

5. CMA's Selection Process & identification of new CMA's

5.1 Identification of possible contenders for Counter Magnet Areas

The consultants have analyzed in-migration to the National Capital Territory of Delhi (NCTD) from all the 593 districts in India as per Census of India, 2001. The total in-migration during the last decade i.e. 1991-2001 to the NCTD is 2172760, highest migration i.e. 64373 from district Bulandshahr in Uttar Pradesh and lowest migration i.e. 2 migrants from district Kolasib in Mizoram, the average migration per district being 3664 persons. There are two districts of India not sending any migrant to Delhi namely South Garo hills of Meghalya and Diu of Daman & Diu UT. The top 100 districts account for 1616562 (74.40%) of total in-migration to NCTD. The selection of counter magnet areas is majorly an exercise related to checking and diverting in-migration, which is coming to Delhi; thus the headquarters of the top 100 districts which are the areas of major out-migration to the extent of about 74 percent, are considered as the appropriate contenders for establishment of counter magnet Areas. The 100 districts are located in fifteen different states. *Refer Table 5.1*

Table 5.1: State wise list of top 100 districts sending maximum migrants to NCTD (74% of total migrants)

Sl. No.	State	Districts	Total migration to Delhi (1991-2001)
1	Uttar Pradesh (41 districts)	Aligarh	50068
2		Azamgarh	33381
3		Agra	28970
4		Allahabad	18015
5		Bareilly	17180
6		Bijnor	19217
7		Budaun	25412
8		Bulandshahr	64373
9		Baghpat	18846
10		Ballia	13175
11		Basti	16241
12		Deoria	9805
13		Etah	36477
14		Etawah	22177
15		Faizabad	18135
16		Farrukhabad	15046
17		Firozabad	8699
18		Gautam Buddha Nagar	8020
19		Ghazipur	8690
20		Ghaziabad	37418
21		Gonda	15187
22		Gorakhpur	30961
23		Hardoi	10803
24		Jaunpur	15031
25		Jhansi	6631
26		Kanpur Nagar	24314
27		Lucknow	14545
28		Mahoba	5880
29		Mainpuri	13836



Sl. No.	State	Districts	Total migration to Delhi (1991-2001)
30		Mathura	18131
31		Meerut	44274
32		Moradabad	21362
33		Muzaffarnagar	25180
34		Pratapgarh	15858
35		Rae Bareli	12800
36		Rampur	5840
37		Saharanpur	8993
38		Shahjahanpur	6763
39		Sultanpur	21290
40		Unnao	8207
41	Varanasi	9820	
42	Rajasthan (4 districts)	Alwar	16907
43		Bharatpur	7402
44		Dausa	6176
45		Jaipur	13885
46	Haryana (12 districts)	Bhiwani	8016
47		Faridabad	16577
48		Gurgaon	16708
49		Hisar	6894
50		Jhajjar	18859
51		Jind	7573
52		Karnal	5725
53		Mahendragarh	5752
54		Panipat	7085
55		Rewari	7448
56		Rohtak	25797
57		Sonipat	28053
58	Uttarakhand (5 districts)	Almora	23956
59		Dehradun	9764
60		Garhwal	31506
61		Nainital	9795
62		Tehri Garhwal	7066
63	Punjab (4 districts)	Amritsar	9524
64		Gurdaspur	5916
65		Jalandhar	6056
66		Ludhiana	7179
67	Bihar (20 districts)	Begusarai	14972
68		Bhagalpur	17734
69		Bhojpur	11626
70		Darbhanga	38842
71		Gaya	13028
72		Gopalganj	7150
73		Katihar	7479
74		Khagaria	7419
75		Madhubani	42299
76		Munger	9340
77		Muzaffarpur	25930
78		Nalanda	12798
79		Patna	31903
80		Purba Champaran	15139

Sl. No.	State	Districts	Total migration to Delhi (1991-2001)
81		Purnia	7090
82		Saharsa	9206
83		Samastipur	28533
84		Sitamarhi	19744
85		Siwan	21743
86		Vaishali	11101
87	Chandigarh UT	Chandigarh	6700
Other States (13 districts scattered in 8 states)			
88	Himachal Pradesh	Kangra	9323
89	Jharkand	Chatra	32202
90		Ranchi	7140
91	Jammu & Kashmir	Srinagar	5845
92	Kerala	Kottayam	6022
93	Madhya Pradesh	Bhind	6541
94		Chhatarpur	6510
95	Maharashtra	Mumbai	11769
96	Tamil Nadu	Chennai	7723
97	West Bengal	Kolkata	28477
98		Maldah	5996
99		Medinipur	8168
100		North Twenty Four Parganas	6400

Refer Annexure IV for the 100 districts sending major migration to NCTD in descending order

5.2 Migration to Rest of NCR Districts

The constituent areas of rest of NCR are three sub-regions viz (i) Haryana sub-region comprising of Faridabad, Gurgaon, Rohtak, Sonipat, Rewari, Jhajjar, Mewat & Panipat districts; (ii) Rajasthan sub-region comprising of Alwar district; (iii) Uttar Pradesh sub-region comprising of Meerut, Ghaziabad, Gautam Buddha Nagar, Bulandshahr & Baghpat districts. Migration to rest of NCR districts during 1991-2001 is 2548129 persons. Top hundred districts sending major migration to rest of NCR districts provide 2071269 migrants i.e. 81.29 percent of the total migration. *Refer table 5.2*

Table 5.2: Top 100 districts of major migration to rest of NCR districts (in descending order)

