | |
| 1 | JSW Steel | 25/10/2007 | JSW Steel Ltd | Southern Iron & Steel Company Ltd (merged) | | |
| 2 | Southern Ispat | 26/05/2009 | Southern Ispat & Energy Ltd | Kerala Sponge Iron Ltd | | |
| 3 | Tata Steel | 29/07/2009 | Tata Steel Ltd | Hooghly Met Coke & Power Ltd | | |
| 4 | SAIL | 16/09/2010 | Steel Authority of India Ltd | Maharashtra Elektrosmelt Ltd | | |
| 5 | Indian Metals | 22/01/2010 | Indian Metals & Ferro Alloys Ltd | B Panda and Company Pvt Ltd | | |
| 6 | Mount Ever. Trd. | 16/03/2010 | Monnet Ispat & Energy Ltd | Mount Everest Trading & Investment Ltd (merged) | | |

Following are the sets of equations for ascertaining the Economic Value Added:

Return on Equity = Equity Earnings / Average Equity =

Profit after Tax / (Equity + Reserves)

... (i)

Growth Rate = 1x Pay-out Ratio x Return on Equity

... (ii)

Cost of Equity = Dividend in the next period / (Current Market Price + Growth Rate)

... (iii)

Economic Value Added (EVA) = Profit after Tax - (Cost of Equity x Equity Capital)

... (iv)

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Table 2: Economic Value Added - JSW Steel

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| | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 |
|--------------------------------|----------------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|-----------------|
| Reported Net Profit | -3498.28 | 2166.48 | 1334.51 | 1801.22 | 1625.86 | 2010.67 | 2022.74 | 458.5 | 1728.19 | 1292 |
| Equity Paid Up | 302.75 | 302.75 | 302.75 | 284.15 | 284.15 | 284.15 | 248.08 | 248.08 | 248.08 | 225.01 |
| Reserves Total | 20685.77 | 24657.41 | 23216.9 9 | 19374.1 9 | 17934.3 1 | 16132.71 | 9179.23 | 7422.24 | 7140.24 | 5068.25 |
| Payout (%) | -5 | 13 | 23 | 13 | 11 | 14 | 9 | 4 | 16 | 17 |
| Dividend Per Share Adj.(Rs) | 7.5 | 11 | 11 | 10 | 7.5 | 12.25 | 9.5 | 1 | 14 | 0 |
| Year End Price (BSE) | 1280.55 | 907.65 | 1035.55 | 670.7 | 721.6 | 916.3 | 1235.9 | 231.85 | 819.1 | 493.45 |
| ROE | - 0.1666758 78 | 0.086797 521 | 0.05673 9998 | 0.09162 6251 | 0.08924 245 | 0.122475 92 | 0.214561 736 | 0.05977 5863 | 0.23390 8385 | 0.24408 3986 |
| Growth Rate | 0.0083337 94 | 0.011283 678 | 0.01305 02 | 0.01191 1413 | 0.00981 6669 | 0.017146 63 | 0.019310 556 | 0.00239 1035 | 0.03742 5342 | 0.04149 4278 |
| Cost of Equity | 0.0058568 2 | 0.012119 058 | 0.01062 2241 | 0.01490 9531 | 0.01039 3428 | 0.013368 73 | 0.007686 586 | 0.00431 3089 | 0.01709 1149 | 0 |
| EVA | - 3500.0531 52 | 2162.810 955 | 1331.29 4117 | 1796.98 3457 | 1622.90 6707 | 2006.871 27 | 2020.833 112 | 457.430 0089 | 1723.95 0028 | 1292 |
| | | | Soui | rce: Autho | r's Calcula | ıtion | | | | |

V. ANALYSIS AND FINDINGS

Figure 1: Comparison of Operating Income and Economic Value Added for JSW Steel for 10 years

