APPENDIX
Appendix I: Cement Capacity 2014-15

S. No	Group UltraTech Cement Ltd	(MTPA) 66.61	Capacity Share 15.15%	Cummuliative Capacity Shar 15.15%
2	ACC Ltd	31.24	7.10%	22.25%
3	Ambuja Cement Ltd	28.42	6.46%	28.71%
4	Shree Cement	23.60	5.37%	34.08%
5	Jaiprakash Associates Ltd	18.29	4.16%	38.24%
6	Remco Cement Ltd	16.44	3.74%	41.98%
7	India Cements Ltd	15.55	3.54%	45.52%
8	Chettinad Cement	14.20	3.23%	48.74%
9	Dalmia Cement (Bharat) Ltd	14.10	3.21%	51.95%
10	Century Textiles and Industries Ltd Kesoram Industries	12.80	2.91%	54.86% 57.31%
12	Lafarge India(P) Ltd	10.75	2.35%	59.66%
13	Birla Corp. Ltd	9.60	2.18%	61.84%
14	J.K. Cement Ltd	9.41	2.14%	63.98%
15	JK Lakshmi Cement Ltd	8.44	1.92%	65.90%
16	Zuari Cement Ltd	7.80	1.77%	67.68%
17	Penna Cement Industries Ltd	7.00	1.59%	69.27%
18	Prism Cement Ltd	7.00	1.59%	70.86%
19	OCL India Ltd	6.70	1.52%	72.38%
20	JSW	6.40	1.46%	73.84%
21	Binani Cement	6.25	1.42%	75.26%
23	Heidelberg Cement (I) Ltd Reliance Cement	6.21 5.80	1.41%	76.67% 77.99%
24	My Home Industries Ltd	5.20	1.18%	79.17%
25	Bharathi Cement	5.00	1.14%	80.31%
26	Orient Paper and Industries Ltd	5.00	1.14%	81.45%
27	C.C.I. Ltd	3.89	0.88%	82.33%
28	Sanghi Industries Ltd	3.74	0.85%	83.18%
29	Rani Cement Ltd	3.66	0.83%	84.02%
30	Mangalam Cement Ltd	3.25	0.74%	84.75%
31	Wonder Cement	3.25	0.74%	85.49%
32	Sri Jaya Jyoti Cement	3.20	0.73%	86.22%
33 34	Murli Industries	3.00 2.90	0.68%	86.90% 87.56%
35	Mehta Group Asian Cement	2.83	0.64%	88.21%
36	Cement Manufacturing Co. Ltd	2.80	0.64%	88.84%
37	Kalburgi Cement	2.75	0.63%	89.47%
38	Sagar Cement	2.75	0.63%	90.09%
39	Andhra Cements	2.56	0.58%	90.68%
40	The K.C.P. Ltd	2.34	0.53%	91.21%
41	Deccan Cement	2.30	0.52%	91.73%
42	KJS Cement	2.27	0.52%	92.25%
43	Bhilai Jaypee (G)	2.20	0.50%	92.75%
44	Bokaro Jaypee (G)	2.10	0.48%	93.23%
46	Calcon Cement Adhunik Cement	1.72	0.34%	93.62% 93.96%
47	Swasata Cements Ltd	1.50	0.34%	94.30%
48	Bhavya Cement	1.40	0.32%	94.62%
49	Panyam Cement	1.35	0.31%	94.92%
50	Anjani Portland Cement	1.30	0.30%	95.22%
51	Hi-Bond Cement	1.20	0.27%	95.49%
52	Shree Digvijay-Sikka	1.08	0.25%	95.74%
53	Amrit Cement	1.00	0.23%	95.97%
54	BMM Cement	1.00	0.23%	96.19%
55	Green Valley Industries	1.00	0.23%	96.42%
56 57	Hills Cement Company Kalvannur Cement	1.00	0.23%	96.65% 96.88%
58	Kalyanpur Cement Sparta Cement & Infra.	1.00	0.23%	97.10%
59	Sri Chabra Cement	1.00	0.23%	97.10%
60	NCL Industries	0.99	0.23%	97.56%
61	Parasakti Cement	0.94	0.21%	97.77%
62	Bheema Cement	0.90	0.20%	97.97%
63	Megha Tech	0.70	0.16%	98.13%
64	Meghalaya Cement Ltd	0.65	0.15%	98.28%
65	Keerthi Industries	0.62	0.14%	98.42%
66	Malabar Cements	0.62	0.14%	98.56%
67	Tamil Nadu Cement	0.60	0.14%	98.70%
68	Bagalkot Cement & Ind Ltd	0.60	0.14%	98.84%
69	Udaipur Cement	0.60	0.14%	98.97% 99.09%
70 71	JUD Cements Tata Chemicals Limited	0.50	0.11%	99.09%
72	Toshali Cements	0.44	0.11%	99.20%
73	J & K Cement Ltd.	0.40	0.09%	99.39%
74	RNB Cement	0.40	0.09%	99.48%
75	Shriram Cement	0.40	0.09%	99.57%
76	Purbanchal Cement	0.36	0.08%	99.65%
77	Barak Valley Cement	0.33	0.08%	99.73%
78	Burnpur Cement	0.33	0.08%	99.80%
79	Khyber Industries (P) Ltd	0.33	0.08%	99.88%
80	Mancherial Cement	0.33	0.08%	99.95%
81	Mawmluh Cherra Cement Ltd.	0.20	0.05%	100.00%
	Total	439.74	100.00%	13

Source: Indian Minerals Year Book 2015 (Published in 2017)

Appendix II: Annual Price Index

Annual Price Index: Lime and Calcium Carbonate, Clinker and Ordinary Portland Cement