Sl. No.	List of Top 100 Districts with Migration to Delhi	State	Migration to rest of NCR	% of migration during 1991-2001
1	Bulandshahr *	Uttar Pradesh	202061	7.93
2	Alwar *	Rajasthan	190262	7.47
3	Ghaziabad *	Uttar Pradesh	148804	5.84
4	Meerut *	Uttar Pradesh	148801	5.84
5	Sonipat *	Haryana	95735	3.76
6	Gurgaon *	Haryana	90008	3.53
7	Faridabad *	Haryana	85817	3.37
8	Aligarh	Uttar Pradesh	73899	2.90
9	Muzaffarnagar	Uttar Pradesh	70993	2.79
10	Rohtak *	Haryana	67757	2.66
11	Baghpat *	Uttar Pradesh	66956	2.63
12	Jhajjar *	Haryana	53886	2.11
13	Gautam Buddha Nagar *	Uttar Pradesh	42685	1.68
14	Panipat *	Haryana	37175	1.46
15	Mathura	Uttar Pradesh	36204	1.42
16	Bharatpur	Rajasthan	31417	1.23
17	Rewari *	Haryana	29214	1.15



Sl. No.	List of Top 100 Districts with Migration to Delhi	State	Migration to rest of NCR	% of migration during 1991-2001
18	Bhiwani	Haryana	25324	0.99
19	Jind	Haryana	22649	0.89
20	Mahendragarh	Haryana	19381	0.76
21	Jaipur	Rajasthan	19367	0.76
22	Karnal	Haryana	18754	0.74
23	Etah	Uttar Pradesh	15052	0.59
24	Moradabad	Uttar Pradesh	13500	0.53
25	Agra	Uttar Pradesh	13268	0.52
26	Budaun	Uttar Pradesh	12819	0.50
27	Patna	Bihar	12755	0.50
28	Saharanpur	Uttar Pradesh	12269	0.48
29	Siwan	Bihar	12266	0.48
30	Hisar	Haryana	11740	0.46
31	Gorakhpur	Uttar Pradesh	11683	0.46
32	Garhwal	Uttarakhand	11295	0.44
33	Bijnor	Uttar Pradesh	10643	0.42
34	Kanpur Nagar	Uttar Pradesh	10118	0.40
35	Allahabad	Uttar Pradesh	9737	0.38
36	Azamgarh	Uttar Pradesh	9555	0.37
37	Etawah	Uttar Pradesh	8972	0.35
38	Ballia	Uttar Pradesh	8939	0.35
39	Dausa	Rajasthan	8629	0.34
40	Almora	Uttarakhand	8542	0.34
41	Janjgir - Champa	Chhattisgarh	8476	0.33
42	Pratapgarh	Uttar Pradesh	8387	0.33
43	Kolkata	West Bengal	8254	0.32
44	Madhubani	Bihar	8180	0.32
45	Bareilly	Uttar Pradesh	8108	0.32
46	Sikar	Rajasthan	7789	0.31
47	Darbhangha	Bihar	7601	0.30
48	Nadia	West Bengal	7110	0.28
49	Sultanpur	Uttar Pradesh	7025	0.28
50	Lucknow	Uttar Pradesh	6982	0.27
51	Samastipur	Bihar	6665	0.26
52	Munger	Bihar	6575	0.26
53	Nalanda	Bihar	6378	0.25
54	Bhagalpur	Bihar	6165	0.24
55	Deoria	Uttar Pradesh	6162	0.24
56	Chandigarh	Chandigarh UT	5897	0.23
57	Hathras	Uttar Pradesh	5880	0.23
58	Jhunjhunun	Rajasthan	5817	0.23
59	Farrukhabad	Uttar Pradesh	5748	0.23
60	Mainpuri	Uttar Pradesh	5436	0.21
61	Banda	Uttar Pradesh	5314	0.21
62	Faizabad	Uttar Pradesh	5258	0.21
63	Gopalganj	Bihar	5157	0.20
64	Dehradun	Uttarakhand	4883	0.19
65	Hardwar	Uttarakhand	4836	0.19
66	Varanasi	Uttar Pradesh	4765	0.19
67	Bilaspur	Chhattisgarh	4731	0.19
68	Kaithal	Haryana	4713	0.18
69	Hardoi	Uttar Pradesh	4450	0.17
70	Ghazipur	Uttar Pradesh	4450	0.17
71	Raipur	Chhattisgarh	4333	0.17
72	Ambala	Haryana	4309	0.17

Sl. No.	List of Top 100 Districts with Migration to Delhi	State	Migration to rest of NCR	% of migration during 1991-2001
73	Rae Bareli	Uttar Pradesh	4294	0.17
74	Koch Bihar	West Bengal	4272	0.17
75	Nainital	Uttrakhand	4223	0.17
76	Firozabad	Uttar Pradesh	4000	0.16
77	Gaya	Bihar	3981	0.16
78	Gonda	Uttar Pradesh	3957	0.16
79	Jaunpur	Uttar Pradesh	3891	0.15
80	Muzaffarpur	Bihar	3813	0.15
81	Amritsar	Punjab	3697	0.15
82	Begusarai	Bihar	3653	0.14
83	Saran	Bihar	3633	0.14
84	Purba Champaran	Bihar	3604	0.14
85	Mumbai	Maharashtra	3563	0.14
86	Chhatarpur	Madhya Pradesh	3524	0.14
87	Unnao	Uttar Pradesh	3481	0.14
88	Ludhiana	Punjab	3479	0.14
89	Kurukshetra	Haryana	3370	0.13
90	Rampur	Uttar Pradesh	3217	0.13
91	Jyotiba Phule Nagar	Uttar Pradesh	3066	0.12
92	Buxar	Bihar	2979	0.12
93	Basti	Uttar Pradesh	2937	0.12
94	Ajmer	Rajasthan	2902	0.11
95	Jhansi	Uttar Pradesh	2887	0.11
96	Unspecified District	Rajasthan	2874	0.11
97	Bhojpur	Bihar	2872	0.11
98	Shahjahanpur	Uttar Pradesh	2798	0.11
99	Uttar Dinajpur	West Bengal	2796	0.11
100	Sitamarhi	Bihar	2741	0.11
Migration from top 20 districts (1-20)			1539028	60.40
Migration from next 20 districts (21-40)			239903	9.41
Migration from next 20 districts (41-60)			138635	5.44
Migration from Next 20 districts (61-80)			89630	3.52
Migration from Next 20 districts (81-100)			64073	2.51
Total migration from Top 100 districts			2071269	81.29
Migration from other districts			476860	18.71
Total migration to rest of NCR			2548129	100.00