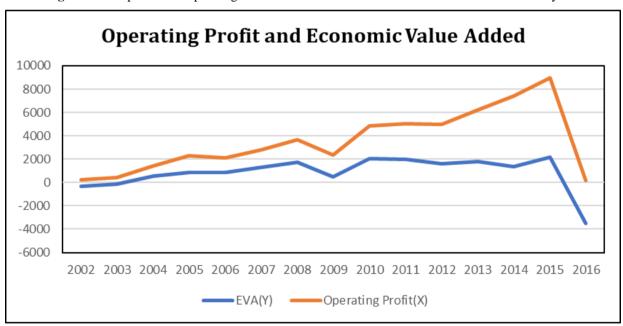


Figure 1 show the trend of Economic Value Added (EVA) and Operating profit for JSW Steel and it is clear that there was a huge fall in the operating profits which also resulted in a fall for the EVA. The year of the merger has not resulted any drastic fall for the profits for the company. There is a significant drop in 2015 in both which continues in 2016 also.

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Table 3: Economic Value Added - Southern Ispat

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| | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 |
|--------------------------------------|----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Reported Net Profit | 0.36 | 0.13 | 0.71 | 0.53 | 11.25 | 8.23 | 0.74 | 0.02 | 0.01 |
| Equity Paid Up | 132.15 | 132.15 | 132.15 | 132.15 | 132.1 5 | 11.03 | 11.03 | 5.87 | 5.87 |
| Reserves Total | 77.92 | 70.2 | 69.63 | 57.26 | 41.19 | 11.71 | 3.47 | 2.6 | 2.58 |
| Payout (%) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dividend Per Share Adj.(Rs) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Year End Price (BSE) | 0.13 | 0.15 | 0.4 | 0.34 | 0.81 | 1.69 | 8.0 | 2.36 | 0.9 |
| ROE | 0.001714 | 0.00064 2 | 0.0035 19 | 0.0027 98 | 0.064 901 | 0.361 917 | 0.051 034 | 0.00236 1 | 0.0011 83 |
| growth rate | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| cost of equity | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| EVA= PAT- (cost of equity * equity) | 0.36 | 0.13 | 0.71 | 0.53 | 11.25 | 8.23 | 0.74 | 0.02 | 0.01 |

Figure 2: Comparison of Operating Income and Economic Value Added for Southern Ispat for 15 years

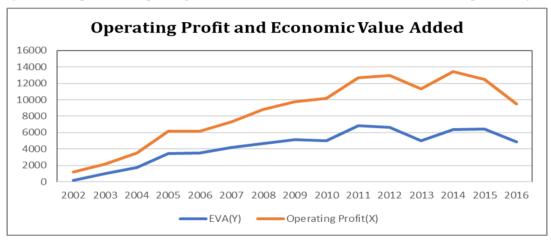


Figure 2 of Southern Ispat shows a different trend since in the year of the merger which is 2009, both the Economic Value Added (EVA) and the Operating profit have increased and then reached a high in 2012, after which the profits have again normalized to the previous year levels.

Table 4: Economic Value Added (Iron and Steel sector) - TATA STEEL

| | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 |
|--------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Reported Net Profit | 4900.9 5 | 6439.1 2 | 6412.1 9 | 5062.9 7 | 6696.4 2 | 6865.6 9 | 5046.8 | 5201.7 4 | 4687.0 3 | 4222.1 5 |
| Equity Paid Up | 971.41 | 971.41 | 971.41 | 971.41 | 971.41 | 959.41 | 887.41 | 730.79 | 730.78 | 580.67 |
| Reserves Total | 69505. 31 | 65692. 48 | 60176. 58 | 54238. 27 | 51245. 05 | 45807. 02 | 36074. 39 | 23972. 81 | 21097. 43 | 13368. 42 |
| Payout (%) | 16 | 12 | 26 | 16 | 18 | 17 | 15 | 24 | 26 | 23 |
| Dividend Per Share Adj.(Rs) | 8 | 8 | 10 | 8 | 12 | 12 | 8 | 16 | 16 | 13.7 |
| Year End Price (BSE) | 319.5 | 316.85 | 393.85 | 312.3 | 470.4 | 620.5 | 632.65 | 206 | 693.15 | 397.36 |
| ROE | 0.0695 39984 | 0.0965 90823 | 0.1048 63463 | 0.0917 0439 | 0.1282 4347 | 0.1468 08084 | 0.1365 40969 | 0.2105 66071 | 0.2147 23516 | 0.3026 82827 |
| growth rate | 0.0111 26397 | 0.0115 90899 | 0.0272 645 | 0.0146 72702 | 0.0230 83825 | 0.0249 57374 | 0.0204 81145 | 0.0505 35857 | 0.0558 28114 | 0.0696 1705 |
| cost of equity | 0.0250 38252 | 0.0252 47617 | 0.0253 8862 | 0.0256 15191 | 0.0255 08952 | 0.0193 38465 | 0.0126 44813 | 0.0776 50854 | 0.0230 81168 | 0.0344 71512 |
| EVA= PAT- (cost of equity * equity) | 4876.6 27592 | 6414.5 94213 | 6387.5 27241 | 5038.0 87147 | 6671.6 40349 | 6847.1 36484 | 5035.5 78866 | 5144.9 93533 | 4670.1 62744 | 4202.1 33427 |

