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# **CONTENTS**

Sr.		
No.	TITLE & NAME OF THE AUTHOR (S)	Page No.
	LAGUNA INDUSTRIES' CORPORATE SOCIAL RESPONSIBILITY (CSR) PROGRAMS: LAGUNA INTERNATIONAL INDUSTRIAL PARK, PHILIPPINES	1
	DR. ANTONIO D. YANGO, DR. PEDRITO JOSE V. BERMUDO, DR. NONET AMA CUY, DR. MA. LINDIE D. MASALINTO & DR. LEONOR N. TIU	
2.	MAPPING THE INTELLECTUAL STRUCTURE OF HUMAN RESOURCES CHIN-HSIU TAI, CHE-WEI LEE & YUAN-DUEN LEE	9
3.	ROLE OF COMPETENCE DEVELOPMENT FOR ENHANCEMENT OF TECHNICAL SKILL WITH SPECIFIC REFERENCE TO BHILAI STEEL PLANT	14
	JAI PRAKASH PANDEY & SANJAY GUHA	
4.	EFFECTIVE SUPPLY CHAIN MANAGEMENT THROUGH SAP	17
_	KURUGANTY SEETHA RAM BABU & A. V. SATYANARAYANA RAO	22
5.	CONVERSATION OF INNOVATION IN BUSINESS: INDIAN INDUSTRY CASE STUDY  DR. SURESH TULSHIRAM SALUNKE & SHWETA SURESH TULSHIRAM SALUNKE	23
6.	CRYPTOGRAPHY: THE ESSENTIAL PART OF MODERN ERA	26
	CHARU JAIN	
7.	EMPLOYEE PRODUCTIVITY MANAGEMENT SYSTEM ADOPTED BY THE HOSPITALITY INDUSTRY IN INDIA MILIND A. PESHAVE & DR. RAJASHREE GUJARATHI	29
8.	AN EMPIRICAL STUDY ON AWARENESS LEVELS OF CORPORATE SOCIAL RESPONSIBILITY WITH A SPECIAL REFERENCE TO FORD FOUNDATION  V. PRATHIBA & DR. S. V. RAMANA	38
9.	AN EMPIRICAL STUDY ON WEAK-FORM OF MARKET EFFICIENCY OF BSE BANKEX STOCKS	43
	ASHA NADIG & DR. B. SHIVARAJ	
10.	A SURVEY ON AUTOMATIC QUESTION-ANSWERING TECHNIQUES  M. MAMATHA, D.KAVITHA & T.SWATHI	47
11.	MICRO SMALL &MEDIUM ENTERPRISES COMPETING IN GLOBAL BUSINESS ENVIRONMENT: A CASE OF INDIA	50
	DR. D.LALITHA RANI & K.SANKARA RAO	
12.	A STUDY ON CUSTOMER RELATIONSHIP MANAGEMENT (CRM) THROUGH E-BANKING  DR. BADIUDDIN AHMED & RIAZUDDIN AHMED	56
13.	FINANCIAL LEVERAGE AND ITS IMPACT ON STOCK RETURN	59
1.1	DR. KUSHALAPPA. S, VIJENDRA SHENOY. H & DR. P. PAKKEERAPPA WEB SESSION CLASSES: PERFORMANCE METRICS FOR BUSINESS LOGIC ISSUES IN N-TIER AND MVC ARCHITECTURE	67
14.	ASHOK KUMAR, MANISHA JAILIA & MANISHA GARHWAL	67
<b>15</b> .	THE STUDY OF PROBLEMS FACED BY COMMERCE STREAM STUDENTS OPTING FOR COMPUTER EDUCATION	74
10	PRATIBHA GUPTA & RISHI RAJ BALWARIA  AN EVALUATION OF ETHICS IN INSURANCE SECTOR	01
10.	DR. BADIUDDIN AHMED, SYED HAMID MOHIUDDIN QUADRI & MOHAMMED ABDUL LATEEF	81
<b>17</b> .	COMPARATIVE STUDY OF ADVERTISING MEDIA EFFECTIVENESS IN NAVSARI CITY	85
10	ZAKIRHUSEN PATEL & MIHIR SONI DHARMA ENSURING WELFARE & TRANSPARENCY IN CORPORATE GOVERNANCE	90
10.	GEETU SHARMA	30
19.	A STUDY ON VALUE GENERATION IN LEVERAGED BUTOUT'S SURESH A.S	94
20.	DOES THE OWNERSHIP MAKE A DIFFERENCE IN PERFORMANCE?: AN ASSESSMENT ON PUBLIC AND PRIVATE INSURERS IN INDIA	97
21	SANGEETHA R REASSESS OF CAPITAL STRUCTURE THEORIES	102
21.	RAJIB DATTA, TASNIM UDDIN CHOWDHURY & HARADHAN KUMAR MOHAJAN	102
22.	A STUDY OF ICT APPLICATION IN THE LIBRARIES AT THE TERTIAL LEVEL IN SIKKIM	107
23	NEERAJ KUMAR & AJAY KUMAR PANDEY THE INTERPLAY OF ORGANIZATIONAL DYNAMICS ON CORPORATE GOVERNANCE IN THE FACE OF A PERFORMANCE CONTRACTING IN	110
	KENYA	
24.	PRISCA BITTTOK & DR. OTIENO MOSES WHAT DOES SUSTAINABLE DEVELOPMENT REALLY MEANS? - A STUDY ON DIFFERENT DIMENSIONS OF SUSTAINABILITY	114
	BASHEER. M	447
25.	GREEN AUDIT: NEXT GENERATION'S HOPE  DR. S. K. JHA	117
26.	AN ANALYTICAL STUDY FOR FINANCIAL MANAGEMENT OF FLAT GLASS INDUSTRIES IN INDIA	122
27.	SECURITY ISSUES IN DBMS	129
28	A STUDY OF MOTIVATIONAL FACTORS FOR THE EMPLOYEES OF A POULTRY INDUSTRY	131
	SHANKAR K. JHA	
	AN ANALYSIS OF WORKING CAPITAL MANAGEMENT EFFICIENCY IN INDIAN TEXTILE INDUSTRY	135
29.	OMID SHARIFI	
	OMID SHARIFI  AN ANALYSIS OF INCOME AND EXPENDITURES OF TAMIL NADU BASED PRIVATE SECTOR BANKS IN INDIA  M. ANBALAGAN & M. GURUSAMY	141