Price Index with base 2011-12 = 100

Price Index With	h base $2011-12 = 1$	100					
Month	Lime and calcium carbonate (Limestone)	Clinker	Ordinary Portland cement (Cement)	Month	Lime and calcium carbonate (Limestone)	Clinker	Ordinary Portland cement (Cement)
Apr-12	102.0	112.0	110.6	Apr-13	103.7	107.6	102.5
May-12	102.1	110.3	109.1	May-13	103.7	106.8	103.6
Jun-12	103.2	115.2	109.2	Jun-13	103.2	109.9	106.0
Jul-12	103.6	116.8	111.3	Jul-13	105.3	109.1	105.8
Aug-12	103.9	112.4	111.2	Aug-13	103.2	108.0	103.4
Sep-12	102.6	116.8	106.8	Sep-13	104.2	109.5	103.5
Oct-12	103.3	110.9	107.0	Oct-13	104.4	106.1	104.8
Nov-12	102.8	107.2	107.4	Nov-13	104.7	105.7	103.3
Dec-12	102.7	105.8	102.4	Dec-13	105.3	104.4	102.4
Jan-13	102.5	109.1	103.3	Jan-14	103.7	108.2	102.6
Feb-13	103.2	110.2	104.3	Feb-14	105.5	108.6	106.4
Mar-13	104.2	108.2	103.8	Mar-14	105.1	108.2	107.4
Month	Lime and calcium carbonate (Limestone)	Clinker	Ordinary Portland cement (Cement)	Month	Lime and calcium carbonate (Limestone)	Clinker	Ordinary Portland cement (Cement)
Apr-16	104.8	111.2	106.3	Apr-17	108.4	111.4	110.5
May-16	105.5	111.4	107.8	May-17	108.8	115.6	113.7
Jun-16	105.6	112.5	109.0	Jun-17	109.9	118.3	112.9
Jul-16	106.0	112.4	109.4	Jul-17	110.4	116.3	111.3
Aug-16	107.1	114.1	108.9	Aug-17	109.8	112.9	111.1
Sep-16	106.3	116.3	110.0	Sep-17	110.7	116.5	110.9
Oct-16	104.7	117.7	109.5	Oct-17	111.3	119.4	109.2
Nov-16	106.3	111.1	108.2	Nov-17	111.4	117.1	110.2
Dec-16	107.9	111.0	106.4	Dec-17	112.6	116.2	110.4
Jan-17	108.0	111.1	105.9	Jan-18	113.3	117.2	111.2
Feb-17	108.4	111.8	105.7				
Mar-17	107.3	109.4	106.7				
Month	Lime and calcium carbonate (Limestone)	Clinker	Ordinary Portland cement (Cement)	Month	Lime and calcium carbonate (Limestone)	Clinker	Ordinary Portland cement (Cement)
Apr-14	106.5	102.9	109.8	Apr-15	105.1	110.2	108.3
May-14	105.5	104.8	107.9	May-15	107.3	109.1	105.8
Jun-14	105.9	107.4	110.4	Jun-15	108.7	109.2	105.2
Jul-14	106.5	111.7	114.0	Jul-15	108.5	112.1	106.6
Aug-14	107.7	111.5	112.0	Aug-15	109.2	114.5	107.4
Sep-14	107.8	111.4	109.5	Sep-15	105.8	113.2	110.3
Oct-14	108.2	112.7	109.5	Oct-15	106.5	115.4	110.1
Nov-14	106.2	110.7	106.7	Nov-15	106.7	114.7	109.0
Dec-14	105.9	112.6	107.9	Dec-15	107.7	114.8	107.0
Jan-15	106.2	109.8	112.0	Jan-16	107.2	113.2	104.5
Feb-15	106.9	110.4	110.2	Feb-16	106.2	113.7	103.6
Mar-15	104.6	111.1	110.7	Mar-16	105.9	113.3	106.0

Source: Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India

Appendix II: Annual Price Index

Annual Price Index: Lime and Calcium Carbonate, Clinker and Ordinary Portland Cement

Price Index with base 2011-12 = 100

Month	Lime and calcium carbonate (Limestone)	Clinker	Ordinary Portland cement (Cement)	Month	Lime and calcium carbonate (Limestone)	Clinker	Ordinary Portland cement (Cement)
Apr-16	104.8	111.2	106.3	Apr-17	108.4	111.4	110.5
May-16	105.5	111.4	107.8	May-17	108.8	115.6	113.7
Jun-16	105.6	112.5	109.0	Jun-17	109.9	118.3	112.9
Jul-16	106.0	112.4	109.4	Jul-17	110.4	116.3	111.3
Aug-16	107.1	114.1	108.9	Aug-17	109.8	112.9	111.1
Sep-16	106.3	116.3	110.0	Sep-17	110.7	116.5	110.9
Oct-16	104.7	117.7	109.5	Oct-17	111.3	119.4	109.2
Nov-16	106.3	111.1	108.2	Nov-17	111.4	117.1	110.2
Dec-16	107.9	111.0	106.4	Dec-17	112.6	116.2	110.4
Jan-17	108.0	111.1	105.9	Jan-18	113.3	117.2	111.2
Feb-17	108.4	111.8	105.7				
Mar-17	107.3	109.4	106.7				

Appendix III: KM publications 1980-2014

Country	Publications
China	668
US	363
UK	253
Malaysia	138
Australia	106
Taiwan	102
Spain	87
Italy	75
Germany	66
Canada	61
Iran	56
Netherland	50
India	49
France	49
Finland	45

Adapted from (Akhavan et al., 2016), page 1253

Section 1 - Knowledge Management Practices & Processes impacting Competitive Advantage

Please indicate (by circling the appropriate box) the extent to which you agree or disagree with the statement

1	2	3	4	5	6	7
Strongly	Disagree	Slightly	Neither	Slightly	Agree	Strongly
Disagree		Disagree	Agree	Agree		Agree
		_	Nor	_		_
			Disagree			

1. Category: Human resource (HR) practices of Knowledge Management

No.	Statement							
	My organization		Circle	e the ap	prop	riate l	юх	
C11A	Provides formal training programs to train teams on "How to manage dealers effectively?"	1	2	3	4	5	6	7
C12A	Rewards team with non-monetary incentive to maintain inventory at dealer godowns as per the demand of the dealers.	1	2	3	4	5	6	7
C13A	Imparts formal training to logistics team on "How to arrange fleet of varying capacities as per the demand of the dealer.	1	2	3	4	5	6	7
C14A	Rotates sales team every three years to a different market to provide experience of managing various types of dealer.	1	2	3	4	5	6	7
C15A	Has a small advertising team that engages effectively with multiple advertising agencies for advertisement of our cement.	1	2	3	4	5	6	7
C16A	Encourages sales team to attend seminars, symposia and so on to learn newer ways of sales promotion.	1	2	3	4	5	6	7
C17A	Recognizes the sales team that understands the fluctuation of cement price in the market.	1	2	3	4	5	6	7
C18A	Imparts formal training to sales team on "how to do" a cost benefit analysis before introducing a discount.	1	2	3	4	5	6	7
C19A	Recognizes sales team that negotiates competitive credit terms with the dealers.	1	2	3	4	5	6	7
C110A	Imparts formal training to sales team on "How to improve dealer satisfaction"?	1	2	3	4	5	6	7

Please indicate (by circling the appropriate box) the extent to which you agree or disagree with the statement

1	2	3	4	5	6	7
Strongly	Disagree	Slightly	Neither	Slightly	Agree	Strongly
Disagree	_	Disagree	Agree	Agree	_	Agree
_		_	Nor	_		_
			Disagree			