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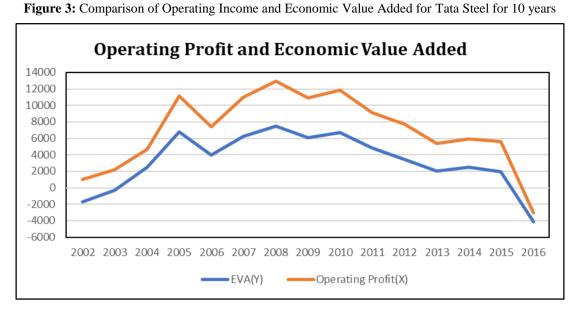


Figure 3 depicting the Economic Value Added (EVA) and the Operating profit of Tata Steel has a steady trend over the 15-year timeline. The merger year of 2009 witnesses a steady move on the positive and continues the upper trend.

Table 5: Economic Value Added - Steel Authority of India

| | 2016 | 2015 | 2014 | 2012 | 2012 | 2011 | 2010 | 2009 | 2000 | 2007 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 |
| Reported Net | - | 2092.6 | 2616.4 | 2170.3 | 3542.7 | 4904.7 | 6754.3 | 6170.4 | 7536.7 | 6202.2 |
| Profit | 4137.2 | 8 | 8 | 5 | 2 | 4 | 7 | | 8 | 9 |
| | 6 | | | | | | | | | |
| Equity Paid Up | 4130.5 | 4130.5 | 4130.5 | 4130.5 | 4130.5 | 4130.4 | 4130.4 | 4130.4 | 4130.4 | 4130.4 |
| | 3 | 3 | 3 | 3 | 3 | | | | | |
| Reserves Total | 35150. | 39374. | 38535. | 36894. | 35680. | 32939. | 29186. | 24017. | 18933. | 13182. |
| | 73 | 25 | 82 | 11 | 79 | 07 | 3 | 82 | 17 | 75 |
| ROE | - | 0.0481 | 0.0613 | 0.0529 | 0.0889 | 0.1323 | 0.2027 | 0.2192 | 0.3267 | 0.3582 |
| | 0.1053 | 023 | 24205 | 03572 | 87755 | 12116 | 32263 | 11019 | 82887 | 41568 |
| | 24015 | | | | | | | | | |
| ROE % | - | 4.8102 | 6.1324 | 5.2903 | 8.8987 | 13.231 | 20.273 | 21.921 | 32.678 | 35.824 |
| | 10.532 | 30048 | 20514 | 5721 | 75524 | 21156 | 22634 | 10194 | 28875 | 15678 |
| | 40146 | | | | | | | | | |
| payout ratio | 0 | 43 | 34 | 41 | 24 | 21 | 21 | 18 | 21 | 21 |
| growth rate | 0 | 0.0206 | 0.0208 | 0.0216 | 0.0213 | 0.0277 | 0.0425 | 0.0394 | 0.0686 | 0.0752 |
| | | 83989 | 5023 | 90465 | 57061 | 85544 | 73775 | 57983 | 24406 | 30729 |
| Dividend Per | 0 | 2 | 2.02 | 2 | 2 | 2.4 | 3.3 | 2.6 | 3.7 | 0 |
| Share Adj.(Rs) | | | | | | | | | | |
| Year End Price | 43 | 68.35 | 71.4 | 62.35 | 94.05 | 169.75 | 251.8 | 96.45 | 184.75 | 114.1 |
| (BSE) | | | | | | | | | | |
| cost of equity | 0 | 0.0292 | 0.0282 | 0.0320 | 0.0212 | 0.0141 | 0.0131 | 0.0269 | 0.0200 | 0 |
| | | 52304 | 83057 | 6583 | 60457 | 36125 | 03424 | 45949 | 19627 | |
| EVA=pat-cost of | - | 1971.8 | 2499.6 | 2037.9 | 3454.9 | 4846.3 | 6700.2 | 6059.1 | 7454.0 | 6202.2 |
| equity *equity | 4137.2 | 52483 | 55983 | 01129 | 03046 | 52149 | 47618 | 02453 | 90931 | 9 |
| | 6 | | | | | | | | | |