* Districts located within NCR

Refer Annexure V for list of top 119 districts sending migrants to Delhi & rest of NCR in descending order of total migration to NCR

It is also observed that top hundred districts sending migrants to Delhi and rest of NCR districts are mostly common i.e. 81 out of 100 districts are the same. These 81 common districts comprise 34,36,058 total migrants to rest of NCR districts plus NCTD which is 72.78% of total migrants. Remaining districts comprises 12,84,831 migrants (27.22 %). Refer Table 5.3

Table 5.3: Migration pattern to Delhi & Rest of NCR Districts

	Migration to Delhi (A)	Migration to rest of NCR districts (B)	Total (A+B)
Migration from 81 common districts	14,53,989	19,82,069	34,36,058
Percentage of total migration	66.92	77.79	72.78
Migration from other districts of India	7,18,771	5,66,060	12,84,831
Percentage of total migration	33.08	22.21	27.22
Total migration	21,72,760	25,48,129	47,20,889

Table 5.4: List of top 119 districts including 81 common districts sending major migrants to NCTD and rest of NCR

Sl. No.	Top 100 Districts Sending Maximum Migration to Delhi	State	Migration to Delhi (A)	Migration to rest of NCR Districts (B)	Total (A+B)
I List of 81 common districts sending migration to Delhi & rest of NCR					
1	Bulandshahr *	Uttar Pradesh	64373	202061	266434
2	Aligarh	Uttar Pradesh	50068	73899	123967
3	Meerut *	Uttar Pradesh	44274	148801	193075
4	Madhubani	Bihar	42299	8180	50479
5	Darbhanga	Bihar	38842	7601	46443
6	Ghaziabad *	Uttar Pradesh	37418	148804	186222
7	Etah	Uttar Pradesh	36477	15052	51529
8	Azamgarh	Uttar Pradesh	33381	9555	42936
9	Patna	Bihar	31903	12755	44658
10	Garhwal	Uttarakhand	31506	11295	42801
11	Gorakhpur	Uttar Pradesh	30961	11683	42644
12	Agra	Uttar Pradesh	28970	13268	42238
13	Samastipur	Bihar	28533	6665	35198
14	Kolkata	West Bengal	28477	8254	36731
15	Sonapat *	Haryana	28053	95735	123788
16	Muzaffarpur	Bihar	25930	3813	29743
17	Rohtak *	Haryana	25797	67757	93554
18	Budaun	Uttar Pradesh	25412	12819	38231
19	Muzaffarnagar	Uttar Pradesh	25180	70993	96173
20	Kanpur Nagar	Uttar Pradesh	24314	10118	34432
21	Almora	Uttarakhand	23956	8542	32498
22	Etawah	Uttar Pradesh	22177	8972	31149
23	Siwan	Bihar	21743	12266	34009
24	Moradabad	Uttar Pradesh	21362	13500	34862
25	Sultanpur	Uttar Pradesh	21290	7025	28315
26	Sitamarhi	Bihar	19744	2741	22485
27	Bijnor	Uttar Pradesh	19217	10643	29860
28	Jhajjar *	Haryana	18859	53886	72745
29	Baghpat *	Uttar Pradesh	18846	66956	85802
30	Faizabad	Uttar Pradesh	18135	5258	23393
31	Mathura	Uttar Pradesh	18131	36204	54335
32	Allahabad	Uttar Pradesh	18015	9737	27752
33	Bhagalpur	Bihar	17734	6165	23899
34	Bareilly	Uttar Pradesh	17180	8108	25288
35	Alwar *	Rajasthan	16907	190262	207169
36	Gurgaon *	Haryana	16708	90008	106716
37	Faridabad *	Haryana	16577	85817	102394



Sl. No.	Top 100 Districts Sending Maximum Migration to Delhi	State	Migration to Delhi (A)	Migration to rest of NCR Districts (B)	Total (A+B)
38	Basti	Uttar Pradesh	16241	2937	19178
39	Pratapgarh	Uttar Pradesh	15858	8387	24245
40	Gonda	Uttar Pradesh	15187	3957	19144
41	Purba Champaran	Bihar	15139	3604	18743
42	Farrukhabad	Uttar Pradesh	15046	5748	20794
43	Jaunpur	Uttar Pradesh	15031	3891	18922
44	Begusarai	Bihar	14972	3653	18625
45	Lucknow	Uttar Pradesh	14545	6982	21527
46	Jaipur	Rajasthan	13885	19367	33252
47	Mainpuri	Uttar Pradesh	13836	5436	19272
48	Ballia	Uttar Pradesh	13175	8939	22114
49	Gaya	Bihar	13028	3981	17009
50	Rae Bareli	Uttar Pradesh	12800	4294	17094
51	Nalanda	Bihar	12798	6378	19176
52	Mumbai	Maharashtra	11769	3563	15332
53	Bhojpur	Bihar	11626	2872	14498
54	Hardoi	Uttar Pradesh	10803	4450	15253
55	Varanasi	Uttar Pradesh	9820	4765	14585
56	Deoria	Uttar Pradesh	9805	6162	15967
57	Nainital	Uttarakhand	9795	4223	14018
58	Dehradun	Uttarakhand	9764	4883	14647
59	Amritsar	Punjab	9524	3697	13221
60	Munger	Bihar	9340	6575	15915
61	Saharanpur	Uttar Pradesh	8993	12269	21262
62	Firozabad	Uttar Pradesh	8699	4000	12699
63	Ghazipur	Uttar Pradesh	8690	4450	13140
64	Unnao	Uttar Pradesh	8207	3481	11688
65	Gautam Buddha Nagar *	Uttar Pradesh	8020	42685	50705
66	Bhiwani	Haryana	8016	25324	33340
67	Jind	Haryana	7573	22649	30222
68	Rewari *	Haryana	7448	29214	36662
69	Bharatpur	Rajasthan	7402	31417	38819
70	Ludhiana	Punjab	7179	3479	10658
71	Gopalganj	Bihar	7150	5157	12307
72	Panipat *	Haryana	7085	37175	44260
73	Hisar	Haryana	6894	11740	18634
74	Shahjahanpur	Uttar Pradesh	6763	2798	9561
75	Chandigarh	Chandigarh UT	6700	5897	12597
76	Jhansi	Uttar Pradesh	6631	2887	9518
77	Chhatarpur	Madhya Pradesh	6510	3524	10034