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**REVIEW OF LITERATURE** 

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STATEMENT OF THE PROBLEM

**OBJECTIVES** 

**HYPOTHESES** 

**RESEARCH METHODOLOGY** 

**RESULTS & DISCUSSION** 

**FINDINGS** 

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SCOPE FOR FURTHER RESEARCH

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#### FINANCIAL LEVERAGE AND ITS IMPACT ON STOCK RETURN

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#### **ABSTRACT**

Every investment is characterized by risk and return. For a common man, the term 'risk' means a situation in which something unpleasant/unexpected may happen. In other words, risk is a situation involving exposure to uncertainty. If the actual return obtained is same as the expected return, such an investment could be considered to be risk free, if the actual return obtained is less than the expected return, such an investment could be considered to be risky. Leverage is the employment of an asset or source of finance for which firm pays fixed cost or fixed return. Financial leverage is defined as the ability of a firm to use fixed financial charges to magnify the effect of changes in EBIT on EPS. It is ratio of percentage changes in EPS to percentage changes in EBIT. It is also the ratio of EBIT to EBT. In simple it is nothing but Debt-equity ratio. The present study focuses on the impact of financial leverage on the returns of top 175 BSE companies excluding the banking companies. It helps to the companies to select the best portfolio to minimize the risk. The core objective of the study is to find out the impact of financial leverage on stock returns. Though many companies are listed under BSE we have taken only 175 companies out of top 200 BSE stocks excluding Banking companies. Since the study is to relate between stock returns and financial leverage, study is based on financial statement which is not free from bias.

#### **KEYWORDS**

Abnormal return, actual return, CAPM return, , systematic risk, unsystematic risk.

#### INTRODUCTION

very investment is characterized by risk and return. For a common man, the term 'risk' means a situation in which something unpleasant/unexpected may happen. In other words, risk is a situation involving exposure to uncertainty. In the domain of investment, the term 'risk' has a definite financial meaning. As we are aware, an investor invests his funds in anticipation of a regular stream of income in the future. Since, future is always uncertain, however careful one may be in predicting the future and planning for it, there is bound to be difference between the expected return on investment and the return actually realized. When an investor deploys his funds into some securities, he/she does so after analysing the expected returns. If the actual return obtained is same as the expected return, such an investment could be considered to be risk free, if the actual return obtained is less than the expected return, such an investment could be considered to be risky. Leverage is the employment of an asset or source of finance for which firm pays fixed cost or fixed return. Financial leverage is defined as the ability of a firm to use fixed financial charges to magnify the effect of changes in EBIT on EPS. It is ratio of percentage changes in EPS to percentage changes in EBIT. It is also the ratio of EBIT to EBT. In simple it is nothing but Debt-equity ratio. The present study focuses on the impact of financial leverage on the returns of top 175 BSE companies excluding the banking companies. It helps to the companies to select the best portfolio to minimize the risk.

#### **OBJECTIVES OF THE STUDY**

The core objective of the study is to find out the impact of financial leverage on stock returns. In order to achieve this core objective the following specific objectives have been framed.

- To do the risk return analysis of companies under study.
- To find out the risk and return of various portfolios constructed based on leverage.

#### SCOPE OF THE STUDY

The research study was confined to top 175 BSE companies excluding the banking companies. The study is conducted to analyze the impact of financial leverage on stock return.

#### **METHODOLOGY**

Research methodologies used in this study are being studied under the following headings

- Sources of the data: The study is mainly based on secondary data.
- Sample size: Top 175 BSE companies excluding banking companies
- Statistical tools used: Standard deviation, Beta, Coefficient of correlation, Regression, Coefficient of determination.
- Financial tools used: Ratio analysis and Comparative Financial statements.

TOOLS USED

Return of a year = 
$$\frac{P_1 - P_0}{P_0} * 100$$

Where

**P**<sub>1</sub> = Opening Price **P**<sub>0</sub> = Closing Price

 $Average\ Return/Actual\ Return = \frac{Total\ Return\ of\ 5\ years}{5}$   $Beta = r_{xy}\,\frac{\sigma_x}{\sigma_v}$ 

CAPM return of the security  $\stackrel{\cdot}{=} R_f + \beta_i (R_m - R_f)$  CAPM return of the Portfolio  $= R_f + \beta_i (R_m - R_f)$ 

Abnormal Return of security = Actual Return Of Security - CAPM Return of Security Abnormal Return of Portfolio = Actual Return Of Portfolio - CAPM Return of portfolio

 $\begin{array}{ll} \text{Systematic Risk of Security} = \left. \sigma_{m^2} * \beta_i \right.^2 \\ \text{Systematic Risk of Portfolio} = \left. \sigma_{m^2} * \beta_p \right.^2 \end{array}$ 

#### LIMITATIONS OF THE STUDY

Though many companies are listed under BSE we have taken only 175 companies out of top 200 BSE stocks excluding Banking companies. Since the study is to relate between stock returns and financial leverage, study is based on financial statement which is not free from bias.

#### DATA ANALYSIS AND INTERPRETATION

In the study the attempts are made to analyse the standard deviation (security), beta, returns and risk of the portfolio.

It is clear from Table 1 that MMTC Ltd. has highest (180.95%) actual return and JSW Energy Ltd. has lowest (-10.09%) actual return and the actual return of the portfolio is (40.11%). Manappuram Finance Ltd. has highest (35.55%) CAPM return and Tata Communications Ltd. has lowest (4.31%) CAPM return and the CAPM return of the portfolio is (16.70%). MMTC Ltd. has highest (161.39%) abnormal return and the JSW Energy Ltd. has lowest (-16.87%) and the abnormal return of the portfolio is (23.41%).

It is clear from Table 1 that JSW Energy Ltd. has lowest (4.99) systematic risk and Manappuram Finance Ltd has highest (44536.84) systematic risk and the systematic risk of the portfolio is 8051.03. Hindustan Petroleum Corporation Ltd. has lowest (100.79) unsystematic risk. MMTC Ltd. has highest (145640.46) unsystematic risk and unsystematic risk the of the portfolio is 7281.28.