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Figure 4: Comparison of Operating Income and Economic Value Added for Steel Authority of India Limited for 10 years

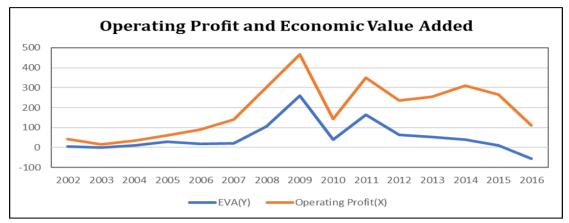
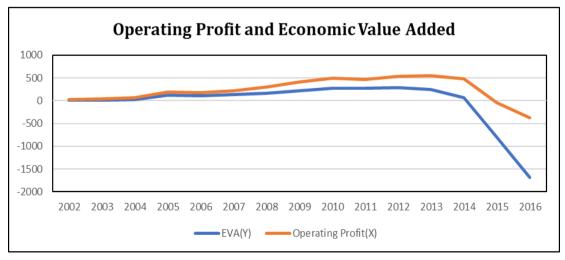


Figure 4 of Steel Authority of India Limited the merger year, which is 2010, witnesses a shift in the performance of both the Economic Value Added (EVA) and the Operating profit resulting in the decline and a continues fall of each of the factors. There is no revival of the factors and they continue to dip throughout the study timeline of 15 years.

Table 6: Economic Value Added - Indian Metal and Ferro Alloys

| | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 |
|--------------------------------|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Reported Net Profit | -54.76 | 11.98 | 39.12 | 53.89 | 63.93 | 165.44 | 41.01 | 260.64 | 104.8 | 19.99 |
| Equity Paid Up | 25.98 | 25.98 | 25.98 | 25.98 | 25.98 | 26.33 | 26.34 | 21.33 | 21.33 | 21.33 |
| Reserves Total | 782.33 | 836.91 | 829.62 | 799.62 | 760.93 | 715.09 | 580.29 | 437 | 201.29 | 116.45 |
| Payout (%) | 0 | 35 | 21 | 25 | 21 | 16 | 34 | 8 | 17 | 28 |
| Dividend Per Share Adj.(Rs) | 0 | 1.5 | 3 | 5 | 5 | 10 | 5 | 10 | 0 | 0 |
| Year End Price (BSE) | 110.8 | 153.1 | 255.25 | 228.6 | 315.4 | 586.1 | 739.05 | 157.2 | 37.5 | 37.5 |
| ROE | - 0.06774 6285 | 0.0138 83577 | 0.0457 223 | 0.0652 7374 | 0.0812 41819 | 0.2231 39381 | 0.0676 02987 | 0.5686 73227 | 0.4707 57344 | 0.1450 8637 |
| growth rate | 0 | 0.0048 59252 | 0.0096 01683 | 0.0163 18435 | 0.0170 60782 | 0.0357 02301 | 0.0229 85016 | 0.0454 93858 | 0.0800 28749 | 0.0406 24183 |
| cost of equity | 0 | 0.0097 97207 | 0.0117 52741 | 0.0218 70705 | 0.0158 52028 | 0.0170 60896 | 0.0067 65232 | 0.0635 94827 | 0 | 0 |
| EVA | -54.76 | 11.725 46856 | 38.814 66379 | 53.321 79909 | 63.518 16432 | 164.99 07866 | 40.831 8038 | 259.28 35223 | 104.8 | 19.99 |