Sl. No.	Top 100 Districts Sending Maximum Migration to Delhi	State	Migration to Delhi (A)	Migration to rest of NCR Districts (B)	Total (A+B)
78	Dausa	Rajasthan	6176	8629	14805
79	Rampur	Uttar Pradesh	5840	3217	9057
80	Mahendragarh	Haryana	5752	19381	25133
81	Karnal	Haryana	5725	18754	24479
Sub-total of 81 districts I			1453989	1982069	3436058
II List of remaining 19 districts sending major migration to Delhi					
82	Chatra	Jharkand	32202	2068	34270
83	Vaishali	Bihar	11101	2699	13800
84	Kangra	Himachal Pradesh	9323	2226	11549
85	Saharsa	Bihar	9206	2053	11259
86	Medinipur	West Bengal	8168	1158	9326
87	Chennai	Tamil Nadu	7723	1582	9305
88	Katihar	Bihar	7479	2097	9576
89	Khagaria	Bihar	7419	2170	9589
90	Ranchi	Jharkand	7140	2004	9144
91	Purnia	Bihar	7090	2547	9637
92	Tehri Garhwal	Uttrakhand	7066	1731	8797
93	Bhind	Madhya Pradesh	6541	1224	7765
94	North Twenty Four Parganas	West Bengal	6400	1080	7480
95	Jalandhar	Punjab	6056	2572	8628
96	Kottayam	Kerala	6022	560	6582
97	Maldah	West Bengal	5996	2087	8083
98	Gurdaspur	Punjab	5916	2085	8001
99	Mahoba	Uttar Pradesh	5880	1721	7601
100	Srinagar	Jammu & Kashmir	5845	1891	7736
Sub-total of 19 districts of Delhi II			162573	35555	198128
III List of remaining 19 districts sending major migration to Rest of NCR Districts					
101	Janjgir - Champa	Chhattisgarh	99	8476	8575
102	Sikar	Rajasthan	4295	7789	12084
103	Nadia	West Bengal	2528	7110	9638
104	Hathras	Uttar Pradesh	4847	5880	10727
105	Jhunjhunun	Rajasthan	4170	5817	9987
106	Banda	Uttar Pradesh	3835	5314	9149
107	Hardwar	Uttrakhand	5185	4836	10021
108	Bilaspur	Chhattisgarh	4980	4731	9711
109	Kaithal	Haryana	2837	4713	7550
110	Raipur	Chhattisgarh	2709	4333	7042
111	Ambala	Haryana	4548	4309	8857
112	Koch Bihar	West Bengal	1572	4272	5844
113	Saran	Bihar	726	3633	4359

Sl. No.	Top 100 Districts Sending Maximum Migration to Delhi	State	Migration to Delhi (A)	Migration to rest of NCR Districts (B)	Total (A+B)
114	Kurukshetra	Haryana	1855	3370	5225
115	Jyotiba Phule Nagar	Uttar Pradesh	4212	3066	7278
116	Buxar	Bihar	4693	2979	7672
117	Ajmer	Rajasthan	4199	2902	7101
118	Unspecified District	Rajasthan	4295	2874	7169
119	Uttar Dinajpur	West Bengal	2651	2796	5447
Sub-total of 19 districts of rest of NCR III			64236	89200	153436
Total migration from 119 districts (I+II+III)			1680798	2106824	3787622
* Districts located within NCR					

5.3 Contender cities for proposed counter magnet areas

The district headquarters/cities identified as contenders for proposed counter magnet areas by selecting district headquarters of top 100 districts out of total 119 districts (i. 81 common districts sending major migrants to Delhi & rest of NCR districts; ii. 19 districts sending migration to Delhi and iii. 19 other districts sending migration to rest of NCR districts) (*Refer table 5.5*). All the 119 districts sending major migration to Delhi & rest of NCR districts are arranged in descending order of total migration to Delhi & rest of NCR. District headquarters of top 100 districts sending major migration to Delhi and rest of NCR districts have been considered as potential contenders for counter magnet areas (CMA's). The short listing of 100 cities/towns out of 119 identified cities/towns is based on the migration analysis from all the identified districts. It is observed that top 100 districts contribute around 3/4th of the total migration to NCTD and rest of NCR districts. *Refer Table 5.5 & 5.6*

Table 5.5: Migration pattern for Delhi & rest of NCR districts

	Migration to Delhi		Migration to rest of NCR districts		Total	
	No of migrants	%	No of migrants	%	No of migrants	%
Migration from top 100 districts	1602294	73.74	2050190	80.46	3652484	77.37
Migration from remaining top 19 districts	78504	3.61	56634	2.22	135138	2.86
Total migration from top 119 districts	1680798	77.36	2106824	82.68	3787622	80.23
Migration from rest of the country	491962	22.64	441305	17.32	933267	19.77
Total migration	2172760	100.00	2548129	100.00	4720889	100.00

Refer annexure I & II for migration from top 100 districts to Delhi & NCR in descending order

Table 5.6: List of contender cities in descending order of migration to NCTD

Sl. No.	Top 100 Districts Sending Maximum Migration to Delhi	State	Migration to Delhi during 1991-2001
1	Bulandshahr *	Uttar Pradesh	64373
2	Aligarh	Uttar Pradesh	50068
3	Meerut *	Uttar Pradesh	44274
4	Madhubani	Bihar	42299
5	Darbhanga	Bihar	38842
6	Ghaziabad *	Uttar Pradesh	37418
7	Etah	Uttar Pradesh	36477
8	Azamgarh	Uttar Pradesh	33381
9	Chatra	Jharkand	32202
10	Patna	Bihar	31903