It is clear from Table 2 that Jindal Steel & Power Ltd. has highest (104.43%) actual return and Suzlon Energy Ltd. has lowest (-12.81%) actual return and the actual return of the portfolio is 29.01%. JSW Steel Ltd. has highest (33.12%) CAPM return and Britannia Industries Ltd. as lowest (5.96%) CAPM return and the CAPM return of the portfolio is 17.22%. Jindal Steel & Power Ltd. has highest (80.69%) Abnormal Return and the Suzlon Energy Ltd. has lowest (-27.30%) Abnormal Return. Abnormal Return of the portfolio is 11.79%.

It is clear from Table 2 that Britannia Industries Ltd. has lowest (13.95) systematic risk and Bharat Petroleum Corpn. Ltd. has highest (37407.31) Systematic Risk and the Systematic Risk of the portfolio is 7730.75. Bharat Petroleum Corpn. Ltd. has lowest (86.75) unsystematic risk and the Jindal Steel & Power Ltd. has highest (15163.92) unsystematic risk and unsystematic risk of the portfolio is 1867.65.

It is clear from Table 3 that TTK Prestige Ltd. has highest (168.97%) actual return and Reliance Communications Ltd. has lowest (-21.15%) actual return and the actual return of the portfolio is 28.30%. Sesa Goa Ltd. has highest (47.19%) CAPM return and Jubilant Food Works Ltd. has lowest (4.29%) CAPM return and the CAPM return of the portfolio is 14.67%. TTK Prestige Ltd. has highest (132.02%) abnormal return and the Reliance Communications Ltd. has lowest (-30.66%) and the abnormal return of the portfolio is 13.63%.

It is clear from Table 3 that Oil India Ltd. has lowest (0.02) systematic risk and Sesa Goa Ltd. has highest (87370.17) systematic risk and the systematic risk of the portfolio is 5945.35. Coal India Ltd. has lowest (0.24) unsystematic risk and the Jindal Steel & Power Ltd. has highest (20177.07) unsystematic risk and unsystematic risk of the portfolio is 1597.01.

It is clear from Table 4 that NMDC Ltd. has highest (81.79%) actual return and Multi Commodity Exchange Of India Ltd. has lowest (0) actual return and the actual return of the portfolio is 28.35%. Engineers India Ltd. has highest (25.07%) CAPM return and Multi Commodity Exchange Of India Ltd. has lowest (6.48%) CAPM return and the CAPM return of the portfolio is 14.11%. NMDC Ltd. has highest (65.35%) abnormal return and the Bajaj Holdings & Investment Ltd. has lowest (-12.02%) abnormal return and the abnormal return of the portfolio is 14.24%.

It is clear from Table 4 that Multi Commodity Exchange Of India Ltd. has lowest (0)systematic risk and Engineers India Ltd. has highest (18226.59) systematic risk and the systematic risk of the portfolio is 4056.48.Multi Commodity Exchange Of India Ltd. has lowest (0) unsystematic risk. The NMDC Ltd. has highest (34195.04) unsystematic risk and unsystematic risk of the portfolio is 3989.12.

It is clear from Table 5 that there is low positive correlation (0.073) between the financial leverage and return on the security. The co-efficient of determination (0.005) says that only 0.5% of the variance in stock return is expressed by variance in the financial leverage

#### **RESULTS AND DISCUSSION**

Here an attempt is made by the researcher to analyze the data collected on the topic under study. The results are discussed under various headings based on the degree of financial leverage

#### Debt/equity ratio 2 and more than 2

MMTC Ltd. has highest (180.95%) actual return and JSW Energy Ltd. has lowest (-10.09%) actual return and the actual return of the portfolio is 40.11%. Manappuram Finance Ltd. has highest (35.55%) CAPM return and Tata Communications Ltd. has lowest (4.31%) CAPM return and the CAPM return of the portfolio is 16.70%. MMTC Ltd. has highest (161.39%) abnormal return and the JSW Energy Ltd. has lowest (-16.87%) and the abnormal return of the portfolio is 23.41%.

JSW Energy Ltd. has lowest (4.99) systematic risk and Manappuram Finance Ltd has highest (44536.84) systematic risk and the systematic risk of the portfolio is 8051.03. Hindustan Petroleum Corporation Ltd. has lowest (100.79) unsystematic risk. MMTC Ltd has highest (145640.46) unsystematic risk and unsystematic risk of the portfolio is 7281.28.

#### Debt/equity ratio more than 1 but less than 2

Jindal Steel & Power Ltd. has highest (104.43%) actual return and Suzlon Energy Ltd. has lowest (-12.81%) actual return and the actual return of the portfolio is 29.01%. JSW Steel Ltd. has highest (33.12%) CAPM return and Britannia Industries Ltd. as lowest (5.96%) CAPM return and the CAPM return of the portfolio is 17.22%. Jindal Steel & Power Ltd. has highest (80.69%) Abnormal Return and the Suzlon Energy Ltd. has lowest (-27.30%) and the Abnormal Return of the portfolio is 11.79%.

Britannia Industries Ltd. has lowest (13.95) systematic risk and Bharat Petroleum Corpn. Ltd. has highest (37407.31) Systematic Risk and the Systematic Risk of the portfolio is 7730.75. Bharat Petroleum Corpn. Ltd. has lowest (86.75) unsystematic risk and the Jindal Steel & Power Ltd. has highest (15163.92) unsystematic risk and unsystematic risk of the portfolio is 1867.65.

#### Debt/equity ratio more than 0 but less than 1

TTK Prestige Ltd. has highest (168.97%) actual return and Reliance Communications Ltd. has lowest (-21.15%) actual return and the actual return of the portfolio is 28.30%. Sesa Goa Ltd. has highest (47.19%) CAPM return and Jubilant Food Works Ltd. has lowest (4.29%) CAPM return and the CAPM return of the portfolio is 14.67%. TTK Prestige Ltd. has highest (132.02%) abnormal return and the Reliance Communications Ltd. has lowest (-30.66%) and the abnormal return of the portfolio is 13.63%.

Oil India Ltd. has lowest (0.02) systematic risk and Sesa Goa Ltd. has highest (87370.17) systematic risk and the systematic risk of the portfolio is 5945.35. Coal India Ltd. has lowest (0.24) unsystematic risk and the Jindal Steel & Power Ltd. has highest (20177.07) unsystematic risk and unsystematic risk of the portfolio is 1597.01.