2. Category: Information Technology (IT) practices of Knowledge Management

No.	Statement							
	My organization		Ci	rcle the	appro	priate l	box	
C21A	Provides IT solutions to update and retrieve information about dealers of my market.	1	2	3	4	5	6	7
C22A	Provides IT solutions to give visibility of inventory at dealer godowns to sales and logistics teams.	1	2	3	4	5	6	7
C23A	Provides IT support to install global positioning system (GPS) in their trucks to track their movement.	1	2	3	4	5	6	7
C24A	Provides sales team with IT solutions and gadgets to acquire from dealers their cement requirement and price at which they sell cement to the retailers.	1	2	3	4	5	6	7
C25A	Provides sales team with IT solution and gadgets to capture advertisement of the competitors.	1	2	3	4	5	6	7
C26A	Provides IT solution to analyze dealer wise sales pattern to devise sales promotion strategies.	1	2	3	4	5	6	7
C27A	Provides IT solutions to analyze past and predict future price trends.	1	2	3	4	5	6	7
C28A	Provides IT solutions to ascertain impact of discount on the organizations profitability.	1	2	3	4	5	6	7
C29A	Provides IT solutions to change credit terms as agreed with the dealers.	1	2	3	4	5	6	7
C210A	Provides IT solutions to respond with speed to variety of dealer queries, such as: sales, payment, discounts, dispatch of cement etc	1	2	3	4	5	6	7

Section 1 - Knowledge Management Practices & Processes impacting Competitive Advantage

Please indicate (by circling the appropriate box) the extent to which you agree or disagree with the statement

1	2	3	4	5	6	7
Strongly	Disagree	Slightly	Neither	Slightly	Agree	Strongly
Disagree		Disagree	Agree	Agree		Agree
			Nor			
			Disagree			

3. Category: Process to acquire knowledge

No.	Statement							
	My organization		Ci	rcle the	appro	priate l	box	
C31A	Has a process for acquiring information about all cement dealers operating in my market.	1	2	3	4	5	6	7
C32A	Has a process for sales team to generate the cement requirement of our dealers in my market.	1	2	3	4	5	6	7
C33A	Has a process for logistics team to find available capacity of various modes (Rail, Road and Sea) for cement dispatch.		2	3	4	5	6	7
C34A	Has a process for sales team to identify upcoming construction projects in my market.		2	3	4	5	6	7
C35A	Has a process for sales team to capture the advertisement of cement products of our competitors.	1	2	3	4	5	6	7
C36A	Has a process for sales team to understand sales promotion strategies of competitors.	1	2	3	4	5	6	7
C37A	Has a process for sales team to obtain daily market wise, dealer wise, product wise prices of cement per bag.	1	2	3	4	5	6	7
C38A	Has a process for sales team to know the acceptable discount per bag of cement by the dealer in the market.	1	2	3	4	5	6	7
C39A	Has a process for sales team to know the acceptable credit terms for dealer to sell our cement in the market.	1	2	3	4	5	6	7
C310A	Has a process to know the service level expectations of dealer from our organization in terms of response time; to announce price change, to announce discounts and to fulfill orders.	1	2	3	4	5	6	7

Section 1 - Knowledge Management Practices & Processes impacting Competitive Advantage

Please indicate (by circling the appropriate box) the extent to which you agree or disagree with the statement

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Slightly Disagree	Neither Agree Nor Disagree	Slightly Agree	Agree	Strongly Agree

4. Category: Process to share knowledge

No.	Statement							
	My organization		Ci	rele the	e appro	priate	box	
C41 A	Has a process for sharing information about all cement dealers in my market with my peers, subordinates and superiors.	1	2	3	4	5	6	7
C42A	Has a process for sales team to exchange information about cement required by our dealers in my market with our logistics team.	1	2	3	4	5	6	7
C43A	Has a process for logistics team to share the available capacity of various modes (Rail, Road and Sea) for cement dispatch within logistics team (Regional, Zonal, Plant and Central levels).	1	2	3	4	5	6	7
C44A	Has a process for sales team to share the identified cement projects in my market with peers, subordinates and superiors.	1	2	3	4	5	6	7
C45A	Has a process for sale team to share the captured advertisement of our competitors with our advertisement team.	1	2	3	4	5	6	7
C46A	Has a process for sales team to share the sales promotion strategies of competitors with their peers, subordinates and superiors.	1	2	3	4	5	6	7
C47A	Has a process for sales team to share daily market wise, dealer wise, product wise prices of cement per bag.	1	2	3	4	5	6	7
C48A	Has a process for sales team to share the cost benefit analysis of the acceptable discount per bag of cement with peers, subordinates and superiors.	1	2	3	4	5	6	7
C49A	Has a process for sales team to share the cost benefit analysis of the acceptable credit terms for dealer to sell cement in the market with peers, subordinates and superiors.	1	2	3	4	5	6	7
C410A	Has a process to communicate across relevant functions (marketing & sales, finance & accounts, logistics) the service level expectations of dealer from our organization in terms of response time; to announce price change, to announce discounts and to fulfill orders.	1	2	3	4	5	6	7

Section 1 - Knowledge Management Practices & Processes impacting Competitive Advantage

Please indicate (by circling the appropriate box) the extent to which you agree or disagree with the statement

1	2	3	4	5	6	7
Strongly	Disagree	Slightly	Neither	Slightly	Agree	Strongly
Disagree		Disagree	Agree	Agree		Agree
			Nor	_		_
			Disagree			

5. Category: Process to use knowledge

No.	Statement	Part A							
	My organization		Ci	rcle the	e appro	priate l	юх		
C51A	Has a process for using information about all cement dealers in my market to develop our dealer expansion strategy in my market.	1	2	3	4	5	6	7	
C52A	Has a process for logistics team to integrate cement required by our dealers in all the markets and develop a distribution plan.	1.	2	3	4	5	6	7	
C53A	Has a process for logistics team to develop the cement dispatch plan as per the available cement dispatch capacity through various modes (Rail, Road and Sea) and cement demand of the dealers in the market.	1	2	3	4	5	6	7	
C54A	Has a process for sales team to use the information about upcoming construction projects to develop the marketing plan to promote our cement in my market.	1	2	3	4	5	6	7	
C55A	Has a process for our advertisement team to understand advertisement of competitors and develop new advertisement for our cement products.	1	2	3	4	5	6	7	
C56A	Has a process for sales team to develop new and effective sales promotion strategy.	1	2	3	4	5	6	7	
C57A	Has a process for sales team to develop a market wise and product wise pricing strategy.	1	2	3	4	5	6	7	
C58A	Has a process for sales team to develop a discount structure beneficial to both the dealer and my organization.	1	2	3	4	5	6	7	
C59A	Has a process for sales team to design credit terms beneficial to both the dealer and my organization.	1	2	3	4	5	6	7	
C510A	Has a process for relevant functions (marketing & sales, finance & accounts, logistics) to internally prepare for serving the expected service levels of dealers from our organization in terms of response time; to announce price change, to announce discounts and to fulfill orders.	1	2	3	4	5	6	7	