Sl. No.	Top 100 Districts Sending Maximum Migration to Delhi	State	Migration to Delhi during 1991-2001
11	Garhwal	Uttrakhand	31506
12	Gorakhpur	Uttar Pradesh	30961
13	Agra	Uttar Pradesh	28970
14	Samastipur	Bihar	28533
15	Kolkata	West Bengal	28477
16	Sonipat *	Haryana	28053
17	Muzaffarpur	Bihar	25930
18	Rohtak *	Haryana	25797
19	Budaun	Uttar Pradesh	25412
20	Muzaffarnagar	Uttar Pradesh	25180
21	Kanpur Nagar	Uttar Pradesh	24314
22	Almora	Uttrakhand	23956
23	Etawah	Uttar Pradesh	22177
24	Siwan	Bihar	21743
25	Moradabad	Uttar Pradesh	21362
26	Sultanpur	Uttar Pradesh	21290
27	Sitamarhi	Bihar	19744
28	Bijnor	Uttar Pradesh	19217
29	Jhajjar *	Haryana	18859
30	Baghpat *	Uttar Pradesh	18846
31	Faizabad	Uttar Pradesh	18135
32	Mathura	Uttar Pradesh	18131
33	Allahabad	Uttar Pradesh	18015
34	Bhagalpur	Bihar	17734
35	Bareilly	Uttar Pradesh	17180
36	Alwar *	Rajasthan	16907
37	Gurgaon *	Haryana	16708
38	Faridabad *	Haryana	16577
39	Basti	Uttar Pradesh	16241
40	Pratapgarh	Uttar Pradesh	15858
41	Gonda	Uttar Pradesh	15187
42	Purba Champaran	Bihar	15139
43	Farrukhabad	Uttar Pradesh	15046
44	Jaunpur	Uttar Pradesh	15031
45	Begusarai	Bihar	14972
46	Lucknow	Uttar Pradesh	14545
47	Jaipur	Rajasthan	13885
48	Mainpuri	Uttar Pradesh	13836
49	Ballia	Uttar Pradesh	13175
50	Gaya	Bihar	13028



Sl. No.	Top 100 Districts Sending Maximum Migration to Delhi	State	Migration to Delhi during 1991-2001
51	Rae Bareli	Uttar Pradesh	12800
52	Nalanda	Bihar	12798
53	Mumbai	Maharashtra	11769
54	Bhojpur	Bihar	11626
55	Vaishali	Bihar	11101
56	Hardoi	Uttar Pradesh	10803
57	Varanasi	Uttar Pradesh	9820
58	Deoria	Uttar Pradesh	9805
59	Nainital	Uttrakhand	9795
60	Dehradun	Uttrakhand	9764
61	Amritsar	Punjab	9524
62	Munger	Bihar	9340
63	Kangra	Himachal Pradesh	9323
64	Saharsa	Bihar	9206
65	Saharanpur	Uttar Pradesh	8993
66	Firozabad	Uttar Pradesh	8699
67	Ghazipur	Uttar Pradesh	8690
68	Unnao	Uttar Pradesh	8207
69	Medinipur	West Bengal	8168
70	Gautam Buddha Nagar *	Uttar Pradesh	8020
71	Bhiwani	Haryana	8016
72	Chennai	Tamil Nadu	7723
73	Jind	Haryana	7573
74	Katihar	Bihar	7479
75	Rewari *	Haryana	7448
76	Khagaria	Bihar	7419
77	Bharatpur	Rajasthan	7402
78	Ludhiana	Punjab	7179
79	Gopalganj	Bihar	7150
80	Ranchi	Jharkand	7140
81	Purnia	Bihar	7090
82	Panipat *	Haryana	7085
83	Tehri Garhwal	Uttrakhand	7066
84	Hisar	Haryana	6894
85	Shahjahanpur	Uttar Pradesh	6763
86	Chandigarh	Chandigarh UT	6700
87	Jhansi	Uttar Pradesh	6631
88	Chhatarpur	Madhya Pradesh	6510
89	Dausa	Rajasthan	6176
90	Rampur	Uttar Pradesh	5840

Sl. No.	Top 100 Districts Sending Maximum Migration to Delhi	State	Migration to Delhi during 1991-2001
91	Mahendragarh	Haryana	5752
92	Karnal	Haryana	5725
93	Hardwar	Uttrakhand	5185
94	Bilaspur	Chhattisgarh	4980
95	Hathras	Uttar Pradesh	4847
96	Ambala	Haryana	4548
97	Sikar	Rajasthan	4295
98	Jhunjhunun	Rajasthan	4170
99	Banda	Uttar Pradesh	3835
100	Nadia	West Bengal	2528

* Districts located within NCR
Refer map no 5.1 to 5.7

5.4 Criteria for selection of counter magnets – the sieving/scanning process

The National Capital Region Planning Board Act, 1985 empowers the Board to select in consultation with the State Government concerned, any urban area outside the National Capital Region having regard to its location, population and potential for growth to achieve the objectives of the Regional Plan. Thus the criteria for the selection process have been worked out as seven step exercise which is derived from three stage exercise as below: (Refer Chart I & II)