#### Zero debt/equity ratio

NMDC Ltd. has highest (81.79%) actual return and Multi Commodity Exchange Of India Ltd. has lowest (0) actual return and the actual return of the portfolio is 28.35%. Engineers India Ltd. has highest (25.07%) CAPM return and Multi Commodity Exchange Of India Ltd. has lowest (6.48%) CAPM return and the CAPM return of the portfolio is 14.11%. NMDC Ltd. has highest (65.35%) abnormal return and the Bajaj Holdings & Investment Ltd. has lowest (-12.02%) abnormal return and the abnormal return of the portfolio is 14.24%.

Multi Commodity Exchange Of India Ltd. has lowest (0) systematic risk and Engineers India Ltd. has highest (18226.59) systematic risk and the systematic risk of the portfolio is 4056.48. Multi Commodity Exchange Of India Ltd. has lowest (0) unsystematic risk. The NMDC Ltd. has highest (34195.04) unsystematic risk and unsystematic risk of the portfolio is 3989.12.

#### FINDINGS AND CONCLUSIONS

Among the companies whose debt equity ratio is 2 and more than 2, MMTC Ltd. has highest (161.39%) abnormal return. JSW Energy Ltd. has lowest (4.99) systematic risk and Hindustan Petroleum Corporation Ltd. has lowest (100.79) unsystematic risk. Among the companies whose debt equity ratio is more than 1 but less than 2, Jindal Steel & Power Ltd. has highest (80.69%) abnormal return. Britannia Industries Ltd. has lowest (13.95) systematic risk and Bharat Petroleum Corpn. Ltd. has lowest (86.75) unsystematic risk. Among the companies whose debt equity ratio is more than 0 but less than 1, TTK Prestige Ltd. has highest (132.02%) abnormal return. Oil India Ltd. has lowest (0.02) systematic risk and Coal India Ltd. has lowest (0.24) unsystematic risk. Among the companies whose debt equity ratio is zero, NMDC Ltd. has highest (65.35%) abnormal return. Multi Commodity Exchange Of India Ltd. has lowest (0) systematic risk and Multi Commodity Exchange Of India Ltd. has lowest (0) unsystematic risk. The correlation coefficient between financial leverage and average return of sample stocks is 0.073. Hence we can conclude that the role of financial leverage has no impact on stock returns..

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#### **TABLE**

TABLE 1: RETURN OF PORTFOLIO CONSISTING OF STOCKS WITH MORE THAN 2 DEBT EQUITY RATIO

SI.	Company Name	Actual Return	CAPM Return	Abnormal Return	Syste	Unsystematic
No.		(%)	(%)	(%)	matic	Risk
					Risk	
1	Adani Enterprises Ltd.	73.73	24.00	49.74	16177.40	3384.65
2	Adani Power Ltd.	-8.43	7.19	-15.63	26.88	275.14
3	Bhushan Steel Ltd.	67.22	25.37	41.85	18821.81	2250.30
4	Dish T V India Ltd.	15.94	11.31	4.63	1229.07	1558.87
5	Essar Oil Ltd.	50.71	16.53	34.18	5321.33	17048.99
6	GMR Infrastructure Ltd.	8.75	10.69	-1.94	934.96	2860.12
7	Hindustan Petroleum Corporation Ltd.	4.85	7.52	-2.67	57.32	100.79
8	Housing Development Finance Corporation Ltd.	26.68	13.34	13.34	2481.14	188.96
9	IDFC Ltd.	39.47	20.19	19.28	9904.96	586.47
10	IFCI Ltd.	23.66	17.65	6.01	6577.20	131.02
11	Indiabulls Financial Services Ltd.	3.90	9.77	-5.87	570.04	1866.04
12	Jain Irrigation Systems Ltd.	25.64	18.77	6.87	7962.99	720.29
13	Jaiprakash Associates Ltd.	32.82	18.69	14.13	7865.39	2157.08
14	Jet Airways (India) Ltd.	13.45	19.35	-5.91	8739.38	801.74
15	JSW Energy Ltd.	-10.09	6.79	-16.87	4.99	242.52
16	LancoInfratech Ltd.	52.72	24.53	28.19	17180.15	3254.80
17	LIC Housing Finance Ltd.	83.53	22.82	60.71	14084.57	1014.59
18	Mahindra & Mahindra Financial Services Ltd.	33.67	11.89	21.78	1545.36	1871.18
19	Manappuram Finance Ltd	152.12	35.55	116.57	44536.84	6429.15
20	MMTC Ltd.	180.96	19.56	161.39	9024.10	145640.46
21	Power Finance Corpn. Ltd.	18.75	11.86	6.90	1525.55	551.04
22	Rural Electrification Corpn Ltd	26.60	15.68	10.92	4467.07	1143.85
23	Shree Renuka Sugars Ltd.	20.04	11.27	8.78	1208.62	2672.71
24	Shriram Transport Finance Company Ltd.	69.79	19.55	50.24	9011.20	3102.58
25	Strides Arcolab Ltd.	56.01	23.82	32.19	15850.33	7022.61
26	Tata Communications Ltd	-7.56	4.31	-11.87	247.86	461.39
27	Tata Motors Ltd.	62.26	25.82	36.44	19723.92	3221.87
28	Tata Steel Ltd.	37.03	21.12	15.91	11297.78	479.17
29	United Spirits Ltd.	13.17	15.47	-2.30	4262.52	1244.45
30	Wockhardt Ltd.	35.96	10.59	25.37	890.12	6155.70
Portf	olio	40.11%	16.70%	23.41%	8051.03	7281.28