Section 1 - Knowledge Management Practices & Processes impacting Competitive Advantage

Please indicate (by circling the appropriate box) the extent to which you agree or disagree with the statement

1	2	3	4	5	6	7
Strongly	Disagree	Slightly	Neither	Slightly	Agree	Strongly
Disagree		Disagree	Agree	Agree		Agree
			Nor			
			Disagree			

6. Category: Process to apply knowledge

No.	Statement							
	My organization		Cir	cle the	approp	riate b	OX	
C61A	Has a process to apply our dealer expansion strategy to expand our dealer network in my market.	1	2	3	4	5	6	7
C62A	Has a process for logistics team to distribute cement as per developed distribution plan to our dealers in all the markets.	1	2	3	4	5	6	7
C63A	Has a process for logistics team to dispatch the cement through various modes (Rail, Road and Sea) as per cement dispatch plan.	1	2	3	4	5	6	7
C64A	Has a process for sales team to implement the developed marketing plan to promote cement in my market.	1	2	3	4	5	6	7
C65A	Has a process for our advertisement team to respond with the new advertisement of our cement products.	1	2	3	4	5	6	7
C66A	Has a process for sales team to timely implement developed sales promotion strategy.	1	2	3	4	5	6	7
C67A	Has a process for sales team to respond to market with the developed product wise pricing strategy.	1	2	3	4	5	6	7
C68A	Has a process for sales team to announce the developed discount structure in the market.	1	2	3	4	5	6	7
C69A	Has a process for sales team to announce the designed discount structure in the market.	1	2	3	4	5	6	7
C610A	Has a process to actually fulfill the expected service levels of dealers from our organization in terms of response time; to announce price change, to announce discounts and to fulfill orders.	1	2	3	4	5	6	7

7. Category: Competitiveness

No.	Statement							
	Competitiveness compared to our key competitors Circle the appropriate to							
C11A	Our organization has a greater market share	1	2	3	4	5	6	7
C12A	Our organization is growing faster	1	2	3	4	5	6	7
C13A	Our organization is more profitable	1	2	3	4	5	6	7
C14A	Our organization is more innovative	1	2	3	4	5	6	7
C15A	Our organization is more responsive to market demand	1	2	3	4	5	6	7

Section 2 - Personal information of the survey participant

1. What is your age	? (Tick	the approp	oriate category	7)					
Under 30 years		31-35 yea	rs	36-40 ye	ears		40 y	ears and above	
2. What is your edu		al qualifica	tion? (Tick the	e appropria	te categ				
Only Bachelor's o	legree		achelor's degi				Bachelor's degree with		
			Master's degree in			diploma in management			
		n	nanagement						
3. What is the name	e of you	ar cement o	organization?						
		on name	-						
4. What is size of y appropriate categor		rket (in sal	es per month o	of all ceme	nt comp	panies put	t toge	ether)? (Tick the	
Less than 10000		een 10001	Between			een 3000	-	Above 40000	
I MT	MT a	and 20000	MT and	30000	MT a	nd 40000)	MT	
1			MT MT						
	MT		MT		MT				
5. Since how many category)		you have be		or this cem		anisation?	(Tie	k the appropriate	
5. Since how many	years y	re than 3	een working fo	an 6	ent orga	than 9	(Tie	k the appropriate More than 12	
5. Since how many category)	years y		More that years an	an 6 d less	ent orga More years	than 9 and less	(Tic		
5. Since how many category)	years y Mor	re than 3	een working fo	an 6 d less	ent orga More years	than 9	? (Tic	More than 12	
5. Since how many category) Less than 3 years 6. Which market years	years y Mor year than	re than 3 rs and less a 6 years age, mentic	More that years and than 9 years	an 6 d less ears trict and st	More years than 1 ate?	than 9 and less 12 years	? (Tie	More than 12	
5. Since how many category) Less than 3 years 6. Which market your Mention do	years y Mor year than ou man. epot or	re than 3 rs and less 6 years	More that years and than 9 years	an 6 d less ears trict and st	More years than 1 ate?	than 9 and less	(Tic	More than 12	
5. Since how many category) Less than 3 years 6. Which market your Mention do	years y Mor year than	re than 3 rs and less 6 years	More that years and than 9 years	an 6 d less ears trict and st	More years than 1 ate?	than 9 and less 12 years	(Tie	More than 12	
5. Since how many category) Less than 3 years 6. Which market your Mention do	years y Mor year than than epot or t name	re than 3 s and less 6 years	More that years and than 9 years on depot or dis	an 6 d less ears trict and st	More years than I ate?	than 9 and less 12 years		More than 12 years	
5. Since how many category) Less than 3 years 6. Which market you Mention do district	years y Mor year than bu man epot or t name	re than 3 s and less 6 years	More that years and than 9 years on depot or discretion other than	an 6 d less ears trict and st	More years than late?	than 9 and less 12 years		More than 12	
5. Since how many category) Less than 3 years 6. Which market you Mention do district	years y Mor year than bu man. epot or t name d in any	re than 3 s and less 16 years age, mention y other function	More that years and than 9 years on depot or discretion other than 1 -	an 6 d less ears trict and st Mer n marketin Function	More years than 1 ate? ntion stage and s	than 9 and less 12 years ate name ales?	Func	More than 12 years	

Thank you very much for your time to complete this survey!

Appendix V: Inter-Item Correlation Matrix

Inter-Item Correlation Matrix - KMPRAHR

	C11A	C12A	C13A	C14A	C15A	C16A	C17A	C18A	C19A	C110A
C11A	1.00	0.55	0.54	0.15	0.28	0.58	0.38	0.55	0.47	0.70
C12A	0.55	1.00	0.54	0.18	0.10	0.50	0.40	0.64	0.57	0.53
C13A	0.54	0.54	1.00	0.32	0.38	0.62	0.50	0.59	0.40	0.51
C14A	0.15	0.18	0.32	1.00	0.18	0.16	0.56	0.17	0.29	0.15
C15A	0.28	0.10	0.38	0.18	1.00	0.13	0.31	0.02	0.27	0.20
C16A	0.58	0.50	0.62	0.16	0.13	1.00	0.39	0.66	0.44	0.60
C17A	0.38	0.40	0.50	0.56	0.31	0.39	1.00	0.42	0.56	0.50
C18A	0.55	0.64	0.59	0.17	0.02	0.66	0.42	1.00	0.49	0.53
C19A	0.47	0.57	0.40	0.29	0.27	0.44	0.56	0.49	1.00	0.62
C110A	0.70	0.53	0.51	0.15	0.20	0.60	0.50	0.53	0.62	1.00
a	6/9	7/9	9/9	3/9	2/9	7 /9	9/9	7/9	7 /9	7 /9
b	0.47	0.45	0.49	0.24	0.21	0.45	0.45	0.45	0.46	0.48