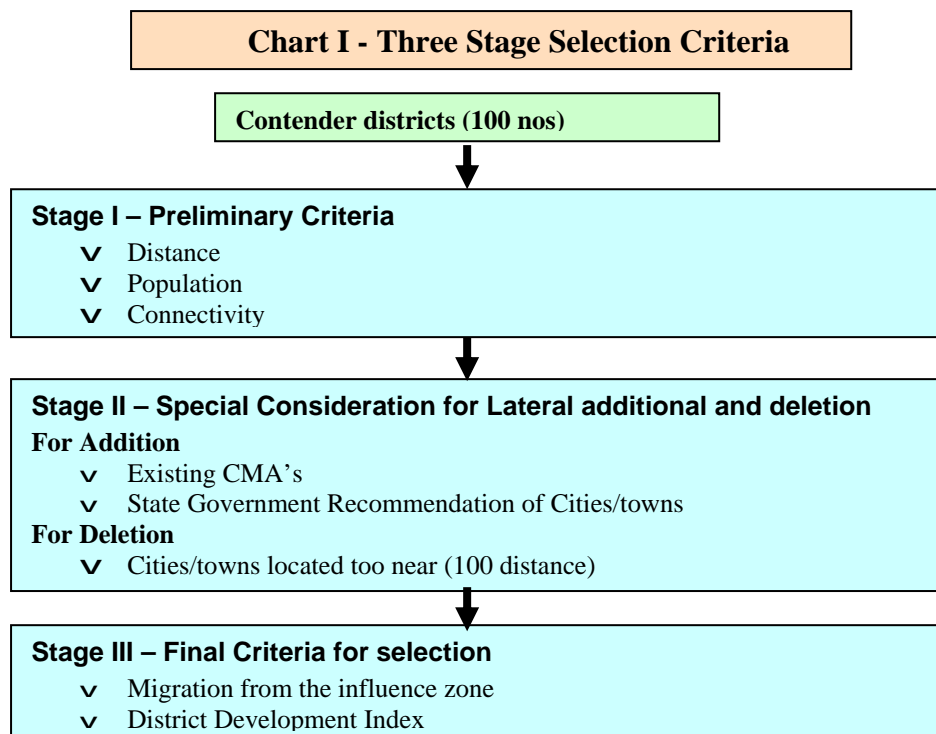
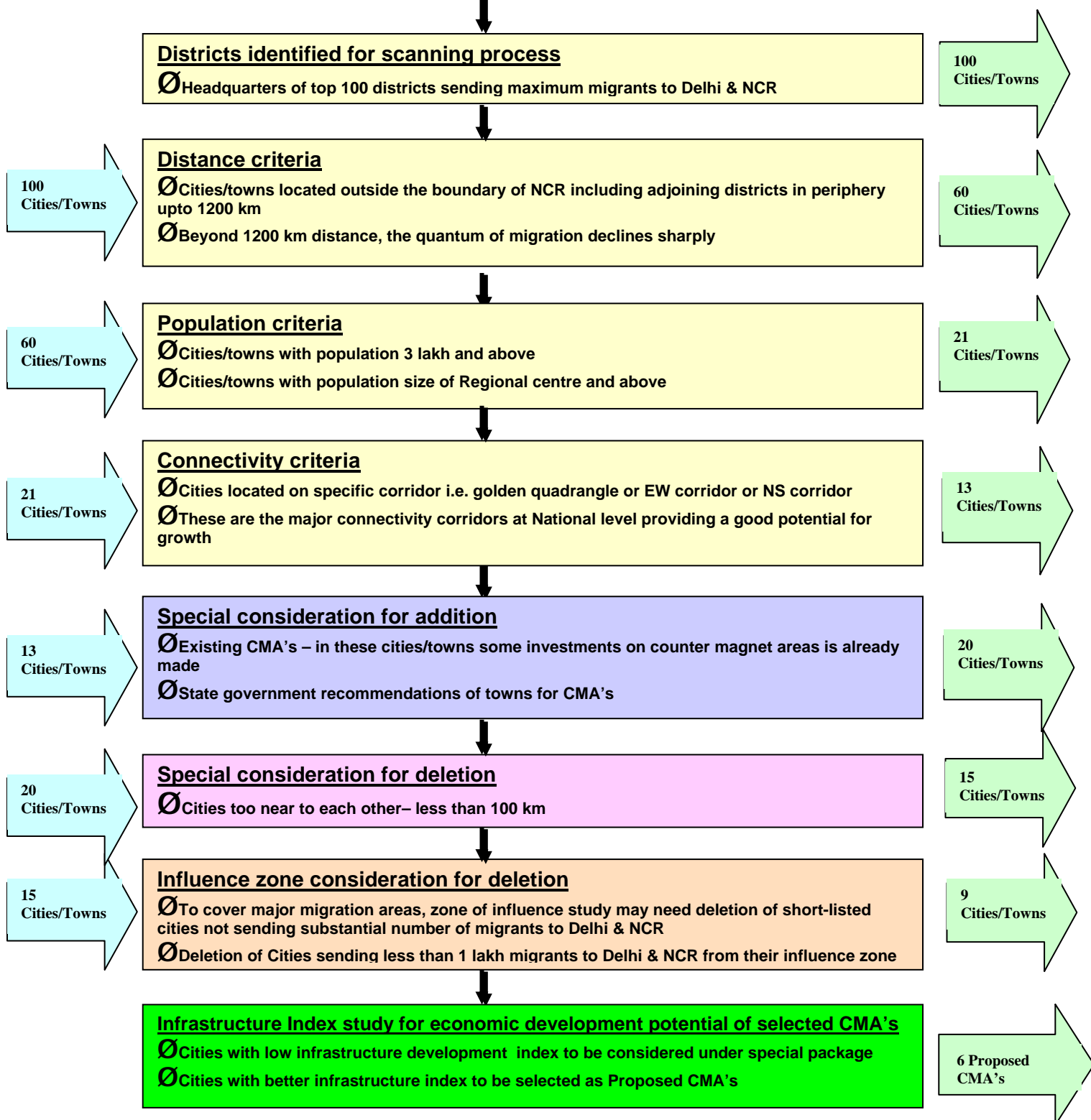


Chart II

Scanning process for selection of Counter Magnets



5.5 Stage I – Distance Criteria

The distance criteria is formed based on the following important observations

- i. Out of total top 100 districts; 90 are located in the six states sending major migrants to NCTD. These states are Uttar Pradesh, Uttrakhand, Rajasthan, Haryana, Punjab including Chandigarh UT & Bihar. Remaining 10 districts are scattered in far off areas in the rest of India. Thus for the purpose of our study, districts located in these six states have been considered for further processing. *Refer Table 5.7*

Table 5.7: State wise no of districts among top 100 districts sending migrants to Delhi