Portfolio

TABLE 2: RETURN OF PORTFOLIO CONSISTING OF STOCKS WITH MORE THAN 1 AND LESS THAN 1.99 DEBT EQUITY RATIO SI. **CAPM Return Company Name Actual Return** Abnormal Return Systematic Unsystematic No. (%) (%) (%) Risk Risk 1 Adani Ports and Special Economic Zone Ltd. 16.24 16.02 0.22 4801.71 632.41 2 Aditya Birla Nuvo Ltd. 14.42 14.65 -0.23 3521.10 441.40 3 29.77 25.40 10095.47 AurobindoPharma Ltd. 55.17 28591.55 4 Bharat Forge Ltd. 21.91 17.42 4.49 6310.37 796.12 5 Bharat Petroleum Corpn. Ltd. 19.51 8.71 10.80 261.61 86.75 6 Britannia Industries Ltd. 20.30 5.96 14.34 13.95 496.24 7 Century Textiles & Industries. Ltd 13.89 16.36 -2.475144.93 690.16 8 CESC Ltd. 2.16 13.07 -10.91 2288.87 130.33 9 Chambal Fertilisers& Chemicals Ltd. 9.92 623.41 385.19 23.24 13.32 10 Coromandel International Ltd. 76.85 20.84 56.02 10866.94 340.36 11 Gitanjali Gems Ltd. 50.67 18.67 32.00 7832.85 2117.31 12 12.99 2.37 2234.88 758.47 Glenmark Pharmaceuticals Ltd. 15.36 13 25.06 41.33 18199.18 3381.06 Havells India Ltd. 66.39 14 Hindalco Industries Ltd. 37.62 23.17 14.45 14680.19 843.72 15 Idea Cellular Ltd. 7.51 9.33 -1.82 428.39 949.44 7.39 17.92 -10.536904.56 792.61 16 Indian Hotels Company Ltd. 17 Indian Oil Corpn. Ltd. 8.57 10.26 -1.69 753.18 93.61 18 IRB Infrastructure Developers Ltd 27.51 20.50 7.01 10365.04 1597.06 19 18.99 -4.94 8254.68 1198.10 IVRCL Ltd. 14.06 20 Jaiprakash Power Ventures Ltd 26.94 15.92 11.02 4701.17 1652.95 21 Jindal Steel & Power Ltd. 104.43 23.74 80.69 15699.71 15163.92 22 JSW Steel Ltd. 76.05 33.12 42.93 37407.31 4902.29 Larsen & Toubro Ltd. 30.75 17.07 13.69 5911.75 696.81 23 24 Mahindra & Mahindra Ltd 31.34 17.97 13.37 6964.28 1054.41 2136.63 731.27 25 31.13 12.85 18.28 MothersonSumi Systems Ltd. 26 Pantaloon Retail (India) Ltd. 2.50 17.26 -14.76 6126.23 519.14 27 Petronet LNG Ltd. 43.35 12.94 30.41 2197.71 644.26 28 7.48 15.16 -7.67 2612.79 Punj Lloyd Ltd. 3969.70 29 Rajesh Exports Ltd. 68.01 28.71 39.30 26058.63 4198.52 30 Ranbaxy Laboratories Ltd. 29.61 18.91 10.70 8146.51 615.10 31 16.41 -2.27 14.14 5197.16 1202.92 Reliance Capital Ltd. 32 50.27 18.90 31.37 8128.50 2412.78 Shree Cement Ltd. 33 Sintex Industries Ltd 31.23 21.11 10.12 11281.41 428.36 Suzlon Energy Ltd. 34 -12.81 14.49 -27.30 3387.36 455.62 35 15.58 Tata Chemicals Ltd. 24.61 9.02 4369.53 130.04 36 Tata Power Company Ltd. 29.48 13.23 16.25 2404.53 2758.75 37 -1.71 16.59 -18.30 5390.47 705.12 Unitech Ltd 38 United Breweries Ltd. 39.14 14.04 25.10 3014.00 4937.96 39 Videocon Industries Ltd. 6.54 17.94 -11.40 6929.08 1189.61

17.22%

11.79%

7730.75

1867.65

29.01%

SI.	Company Name	Actual	CAPM Return	Abnormal Return	Systematic	Unsystematic
No.		Return (%)	(%)	(%)	Risk	Risk
1	ACC Ltd.	17.27	10.70	6.57	938.96	219.43
2	Ambuja Cements Ltd.	15.90	11.46	4.45	1306.14	193.62
3	Apollo Hospitals Enterprise Ltd.	25.23	10.78	14.45	974.37	408.10
4	Apollo Tyres Ltd.	58.74	24.13	34.61	16422.59	1715.57
5	Ashok Leyland Ltd.	32.01	19.33	12.68	8704.47	1517.16
6	Asian Paints Ltd.	46.82	16.12	30.70	4901.68	192.90
7	Bajaj Auto Ltd.	57.06	18.13	38.93	7150.28	2022.45
8	Bajaj Finserv Ltd.	34.50	11.38	23.12	1266.46	578.64
9	Bata India Ltd.	52.82	12.12	40.70	1676.17	2240.86
10	Bharat Heavy Electricals Ltd.	12.48	11.81	0.67	1495.67	1426.63
11	BhartiAirtel Ltd.	-1.50	7.55	-9.05	60.62	162.40
12	Biocon Ltd.	8.55	13.39	-4.83	2516.79	382.61
13	Bosch Ltd.	23.11	9.75	13.35	565.82	202.70
14	Cadila Healthcare Ltd.	45.17	16.89	28.28	5717.84	2695.33
15	Cairn India Ltd.	25.81	11.16	14.66	1153.61	504.79
16	Castrol India Ltd.	41.98	10.78	31.20	974.68	636.11
17	Cipla Ltd.	7.35	9.38	-2.03	443.35	225.83
18	Coal India Ltd.	-0.23	6.50	-6.73	0.02	0.24
19	Colgate-Palmolive (India) Ltd.	27.84	7.27	20.58	32.81	108.34
20	Container Corpn. Of India Ltd.	5.21	11.85	-6.64	1518.79	340.17
21	Crompton Greaves Ltd.	41.81	24.18	17.63	16508.30	1432.29
22	Cummins India Ltd.	37.99	17.55	20.43	6464.61	342.25
23	Dabur India Ltd.	19.63	9.97	9.65	644.34	23.39
24	DiviS Laboratories Ltd.	27.33	10.07	17.26	678.27	1852.08
25	DLF Ltd.	-5.50	14.37	-19.87	3283.72	44.92