Figure 5: Comparison of Operating Income and Economic Value Added for Indian Metal for 10 years



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Figure 5 of Indian Metal shows a high performance in the immediate pre-merger years of 2008 and 2009, while the merger year of 2010 shows a sudden fall of both the Economic Value Added (EVA) and the Operating profit. There is a recovery trend which again is not consistent and results in a greater fall in the performance in 2015 and 2016.

| | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 |
|--------------------------------|------------------|--------------------|---------------------|---------------------|---------------------|---------------------|-----------------|---------------------|-----------------|-----------------|
| Reported Net Profit | 1683.2 3 | - 795.8 7 | 66.63 | 250.3 2 | 288.8 6 | 281.1 6 | 269.1 | 216 | 166.16 | 134.78 |
| Equity Paid Up | 200.79 | 65.84 | 65.84 | 63.75 | 64.36 | 64.36 | 52.28 | 47.96 | 48 | 34.34 |
| Reserves Total | 439.05 | 1776. 85 | 2598. 8 | 2516. 01 | 2295. 99 | 2025. 78 | 1591.6 9 | 1238. 3 | 1019.8 4 | 536.6 |
| Payout (%) | 0 | 0 | 13 | 4 | 6 | 13 | 11 | 11 | 15 | 12 |
| Dividend Per Share Adj.(Rs) | 0 | 0 | 1 | 1 | 2.5 | 5 | 5 | 5 | 5 | 0 |
| Year End Price (BSE) | 22.25 | 50.1 | 89.05 | 228.0 5 | 464.9 | 510.8 5 | 427.25 | 154.6 5 | 486.2 | 238.85 |
| ROE | 2.6307 046 | - 0.431 9066 | 0.025 0052 54 | 0.097 0322 82 | 0.122 3801 55 | 0.134 5173 05 | 0.1636 89118 | 0.167 9287 24 | 0.1556 03836 | 0.23606 6837 |
| | | | | | | | | | | |
| growth rate | 0 | 0 | 0.003 2506 83 | 0.003 8812 91 | 0.007 3428 09 | 0.017 4872 5 | 0.0180 05803 | 0.018 4721 6 | 0.0233 40575 | 0.02832 802 |
| cost of equity | 0 | 0 | 0.011 2292 36 | 0.004 3849 29 | 0.005 3774 16 | 0.009 7872 74 | 0.0117 02257 | 0.032 3272 09 | 0.0102 8334 | 0 |
| EVA | - 1683.2 3 | - 795.8 7 | 65.89 0667 08 | 250.0 4046 08 | 288.5 1390 95 | 280.5 3009 11 | 268.48 8206 | 214.4 4958 71 | 165.66 63997 | 134.78 |

Table 7: Economic Value Added - Monnet Ispat and Energy



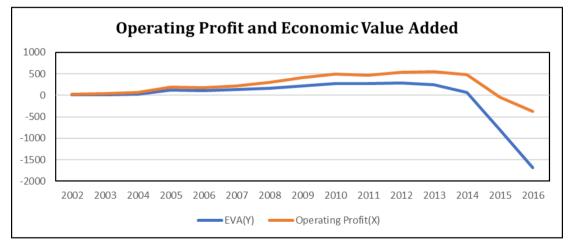


Figure 6 of Monnet Ispat is consistent throughout the 15- year timeline. It shows a steady rate of both the Economic Value Added (EVA) and the Operating profit but there is a steep fall in the factors in 2014. The merger year of 2010 does not witness any synergistic benefits which are cited as the major motivation for the firms.

VI. CONCLUSION

The above study is an attempt to understand the relationship between the Operating Profit and the Economic Value Added and their movement during the pre- and post-merger years. Some of the companies show no behavioral changes due to the merger event, yet some are more reactive to it. It is observed that the Iron and Steel sector companies

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have not reacted significantly to the merger and there is no quantum shift of performance of the companies. There is a further scope where it may be ascertained whether there is any significant change in pre- and post-merger performance.

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