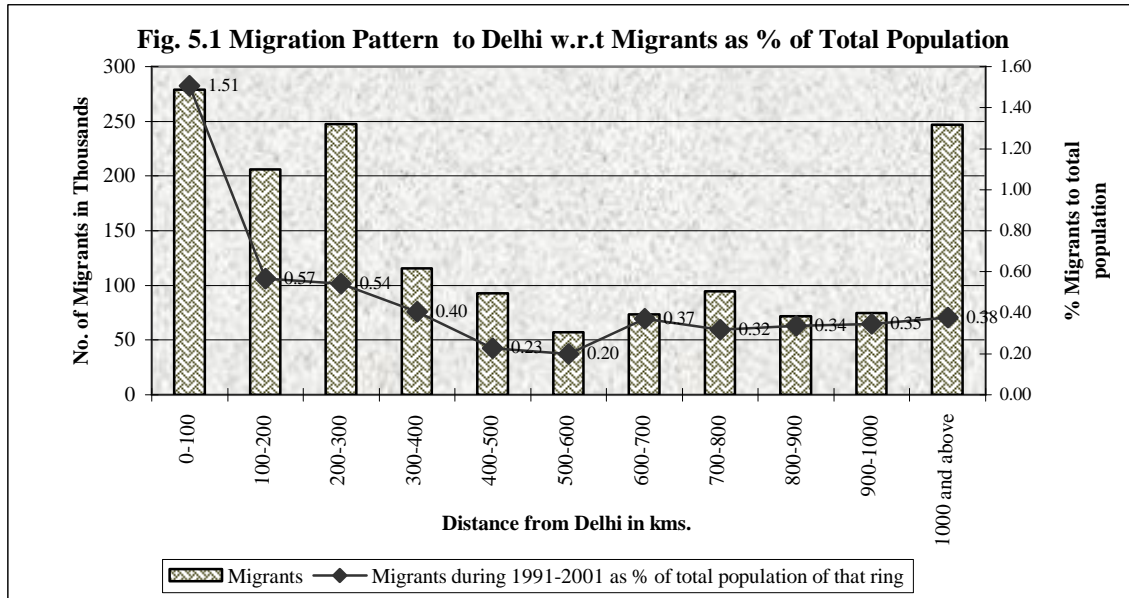
Sl. No.	State	No of Districts	Total migration to Delhi during 1991-2001
1	Uttar Pradesh	42	807853
2	Uttrakhand	6	87272
3	Haryana	13	159035
4	Rajasthan	6	52835
5	Punjab	2	16703
6	Bihar	20	353076
7	Chandigarh UT	1	6700
Sub-total of six states including Chandigarh UT		90	1483474
Other states		10	118820
Total		100	1602294

- ii. As per NCRPB Act, the Counter Magnet Areas are to be located outside the National Capital Region (NCR). It would also not be desirable to establish counter magnets right at the periphery of NCR as it would mean only an expansion of the Region. Thus along with the districts located in National capital Region, the following adjoining districts which are generally located at a distance within 20-30 km from the NCR boundary are deleted from further consideration. *Refer table 5.8 & Map 5.8*

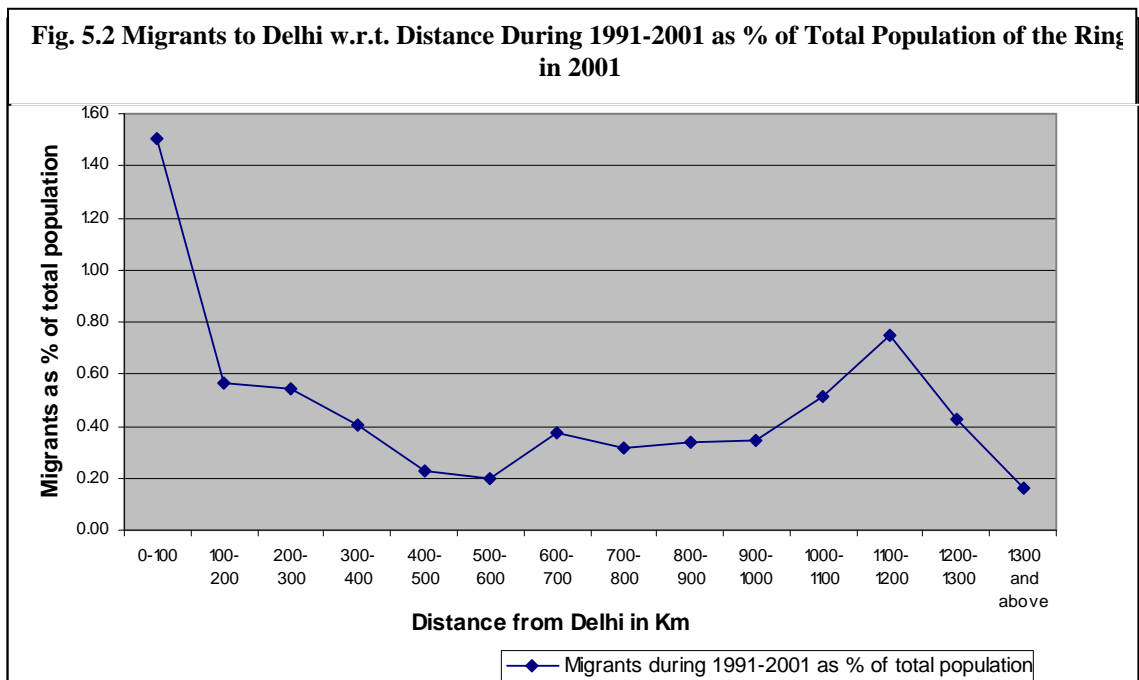
Table 5.8: Districts adjoining to the National Capital Region

Sl No.	Districts	State	Distance from Delhi	Population in 2001
1	Aligarh	Uttar Pradesh	100-200	669087
2	Muzaffarnagar	Uttar Pradesh	100-200	331668
3	Bijnor	Uttar Pradesh	100-200	90471
4	Budaun	Uttar Pradesh	200-300	148020
5	Bhiwani	Haryana	100-200	169531
6	Hisar	Haryana	100-200	263186
7	Mahendragarh	Haryana	100-200	24323
8	Jind	Haryana	100-200	135855
9	Karnal	Haryana	100-200	221236
10	Jaipur	Rajasthan	200-300	2322575
11	Bharatpur	Rajasthan	100-200	205235
12	Dausa	Rajasthan	200-300	61601