Volu	ME No. 3 (2013), ISSUE No. 10 (OCTOBER)					ISSN 2231-1009
26	DrReddys Laboratories Ltd.	32.17	15.47	16.71	4257.23	1329.60
27	EIH Ltd.	4.32	10.26	-5.94	752.23	775.28
28	Exide Industries Ltd.	48.77	18.85	29.92	8062.97	333.15
29	Financial Technologies (India) Ltd.	2.76	17.41	-14.65	6302.90	1147.19
30	GAIL (India) Ltd.	21.74	11.30	10.45	1223.14	438.68
31	Godrej Consumer Products Ltd.	32.07	10.65	21.42	915.89	847.61
32	Godrej Industries Ltd.	43.82	18.03	25.79	7031.17	680.60
33	Grasim Industries Ltd.	11.42	12.20	-0.78	1726.27	209.18
34	Great Eastern Shipping Company Ltd.	14.75	12.07	2.68	1648.66	1351.46
35	Gujarat Fluorochemicals Ltd.	42.63	13.91	28.73	2909.74	5927.46
36	Gujarat Mineral Devp. Corpn. Ltd.	84.35	23.59	60.76	15433.39 3893.93	4598.27
37	Gujarat State Petronet Ltd.  HCL Technologies Ltd.	21.42	15.07	6.35		188.30
38 39	Hero MotoCorp Ltd.	42.63 29.70	22.08 8.13	20.55 21.56	12833.17 144.65	1938.29 1473.71
40	Hexaware Technologies Ltd.	42.32	15.49	26.83	4283.34	5546.50
41	Hindustan Copper Ltd.	91.80	30.08	61.72	29365.02	6181.33
42	Hindustan Copper Ltd.	15.81	5.57	10.24	43.31	258.28
43	Housing Development & Infrastructure Ltd.	15.09	24.03	-8.94	16241.81	1826.74
44	India Cements Ltd.	-2.92	9.31	-12.23	422.13	498.93
45	Indiabulls Real Estate Ltd.	-6.07	13.68	-19.76	2734.14	1183.10
46	Indraprastha Gas Ltd.	35.74	12.15	23.59	1695.56	78.20
47	Ipca Laboratories Ltd.	57.58	24.57	33.01	17254.78	3233.97
48	ITC Ltd.	26.42	8.85	17.56	297.64	168.57
49	JaypeeInfratech Ltd.	-2.68	6.72	-9.40	3.08	32.91
50	Jubilant FoodWorks Ltd.	37.71	4.29	33.42	252.89	2661.69
51	Lupin Ltd.	42.43	11.50	30.93	1329.02	1884.07
52	Mahindra Satyam Ltd	5.62	17.11	-11.50	5963.24	1433.19
53	Mangalore Refinery & Petrochemicals Ltd.	31.64	13.53	18.11	2620.70	2800.80
54	Marico Ltd.	26.67	10.75	15.92	961.99	191.33
55	Maruti Suzuki India Ltd.	14.67	11.03	3.63	1093.56	399.18
56	Max India Ltd.	6.74	13.69	-6.94	2738.03	1131.05
57	McleodRussel India Ltd.	65.46	23.45	42.01	15177.64	5024.47
58	Mphasis Ltd.	29.23	17.67	11.56	6596.51	3996.39
59	MRF Ltd.	59.69	22.86	36.83	14138.35	3365.72
60	Nestle India Ltd.	39.74	9.98	29.76	646.67	92.25
61	Neyveli Lignite Corpn. Ltd.	26.99	12.67	14.32	2019.31	3657.73
62	NHPC Ltd.	-7.87	6.90	-14.78	9.58	110.59
63	NTPC Ltd.	3.09	8.07	-4.99	134.06	249.45
64 65	Oil & Natural Gas Corpn. Ltd. Oil India Ltd	5.97	9.66	-3.69 -4.06	534.77 0.02	2.00 43.27
66	Opto Circuits (India) Ltd.	2.43 31.43	6.50 14.93	16.50	3764.62	221.72
67	Pidilite Industries Ltd.	40.28	16.71	23.57	5522.80	471.89
68	PipavavDefence and Offshore Engineering Co Ltd.	2.66	6.44	-3.79	0.06	28.70
69	Piramal Enterprises Ltd.	23.31	14.09	9.22	3053.23	260.01
70	Power Grid Corpn. Of India Ltd.	2.13	7.11	-4.97	20.94	26.09
71	PTC India Ltd.	8.57	11.70	-3.14	1437.63	892.63
72	Reliance Communications Ltd.	-21.15	9.51	-30.66	484.63	606.78
73	Reliance Industries Ltd.	8.55	10.84	-2.29	1002.65	874.29
74	Reliance Infrastructure Ltd	28.36	14.94	13.43	3772.62	4405.98
75	Reliance Power Ltd	-8.61	11.71	-20.31	1441.14	141.46
76	Sesa Goa Ltd.	139.06	47.19	91.86	87370.17	20177.07
77	Siemens Ltd.	27.33	18.30	9.03	7364.65	316.35
78	Steel Authority Of India Ltd.	19.60	18.12	1.48	7142.46	1155.14
79	Sterlite Industries (India) Ltd.	17.30	16.78	0.52	5588.99	541.23
80	Sun Pharmaceutical Inds. Ltd.	24.08	9.64	14.44	527.23	115.20
81	Sun TV Network Ltd.	13.27	16.99	-3.72	5824.50	965.63
82	Tata Consultancy Services Ltd.	34.37	17.62	16.75	6547.49	2156.11
83	Tata Global Beverages Ltd	17.67	11.13	6.53	1141.85	179.00
84	Tech Mahindra Ltd.	18.91	20.37	-1.46	10173.51	3420.94
85	Thermax Ltd.	45.79	24.69	21.10	17480.97	1217.07
86	Titan Industries Ltd.	52.53	14.41	38.12	3318.18	1168.80
87	Torrent Power Ltd.	62.92	24.13	38.78	16430.61	2192.38
88	TTK Prestige Ltd.	168.97	36.95	132.02	48938.06	15975.21
89	Ultratech Cement Ltd.	22.54	12.89	9.64	2169.71	699.70
		-0.94	10.43	-11.37	824.13	174.34
90	United Phosphorus Ltd.		35.04	24.04	10702 40	
91	Voltas Ltd.	56.82	25.81	31.01	19703.46	1207.26
91 92	Voltas Ltd. Wipro Ltd.	56.82 25.29	18.14	7.15	7173.69	1511.56
91	Voltas Ltd. Wipro Ltd. Zee Entertainment Enterprises Ltd.	56.82				