Inter-Item Correlation Matrix - KMPRAIT

	C21A	C22A	C23A	C24A	C25A	C26A	C27A	C28A	C29A	C210A
C21A	1.00	0.57	0.47	0.35	0.51	0.44	0.39	0.34	0.40	0.41
C22A	0.57	1.00	0.53	0.41	0.48	0.61	0.59	0.53	0.42	0.52
C23A	0.47	0.53	1.00	0.46	0.69	0.58	0.34	0.34	0.39	0.38
C24A	0.35	0.41	0.46	1.00	0.70	0.52	0.24	0.17	0.19	0.36
C25A	0.51	0.48	0.69	0.70	1.00	0.67	0.39	0.38	0.38	0.47
C22A	0.44	0.61	0.58	0.52	0.67	1.00	0.60	0.51	0.57	0.60
C27A	0.39	0.59	0.34	0.24	0.39	0.60	1.00	0.65	0.54	0.60
C28A	0.34	0.53	0.34	0.17	0.38	0.51	0.65	1.00	0.54	0.56
C29A	0.40	0.42	0.39	0.19	0.38	0.57	0.54	0.54	1.00	0.47
C210A	0.41	0.52	0.38	0.36	0.47	0.60	0.60	0.56	0.47	1.00
a	9/9	9/9	9/9	6/9	9/9	9/9	8/9	8/9	8/9	9/9
b	0.43	0.52	0.47	0.38	0.52	0.57	0.48	0.45	0.43	0.49

Appendix V

Inter-Item Correlation Matrix - KMPROACQ

	C31A	C32A	C33A	C34A	C35A	C36A	C37A	C38A	C39A	C310A
C31A	1.00	0.62	0.57	0.60	0.64	0.71	0.59	0.51	0.60	0.52
C32A	0.62	1.00	0.46	0.48	0.61	0.51	0.31	0.45	0.58	0.60
C33A	0.57	0.46	1.00	0.44	0.55	0.58	0.47	0.54	0.64	0.53
C34A	0.60	0.48	0.44	1.00	0.63	0.71	0.48	0.53	0.59	0.70
C35A	0.64	0.61	0.55	0.63	1.00	0.71	0.61	0.71	0.73	0.60
C36A	0.71	0.51	0.58	0.71	0.71	1.00	0.55	0.55	0.68	0.63
C37A	0.59	0.31	0.47	0.48	0.61	0.55	1.00	0.56	0.63	0.37
C38A	0.51	0.45	0.54	0.53	0.71	0.55	0.56	1.00	0.77	0.65
C39A	0.60	0.58	0.64	0.59	0.73	0.68	0.63	0.77	1.00	0.64
C310A	0.52	0.60	0.53	0.70	0.60	0.63	0.37	0.65	0.64	1.00
a	8/9	9/9	9/9	8/9	6/9	6/9	9/9	7/9	7/9	9/9
b	0.60	0.51	0.53	0.57	0.64	0.63	0.51	0.58	0.65	0.58

Inter-Item Correlation Matrix - KMPROSHR

	C41A	C42A	C43A	C44A	C45A	C46A	C47A	C48A	C49A	C410A
C41A	1.00	0.58	0.32	0.44	0.44	0.47	0.52	0.37	0.43	0.25
C42A	0.58	1.00	0.62	0.52	0.49	0.66	0.62	0.42	0.55	0.43
C43A	0.32	0.62	1.00	0.53	0.37	0.58	0.44	0.44	0.55	0.49
C44A	0.44	0.52	0.53	1.00	0.65	0.59	0.35	0.33	0.48	0.22
C45A	0.44	0.49	0.37	0.65	1.00	0.59	0.38	0.52	0.63	0.29
C46A	0.47	0.66	0.58	0.59	0.59	1.00	0.62	0.51	0.69	0.44
C47A	0.52	0.62	0.44	0.35	0.38	0.62	1.00	0.47	0.55	0.49
C48A	0.37	0.42	0.44	0.33	0.52	0.51	0.47	1.00	0.73	0.48
C49A	0.43	0.55	0.55	0.48	0.63	0.69	0.55	0.73	1.00	0.60
C410A	0.25	0.43	0.49	0.22	0.29	0.44	0.49	0.48	0.60	1.00

Appendix V
Inter-Item Correlation Matrix - KMPROUSE

	C51A	C52A	C53A	C54A	C55A	C56A	C57A	C58A	C59A	C510A
C51A	1.00	0.46	0.55	0.56	0.54	0.66	0.58	0.59	0.55	0.58
C52A	0.46	1.00	0.59	0.57	0.57	0.54	0.48	0.42	0.45	0.56
C53A	0.55	0.59	1.00	0.40	0.46	0.60	0.62	0.47	0.48	0.49
C54A	0.56	0.57	0.40	1.00	0.41	0.66	0.42	0.23	0.28	0.50
C55A	0.54	0.57	0.46	0.41	1.00	0.68	0.58	0.50	0.45	0.61
C56A	0.66	0.54	0.60	0.66	0.68	1.00	0.76	0.55	0.47	0.72
C57A	0.58	0.48	0.62	0.42	0.58	0.76	1.00	0.66	0.55	0.68
C58A	0.59	0.42	0.47	0.23	0.50	0.55	0.66	1.00	0.76	0.67
C59A	0.55	0.45	0.48	0.28	0.45	0.47	0.55	0.76	1.00	0.59
C510A	0.58	0.56	0.49	0.50	0.61	0.72	0.68	0.67	0.59	1.00
a	9/9	9/9	9/9	7/9	9/9	9/9	8/9	7 /9	7/9	8/9
b	0.56	0.52	0.52	0.45	0.53	0.63	0.59	0.54	0.51	0.60