	TABLE 4: RETURN OF PORTFOLIO CONSISTING OF STOCKS WITH 0 DEBT EQUITY RATIO							
Sl.No.	Company Name	Actual Return (%)	CAPM Return (%)	Abnormal Return (%)	Systematic Risk	Unsystematic Risk		
1	ABB Ltd.	19.51	14.27	5.24	3199.33	634.36		
2	Bajaj Holdings & Investment Ltd.	1.76	13.78	-12.02	2813.17	2220.53		
3	Bharat Electronics Ltd.	13.88	15.03	-1.15	3858.53	1828.17		
4	CRISIL Ltd.	34.52	11.08	23.44	1115.13	578.13		
5	Engineers India Ltd.	62.89	25.07	37.81	18226.59	3665.53		
6	Glaxosmithkline Consumer Healthcare Ltd.	43.41	11.52	31.89	1338.74	373.12		
7	Glaxosmithkline Pharmaceuticals Ltd.	17.65	9.46	8.19	468.91	262.21		
8	Hindustan Zinc Ltd.	31.57	16.07	15.50	4847.85	1163.31		
9	Infosys Ltd.	14.69	11.97	2.71	1590.17	914.20		
10	Multi Commodity Exchange Of India Ltd.	0.00	6.48	-6.48	0.00	0.00		
11	National Aluminium Company Ltd.	16.41	14.61	1.80	3487.39	1531.78		
12	NMDC Ltd	81.79	16.44	65.35	5226.43	34195.04		
13	Oracle Financial Services Software Ltd	30.49	17.64	12.85	6562.01	4492.22		
Portfol	io	28.35%	14.11%	14.24%	4056.48	3989.12		

#### **TABLE 5: CORRELATION AND COEFFICIENT OF DETERMINATION**

Sl.No.	COMPANY NAME	AVERAGE RETURN	DEBT /EQUITY RATIO
1	ABB Ltd.	19.51	0.00
2	ACC Ltd.	17.27	0.09
3	Adani Enterprises Ltd.	73.73	2.94
4	Adani Ports and Special Economic Zone Ltd.	16.24	1.55
5	Adani Power Ltd.	-8.43	2.86
6	Aditya Birla Nuvo Ltd.	14.42	1.55
7	Ambuja Cements Ltd.	15.90	0.03
8	Apollo Hospitals Enterprise Ltd.	25.23	0.38
9	Apollo Tyres Ltd.	58.74	0.80
10	Ashok Leyland Ltd.	32.01	0.83
11	Asian Paints Ltd.	46.82	0.83
12	AurobindoPharma Ltd.	55.17	1.36
13	Bajaj Auto Ltd.	57.06	0.46
14	Bajaj Finserv Ltd.		
15		34.50	0.80
	Bajaj Holdings & Investment Ltd.	1.76	0.00
16	Bata India Ltd.	52.82	0.15
17	Bharat Electronics Ltd.	13.88	0.00
18	Bharat Forge Ltd.	21.91	1.19
19	Bharat Heavy Electricals Ltd.	12.48	0.01
20	Bharat Petroleum Corpn. Ltd.	19.51	1.53
21	BhartiAirtel Ltd.	-1.50	0.74
22	Bhushan Steel Ltd.	67.22	3.18
23	Biocon Ltd.	8.55	0.22
24	Bosch Ltd.	23.11	0.08
25	Britannia Industries Ltd.	20.30	1.08
26	Cadila Healthcare Ltd.	45.17	0.76
27	Cairn India Ltd.	25.81	0.06
28	Castrol India Ltd.	41.98	0.00
29	Century Textiles & Industries. Ltd.	13.89	1.40
30	CESC Ltd.	2.16	1.15
31	Chambal Fertilisers& Chemicals Ltd.	23.24	1.85
32	Cipla Ltd.	7.35	0.09
33	Coal India Ltd.	-0.23	0.07
34	Colgate-Palmolive (India) Ltd.	27.84	0.02
35	Container Corpn. Of India Ltd.	5.21	0.01
36	Coromandel International Ltd.	76.85	1.19
37	CRISIL Ltd.	34.52	0.00
38	Crompton Greaves Ltd.	41.81	0.33
39	Cummins India Ltd.	37.99	0.04
40	Dabur India Ltd.	19.63	0.40
41	Dish T V India Ltd.	15.94	6.31
42	DiviS Laboratories Ltd.	27.33	0.04
43	DLF Ltd.	-5.50	0.91
44	DrReddys Laboratories Ltd.	32.17	0.53
45	EIH Ltd.	4.32	0.74
46	Engineers India Ltd.	62.89	0.00
47	Essar Oil Ltd.	50.71	2.91
48	Exide Industries Ltd.	48.77	0.20
49	Financial Technologies (India) Ltd.	2.76	0.46
50	GAIL (India) Ltd.	21.74	0.32
51	Gitanjali Gems Ltd.	50.67	1.11
52	Glaxosmithkline Consumer Healthcare Ltd.		
		43.41	0.00
53	Glaxosmithkline Pharmaceuticals Ltd.	17.65	0.00

3), Issue	No. 10 (OCTOBER)		
54	Glenmark Pharmaceuticals Ltd.	15.36	1.04
55	GMR Infrastructure Ltd.	8.75	2.87
56	Godrej Consumer Products Ltd.	32.07	0.67
57	Godrej Industries Ltd.	43.82	0.92
58	Grasim Industries Ltd.	11.42	0.49
59	Great Eastern Shipping Company Ltd.	14.75	0.87
60	Gujarat Fluorochemicals Ltd.	42.63	0.46
61	Gujarat Mineral Devp. Corpn. Ltd.	84.35	0.05
62	Gujarat State Petronet Ltd.	21.42	0.20
63	Havells India Ltd.	66.39	1.84
64	HCL Technologies Ltd.	42.63	0.31
65	Hero MotoCorp Ltd.	29.70	0.16
66	Hexaware Technologies Ltd.	42.32	0.01
67	Hindalco Industries Ltd.	37.62	1.41
68	Hindustan Copper Ltd.	91.80	0.03
69	Hindustan Petroleum Corporation Ltd.	4.85	2.20
70	Hindustan Unilever Ltd.	15.81	0.05
71	Hindustan Zinc Ltd.	31.57	0.00
72	Housing Development & Infrastructure Ltd.	15.09	0.62
73	Housing Development Finance Corporation Ltd.	26.68	5.37
74	Idea Cellular Ltd.	7.51	1.01
75	IDFC Ltd.	39.47	3.64
76	IFCI Ltd.	23.66	4.10
77	India Cements Ltd.	-2.92	0.68
78	Indiabulls Financial Services Ltd.	3.90	3.12
79	Indiabulls Real Estate Ltd.	-6.07	0.27
80	Indian Hotels Company Ltd.	7.39	1.54
81	Indian Oil Corpn. Ltd.	8.57	1.02
82	Indraprastha Gas Ltd.	35.74	0.13
83	Infosys Ltd.	14.69	0.00
84	Ipca Laboratories Ltd.	57.58	0.55
85	IRB Infrastructure Developers Ltd	27.51	1.68
86	ITC Ltd.	26.42	0.01
87	IVRCL Ltd.	14.06	1.31
88	Jain Irrigation Systems Ltd.	25.64	2.01
89	Jaiprakash Associates Ltd.	32.82	3.55
90	Jaiprakash Power Ventures Ltd	26.94	1.93
91	JaypeeInfratech Ltd.	-2.68	0.54
92	Jet Airways (India) Ltd.	13.45	22.38
93	Jindal Steel & Power Ltd.	104.43	1.14
94	JSW Energy Ltd.	-10.09	2.25
95	JSW Steel Ltd.	76.05	1.53
96	Jubilant FoodWorks Ltd.	37.71	0.01
97	LancoInfratech Ltd.	52.72	3.31
98	Larsen & Toubro Ltd.	30.75	1.42
99	LIC Housing Finance Ltd.	83.53	10.29
100	Lupin Ltd.	42.43	0.59
101	Mahindra & Mahindra Financial Services Ltd.	33.67	3.73
102	Mahindra & Mahindra Ltd.	31.34	1.46
103	Mahindra Satyam Ltd	5.62	0.02
104	Manappuram Finance Ltd	152.12	4.62
105	Mangalore Refinery & Petrochemicals Ltd.	31.64	0.46
106	Marico Ltd.	26.67	0.83
107	Maruti Suzuki India Ltd.	14.67	0.07
108	Max India Ltd.	6.74	0.60
109	McleodRussel India Ltd.	65.46	0.48
110	MMTC Ltd.	180.96	3.03
111	MothersonSumi Systems Ltd.	31.13	1.15
112	Mphasis Ltd.	29.23	0.03
113	MRF Ltd.	59.69	0.57
114	Multi Commodity Exchange Of India Ltd.	0.00	0.00
115	National Aluminium Company Ltd.	16.41	0.00
116	Nestle India Ltd.	39.74	0.15
117	Neyveli Lignite Corpn. Ltd.	26.99	0.35
118	NHPC Ltd.	-7.87	0.71
119	NMDC Ltd	81.79	0.00
120	NTPC Ltd.	3.09	0.71
121	Oil & Natural Gas Corpn. Ltd.	5.97	0.09
122	Oil India Ltd	2.43	0.02
123	Opto Circuits (India) Ltd.	31.43	0.57
124	Oracle Financial Services Software Ltd	30.49	0.00
125	Pantaloon Retail (India) Ltd.	2.50	1.78

), <b>1</b> 550E	NO. 10 (OCTOBER)		
126	Petronet LNG Ltd.	43.35	1.06
127	Pidilite Industries Ltd.	40.28	0.54
128	PipavavDefence and Offshore Engineering Co Ltd.	2.66	0.86
129	Piramal Enterprises Ltd.	23.31	0.53
130	Power Finance Corpn. Ltd.	18.75	4.76
131	Power Grid Corpn. Of India Ltd.	2.13	0.84
132	PTC India Ltd.	8.57	0.14
133	Punj Lloyd Ltd.	7.48	1.34
134	Rajesh Exports Ltd.	68.01	1.68
135	Ranbaxy Laboratories Ltd.	29.61	1.15
136	Reliance Capital Ltd.	14.14	1.83
137	Reliance Communications Ltd.	-21.15	0.89
138	Reliance Industries Ltd.	8.55	0.57
139	Reliance Infrastructure Ltd	28.36	0.46
140	Reliance Power Ltd	-8.61	0.31
141	Rural Electrification Corpn Ltd	26.60	5.90
142	Sesa Goa Ltd.	139.06	0.12
143	Shree Cement Ltd.	50.27	1.41
144	Shree Renuka Sugars Ltd.	20.04	2.17
145	Shriram Transport Finance Company Ltd.	69.79	2.41
146	Siemens Ltd.	27.33	0.00
147	Sintex Industries Ltd.	31.23	1.25
148	Steel Authority Of India Ltd.	19.60	0.40
149	Sterlite Industries (India) Ltd.	17.30	0.27
150	Strides Arcolab Ltd.	56.01	3.10
151	Sun Pharmaceutical Inds. Ltd.	24.08	0.03
152	Sun TV Network Ltd.	13.27	0.02
153	Suzlon Energy Ltd.	-12.81	1.80
154	Tata Chemicals Ltd.	24.61	1.15
155	Tata Communications Ltd	-7.56	2.11
156	Tata Consultancy Services Ltd.	34.37	0.02
157	Tata Global Beverages Ltd	17.67	0.48
158	Tata Motors Ltd.	62.26	3.05
159	Tata Power Company Ltd.	29.48	1.74
160	Tata Steel Ltd.	37.03	2.05
161	Tech Mahindra Ltd.	18.91	0.32
162	Thermax Ltd.	45.79	0.06
163	Titan Industries Ltd.	52.53	0.19
164	Torrent Power Ltd.	62.92	0.91
165	TTK Prestige Ltd.	168.97	0.21
166	Ultratech Cement Ltd.	22.54	0.51
167	Unitech Ltd.	-1.71	1.30
168	United Breweries Ltd.	39.14	1.39
169	United Phosphorus Ltd.	-0.94	0.77
170	United Spirits Ltd.	13.17	2.46
171	Videocon Industries Ltd.	6.54	1.97
172	Voltas Ltd.	56.82	0.13
173	Wipro Ltd.	25.29	0.32
174	Wockhardt Ltd.	35.96	3.57
175	Zee Entertainment Enterprises Ltd.	17.65	0.07
	Correlation		0.073
	Coefficient of determination		0.005

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**Academically yours** 

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Co-ordinator

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