Inter-Item Correlation Matrix - KMPROAPP

	C61A	C62A	C63A	C64A	C65A	C66A	C67A	C68A	C69A	C610A
C61A	1.00	0.54	0.50	0.57	0.52	0.70	0.65	0.48	0.49	0.61
C62A	0.54	1.00	0.81	0.60	0.49	0.69	0.61	0.50	0.49	0.56
C63A	0.50	0.81	1.00	0.67	0.64	0.68	0.61	0.48	0.49	0.56
C64A	0.57	0.60	0.67	1.00	0.71	0.79	0.77	0.57	0.49	0.62
C65A	0.52	0.49	0.64	0.71	1.00	0.68	0.59	0.48	0.35	0.53
C66A	0.70	0.69	0.68	0.79	0.68	1.00	0.79	0.67	0.54	0.63
C67A	0.65	0.61	0.61	0.77	0.59	0.79	1.00	0.58	0.53	0.76
C68A	0.48	0.50	0.48	0.57	0.48	0.67	0.58	1.00	0.77	0.64
C69A	0.49	0.49	0.49	0.49	0.35	0.54	0.53	0.77	1.00	0.52
C610A	0.61	0.56	0.56	0.62	0.53	0.63	0.76	0.64	0.52	1.00
a	9/9	8/9	8/9	6/9	8/9	7/9	6/9	8/9	8/9	8/9
b	0.56	0.59	0.61	0.64	0.55	0.69	0.66	0.57	0.52	0.60

Inter-Item Correlation Matrix - CA

	C71A	C72A	C73A	C74A	C75A					
C71A	1.00	0.73	0.40	0.58	0.59					
C72A	0.73	1.00	0.35	0.67	0.49					
C73A	0.40	0.35	1.00	0.46	0.18					
C74A	0.58	0.67	0.46	1.00	0.57					
C75A	0.59	0.49	0.18	0.57	1.00					
a	9/9	9/9	9/9	6/9	9/9					
b	0.57	0.56	0.35	0.57	0.46					

Appendix VI: Item Total Statistics

Appendix VI Item-Total Statistics - KMPRAHR

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Squared Multiple Correlation	Cronbach's Alpha if Item Deleted
C11A	41.3500	122.164	0.689	0.589	0.862
C12A	42.5000	122.627	0.659	0.553	0.864
C13A	41.7833	125.868	0.717	0.601	0.861
C14A	40.9500	139.506	0.323	0.357	0.887
C15A	40.7167	143.359	0.281	0.313	0.888
C16A	41.8667	120.660	0.671	0.576	0.863
C17A	41.2667	127.080	0.637	0.560	0.866
C18A	41.6500	123.553	0.676	0.614	0.863
C19A	41.6667	126.395	0.668	0.556	0.864
C110A	41.3000	121.231	0.717	0.648	0.859

Item-Total Statistics - KMPRAIT

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Squared Multiple Correlation	Cronbach's Alpha if Item Deleted
C21A	43.0500	128.014	0.589	0.427	0.893
C22A	43.8167	119.000	0.716	0.592	0.884
C23A	43.1500	120.875	0.635	0.552	0.890
C24A	43.0667	132.199	0.510	0.546	0.897
C25A	43.2167	120.884	0.712	0.724	0.885
C22A	43.4000	121.532	0.794	0.668	0.880
C27A	44.4333	123.131	0.665	0.585	0.888
C28A	44.1667	125.158	0.617	0.528	0.891
C29A	44.4500	124.319	0.589	0.455	0.893
C210A	43.3000	121.400	0.667	0.497	0.888

Appendix VI

Item-Total Statistics - KMPROACQ

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Squared Multiple Correlation	Cronbach's Alpha if Item Deleted
C31A	49.2833	102.545	0.754	0.669	0.925
C32A	49.1667	107.87	0.644	0.588	0.930
C33A	49.3833	111.257	0.663	0.488	0.9 2 9
C34A	49.5333	104.694	0.728	0.630	0.926
C35A	49.4833	102.356	0.821	0.710	0.921
C36A	49.7333	99.216	0.797	0.706	0.922
C37A	49.0167	109.712	0.633	0.548	0.930
C38A	49.3833	104.681	0.736	0.695	0.925
C39A	49.2667	101.860	0.829	0.756	0.921
C310A	49.4000	102.820	0.737	0.674	0.926

Item-Total Statistics - KMPROSHR

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Squared Multiple Correlation	Cronbach's Alpha if Item Deleted
C41A	46.8833	98.478	0.562	0.436	0.902
C42A	46.8667	96.795	0.741	0.637	0.892
C43A	47.0833	97.434	0.644	0.555	0.897
C44A	47.2167	96.783	0.619	0.573	0.898
C45A	47.2667	92.267	0.657	0.600	0.897
C46A	47.3667	89.253	0.782	0.658	0.888
C47A	46.5000	97.305	0.661	0.546	0.896
C48A	47.6000	95.600	0.642	0.558	0.897
C49A	47.3500	91.825	0.800	0.736	0.887
C410A	47.1667	99.294	0.541	0.459	0.903

Appendix VI

Item-Total Statistics - KMPROUSE

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Squared Multiple Correlation	Cronbach's Alpha if Item Deleted
C51A	45.6833	105.135	0.734	0.599	0.914
C52A	46.5667	108.826	0.661	0.586	0.918
C53A	46.1167	107.901	0.665	0.546	0.918
C54A	46.1167	109.868	0.570	0.620	0.922
C55A	46.6167	103.698	0.691	0.563	0.916
C56A	46.0833	97.840	0.828	0.795	0.908
C57A	46.0833	101.230	0.777	0.695	0.911
C58A	46.0833	104.586	0.702	0.720	0.916
C59A	46.2833	107.020	0.655	0.620	0.918
C510A	46.2167	101.054	0.788	0.661	0.911

Item-Total Statistics - KMPROAPP

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Squared Multiple Correlation	Cronbach's Alpha if Item Deleted	
C61A	49.7000	90.925	0.692	0.582	0.931	
C62A	50.1000	89.210	0.733	0.716	0.9 2 9	
C63A	49.8333	88.718	0.762	0.759	0.927	
C64A	49.7500	88.394	0.809	0.739	0.925	
C65A	50.0000	89.559	0.686	0.615	0.932	
C66A	49.6000	88.617	0.867	0.819	0.922	
C67A	49.6333	91.795	0.824	0.775	0.925	
C68A	49.5667	93.097	0.711	0.744	0.930	
C69A	49.7500	91.716	0.630	0.658	0.934	
C610A	49.6167	90.952	0.747	0.682	0.928	

Appendix VI

Item-Total Statistics - CA

	Scale Mean if Item Deleted Scale Variance if Item Deleted Corrected Item-Total Correlation		Squared Multiple Correlation	Cronbach's Alpha if Item Deleted	
C71A	23.1333	14.829	0.748	0.623	0.774
C72A	22.8167	16.118	0.736	0.623	0.779
C73A	23.2167	19.698	0.423	0.270	0.859
C74A	22.9167	15.908	0.734	0.578	0.779
C75A	23.1167	18.173	0.581	0.449	0.822

Appendix VII: Total Variance Explained

Appendix VII

Total Variance Explained - KMPRAHR

Component		Initial Eigenvalues			Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
Component	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	
1	4.923	49.232	49.232	4.923	49.232	49.232	4.213	42.126	42.126	
2	1.320	13.201	62.433	1.320	13.201	62.433	2.031	20.307	62.433	
3	0.944	9.441	71.874							
4	0.715	7.146	79.02							
5	0.546	5.461	84.481							
6	0.443	4.434	88.915							
7	0.344	3.441	92.356							
8	0.305	3.049	95.405							
9	0.255	2.547	97.952							
10	0.205	2.048	100.000							

Extraction Method: Principal Component

Analysis.

Total Variance Explained - KMPRAIT

	,	'4'-1 E'	-1		ction Sums	of Squared	Rota	tion Sums o	of Squared
		nitial Eigen	ivaiues		Loading	gs	Loadings		
Component	Total	% of	Cumulative	Total	% of	Cumulative	Total	% of	Cumulative
	Total	Variance	%	Total	Variance	%	Total	Variance	%
1	5.293	52.933	52.933	5.293	52.933	52.933	3.486	34.856	34.856
2	1.335	13.355	66.288	1.335	13.355	66.288	3.143	31.432	66.288
3	0.703	7.035	73.323						
4	0.608	6.084	79.408						
5	0.498	4.977	84.385						
6	0.415	4.151	88.536						
7	0.387	3.868	92.404						
8	0.321	3.206	95.61						
9	0.263	2.634	98.244						
10	0.176	1.756	100.000						

Extraction Method: Principal Component

Analysis

Appendix VII
Total Variance Explained - KMPROACQ

0	Ini	tial Eigenva	alues	Extraction Sums of Squared Loadings			
Component	Т-4-1	% of	Cumulative	T-4-1	% of	Cumulative	
	Total	Variance	%	Total	Variance	%	
1	6.255	62.547	62.547	6.255	62.547	62.547	
2	0.798	7.985	70.532				
3	0.642	6.424	76.956				
4	0.609	6.093	83.049				
5	0.513	5.129	88.178				
6	0.32	3.197	91.374				
7	0.263	2.629	94.003				
8	0.244	2.443	96.446				
9	0.223	2.227	98.673				
10	0.133	1.327	100.000				

Extraction Method: Principal Component

Analysis.

a. Only one component was extracted. The solution cannot be rotated.

Total Variance Explained - KMPROSHR

Component	Ini	Initial Eigenvalues			Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative	Total	% of Variance	Cumulativ e %	
1	5.471			5.471			3.273			
2	1.038	10.377	65.085	1.038	10.377	65.085	3.236	32.356	65.085	
3	0.845	8.448	73.533							
4	0.747	7.468	81.001							
5	0.454	4.541	85.542							
6	0.431	4.311	89.853							
7	0.317	3.17	93.023							
8	0.287	2.875	95.898							
9	0.22	2.205	98.103							
10	0.19	1.897	100							

Extraction Method: Principal Component

Analysis.

Appendix VII
Total Variance Explained - KMPROUSE

Component	Initial Eigenvalues		Extraction Sums of Squared			Rotation Sums of Squared			
	midai Eigenvaides			Loadings			Loadings		
	Total	% of	Cumulativ	Total	% of	Cumulativ	Total	% of	Cumulativ
		Variance	e %		Variance	e %		Variance	e %
1	5.932	59.324	59.324	5.932	59.324	59.324	3.573	35.729	35.729
2	1.058	10.576	69.90	1.058	10.576	69.900	3.417	34.170	69.900
3	0.630	6.305	76.204						
4	0.569	5.693	81.897						
5	0.554	5.539	87.436						
6	0.430	4.302	91.738						
7	0.269	2.687	94.424						
8	0.242	2.418	96.842						
9	0.179	1.793	98.636						
10	0.136	1.364	100.000						

Extraction Method: Principal Component

Analysis.

Total Variance Explained - KMPROAPP

Total Variance Explained - KWPKOAPP							
Component	Ini	tial Eigenva	alues	Extraction Sums of Squared Loadings			
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	
1	6.419	64.193	64.193	6.419	64.193	64.193	
2	0.913	9.133	73.327				
3	0.667	6.672	7 9.999				
4	0.545	5.447	85.445				
5	0.439	4.387	89.832				
6	0.339	3.389	93.221				
7	0.263	2.635	95.855				
8	0.171	1.709	97.564				
9	0.144	1.435	98.999				
10	0.100	1.001	100.000				

Extraction Method: Principal Component

Analysis.

Appendix VII
Total Variance Explained - CA

	Ini	tial Eigenvalı	1100	Extraction Sums of Squared					
Component	Ш	uai Eigeiivaii	ues	Loadings					
	Total	% of	Cumulative	Total	% of	Cumulative			
	Total	Variance	%	Total	Variance	%			
1	3.060	61.204	61.204	3.060	61.204	61.204			
2	0.835	16.702	77.906						
3	0.491	9.830	87.735						
4	0.407	8.133	95.868						
5	0.207	4.132	100.000						

Extraction Method: Principal Component

a. Only one component was extracted. The solution cannot be rotated.

PUBLICATIONS

International Journals

- Dave, Manish. Singh, Kanhaiya. Kumar, Arya. Kumar, Sachin (2017). "Knowledge Management Measures: An Empirical Investigation of Indian Cement Industry", (Journal: *Benchmarking: An International journal*) [Accepted on 20 June 2018]
- 2. Dave, Manish. Singh, Kanhaiya. Kumar, Arya. "A Framework to Link Knowledge Management, Competitive Advantage and Physical Performance in Marketing Function of an Organization", (Journal: *International Journal of Knowledge and Learning*) [Under Review]

International Conference

 Paper entitled "A knowledge framework of decision support system for higher education institutes in India" by Dave, Manish. Kumar, Arya. Presented at the 11th Indian Subcontinent Decision Sciences Institute International Conference, December 27-30, 2017 held at IIM, Tiruchirappalli

Book Chapter

1. Manish Dave and Satyendra Sharma, (2017), Chapter 32 "Knowledge management in corporate environment", published in edited book on Decision sciences for business sustainability by Excel publisher ISBN 978-93-86724-24-3

BIOGRAPHY

Candidate

Manish Dave is Assistant Vice President at Aditya Birla Group. At present he is on deputation from Aditya Birla Group to BITS Pilani to Head the Program Management Office. He received B.E. and M.B.A, degrees from Devi Ahilya Vishwavidyalaya, Indore, and later completed a one-year Senior Management Program from IIM Calcutta. He has over 20 years of experience in various sectors, such as the Cement, Education, Automobile and Petroleum. He has proven himself successful in such diverse functions as Strategy, Planning, Execution and Transformation. He has spent 19 years with the Aditya Birla Group, 12 of those in the cement business, wherein he has contributed to the development of long-term, as well as short-term strategies and plans. For the last 7 years he has been on deputation to BITS Pilani, where he has managed excellence and transformation programs in the field of Higher Education. He has had brief stints spread over a duration of two years with three other organizations: Hindustan Motors (Material Management), BPCL (Petroleum Sales) and Zee Interactive Learning Systems (e-entrance exam).

At BITS Pilani, he has worked closely with the Leadership and over 200 faculty members from across 4 campuses – Pilani, Goa, Hyderabad and Dubai, and off campus locations namely –Pune, Delhi, Bangalore, Chennai and Kolkata. He deeply involved in Mission 2012 and Mission 2015 programs as part of Vision 2020 which has helped BITS Pilani bring in addition focus on research, modern pedagogy and processes related to faculty recruitment, admissions, infrastructure. He also worked with the leadership of Work Integrated Learning Program (WILP), a 30-year-old industry engagement program, in transforming the organization into a professionally managed unit that is more responsive to learners in the industry and their employers. Since March 2016, Manish heads the newly established Institutional Knowledge Analysis (IKA) cell at BITS Pilani to promote evidence-based decision making at all levels in the University.

Supervisor

Prof. Arya Kumar is Professor in the area of Economics and Finance and Dean Alumni Relations at Birla Institute of Technology & Science, Pilani. He has served as Director at Lal Bahadur Shastri Institute of Management New Delhi between November 2014 and December 2016. Prior to this he was Dean Student Welfare Division and Chief Entrepreneurship Development & IPR Unit BITS, Pilani. He was also coordinating the activities of Technology Business Incubator and Center for Entrepreneurial Leadership at BITS, Pilani. He did his M A (Hons.) Economics in **first class first** in the year 1977 and PhD in the area of **Financial Management of Higher Education in India- with an Intensive Study of BITS Pilani** in the year 1982, both from BITS-Pilani. He has a diversified experience for more than 39 years of serving in educational institutions, research organizations, banks and financial institutions.

His basic interests lie in Entrepreneurship, Strategic Management, Knowledge Management, Values in Management, Capital Markets and Financial Management. He has published four books in the area of Entrepreneurship, General Management, Ethics in Management, and Grassroots Entrepreneurship. He has published more than 50 research papers in national and international journals and has presented papers in international and national conferences in India and abroad. He has delivered more than 60 invited talks and chaired sessions in National and International conferences. Four students have successfully completed their PhD under his supervision and another three are pursuing in their advance stages. He has examined more than twelve PhD theses of different universities.

He has undertaken research projects in the area of entrepreneurship development funded by **National Entrepreneurship Network**; Strategies to Meet Manpower Requirements for Power Sector up to 2020 funded by **NSTMIS**, **Department of Science & Technology**, Government of India; educational excellence funded by **Aditya Birla Group** and successfully got grants for setting up Technology Business Incubator at BITS Pilani and for extending seed fund support to start-ups under **Technology Incubation & Development of Entrepreneurs (TIDE)** in the areas of Electronics and ICT.

He has served as Nominee Director on the Boards of a number of companies; expert member **Biotechnology Industry Research Assistance Council** (BIRAC), Department of Biotechnology Government of India; expert member of **UPSC**, member of **Governing Body of STIDE** of Central University of Rajasthan, member of committees for selection of faculty in different institutions, member of Boards of Studies of different universities.

He is a member of the National Entrepreneurship Network (NEN) India Faculty Advisory Board. He has been honoured with distinguished faculty award in recognition and appreciation of his dedication, interest, enthusiasm and attitude in accomplishing his assigned mission of teaching by BITSAA International in 2011, Global excellence award for outstanding contribution to management education—2012 by Management Teachers Consortium (MTC) and conferred with Entrepreneurship Educator and Mentor Special Jury Award for promotion of Entrepreneurship Education by NEN in collaboration with Ministry of Skill and Entrepreneurship Development, British Council and Intel.

Co-Supervisor

Dr Kanhaiya Singh is Senior Fellow (Chief Economist) at the National Council of Applied Economic Research, New Delhi. Dr Singh, is PhD in Economics from the Australian National University Canberra, Australia and also holds a Batchelor's Degree in Technology with Gold Medal from Indian School of Mines Dhanbad and a Masters Degree in Business Administration from R.A. Poddar Institute of Management Jaipur.

Dr. Singh started his career as Engineer and served Public Sector and Private Sector industries, and Central Government in senior positions. He was Deputy Director in the Department of Industrial Policy and Promotion before switching over to the area of Research in Economics. He has been having working relationship with various organizations including World Health Organisation (WFO); the Earth Institute of Columbia University; the Asian Development Bank; International Monetary Fund; Department for International Development (DFID), British High Commission; Canada International Development Agency (CIDA); Department of Foreign Affairs and Trade (DFAT), Government of Australia; FASID, Tokyo; and various organs of Government of India and Corporates.

Dr. Singh has interest in diverse fields of Economic Research and has produced Reports and Papers covering areas of Macroeconomic Modelling and Policy Analysis, Applied Econometrics and Forecasting, Input-Output Analysis, Sector Specific Analysis, Environmental Economics, Agriculture Trade & Food Security, Growth and Development Economics, Defence Economics, International Economics and Regional Integration.

He has several articles to his credit, published in international and national journals including Journal of Policy Modelling, Resource Policy, Brookings Working Paper Series, Journal of Asia Pacific Economy, Asia Pacific Economic Literature, International Journal of Social Economics, Asian Economic *Papers*, Journal of World Economic Review, Review of Applied Economics, Indian Economic Journal, the India Policy Forum, Economic and Political Weekly, and Margin the Journal of Applied Economic Research. He has also contributed several articles in edited books published by international publishers such as Edward Elgar, IMF, Oxford University Press, and Palgrave-Macmillan. Viewership and Downloads of his scholarly works runs in several

thousands. He also contributes to the policy debates by writing on issues of far reaching importance to the economic development in newspapers, periodicals and reviews.

Dr Singh has produced several reports of national importance including State Development Reports for Planning Commission of India, Comprehensives Economic Analysis of Defence Research and Development Organisation, Unaccounted Income and Wealth, Both inside and Outside India', Sponsored by the Ministry of Finance, Economic Impact of Indira Gandhi International Airport, and most Recently, Assessment of Employment impact of proposed large scale investment in Railways. Dr Singh has visited several countries Australia, United States, Japan, France, China, South Korea, Singapore, Thailand, Philippines with the purpose academic discourses and advisory meetings. Dr. Singh has been visiting fellow at the Foundation for Advanced Studies on International Development (FASID)/ GRIPS, Tokyo (March 2003, September 2007, and February 2009).



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