- iii. By plotting total in-migration to Delhi against distance for six states sending major migration, the in-migration in absolute term first decreases with distance upto 600 km, then again increases upto 1200 km and afterwards sharply decreases. Similar trend is seen in case of in-migration during the last decade as percentage of total population (2001). Thus, the counter magnet areas could be most appropriately established only upto a distance of 1200 km before the area of sharp decline in migration to Delhi. Refer Fig. 5.1 and 5.2



Refer Annexure VI for district-wise migration according to distance from six states to NCTD



Thus the distance criteria/search zone is (i) outside the NCR including immediate periphery districts and (ii) upto 1200 km from NCTD. The districts within NCR and periphery districts and beyond 1200 km are excluded. Refer Table 5.9 & Map 5.9 & 5.10

Table 5.9: List of cities/towns for deletion (i) within NCR, (ii) adjoining periphery cities/towns (iii) cities located beyond 1200 km radius and (iv) cities scattered in states other than six identified states

Sl. No.	Cities/towns	State	Distance from Delhi in Km	Population in 2001
I List of cities/towns located within NCR				
1	Sonipat	Haryana	Less than 100	225074
2	Rohtak	Haryana	Less than 100	294577
3	Jhajjar	Haryana	Less than 100	39002
4	Gurgaon	Haryana	Less than 100	228820
5	Faridabad	Haryana	Less than 100	1055938
6	Alwar	Rajasthan	Less than 100	266203
7	Bulandshahr	Uttar Pradesh	Less than 100	176425
8	Meerut	Uttar Pradesh	Less than 100	1161716
9	Ghaziabad	Uttar Pradesh	Less than 100	968256
10	Baghpat	Uttar Pradesh	Less than 100	36384
11	Noida/Gautam Buddha Nagar	Uttar Pradesh	Less than 100	305058
12	Rewari	Haryana	100-200	100684
13	Panipat	Haryana	100-200	354148
II List of cities/towns adjoining to NCR				
14	Aligarh	Uttar Pradesh	100-200	669087
15	Muzaffarnagar	Uttar Pradesh	100-200	331668
16	Bijnor	Uttar Pradesh	100-200	90471
17	Budaun	Uttar Pradesh	200-300	148020
18	Bhiwani	Haryana	100-200	169531
19	Hisar	Haryana	100-200	263186
20	Mahendragarh	Haryana	100-200	24323
21	Jind	Haryana	100-200	135855
22	Karnal	Haryana	100-200	221236
23	Jaipur	Rajasthan	200-300	2322575
24	Bharatpur	Rajasthan	100-200	205235
25	Dausa	Rajasthan	200-300	61601
III List of cities/towns of six identified states located beyond 1200 Km radius from Delhi				
26	Bhagalpur	Bihar	1200-1300	350133
27	Munger	Bihar	1200-1300	188050
28	Khagaria	Bihar	1200-1300	45221
29	Katihar	Bihar	1300 kms and above	190873
30	Purnia	Bihar	1300 kms and above	197211
IV List of cities/towns scattered in the states other than identified six states				
31	Kangra	Himachal Pradesh	400-500	9156
32	Chatra	Jharkand	1000-1100	42020
33	Ranchi	Jharkand	1100-1200	863495
34	Chhatarpur	Madhya Pradesh	500-600	109078

Sl. No.	Cities/towns	State	Distance from Delhi in Km	Population in 2001
35	Mumbai	Maharashtra	1300 kms and above	16434386
36	Chennai	Tamil Nadu	1300 kms and above	6560242
37	Kolkata	West Bengal	1300 kms and above	13205697
38	Medinipur	West Bengal	1300 kms and above	149769
39	Nadia	West Bengal	1300 kms and above	148709*
40	Bilaspur	Chhattisgarh	1000-1100	335293

*As per census there is no such city Nadia in West Bengal but there is city Krishnanagar UA in Nadia district

After elimination of 40 cities, 60 cities short listed for next stage scanning are as given in Table 5.10. **Refer Map 5.10**

Table 5.10: List of 60 cities selected/recommended for next stage scanning

Sl. No.	Cities located within 100-1200 km radius	State	Distance from Delhi in Km	Population in 2001
1	Almora	Uttarakhand	300-400	32358
2	Dehradun	Uttarakhand	200-300	530263
3	Garhwal	Uttarakhand	200-300	24743
4	Hardwar	Uttarakhand	200-300	220757
5	Nainital	Uttarakhand	200-300	39911
6	Tehri/Tehri Garhwal	Uttarakhand	300-400	25423
7	Agra	Uttar Pradesh	200-300	1331339
8	Allahabad	Uttar Pradesh	700-800	1042229
9	Azamgarh	Uttar Pradesh	800-900	93521
10	Ballia	Uttar Pradesh	900-1000	101465
11	Banda	Uttar Pradesh	500-600	139436
12	Bareilly	Uttar Pradesh	200-300	748353
13	Basti	Uttar Pradesh	700-800	107601
14	Deoria	Uttar Pradesh	800-900	104227
15	Etah	Uttar Pradesh	200-300	107110
16	Etawah	Uttar Pradesh	300-400	210453
17	Faizabad	Uttar Pradesh	600-700	208162
18	Farrukhabad	Uttar Pradesh	300-400	242997
19	Firozabad	Uttar Pradesh	200-300	432866
20	Ghazipur	Uttar Pradesh	800-900	103298
21	Gonda	Uttar Pradesh	600-700	120301
22	Gorakhpur	Uttar Pradesh	700-800	622701
23	Hardoi	Uttar Pradesh	300-400	112486
24	Hathras	Uttar Pradesh	100-200	126355
25	Jaunpur	Uttar Pradesh	700-800	160055
26	Jhansi	Uttar Pradesh	400-500	460278
27	Kanpur Nagar	Uttar Pradesh	400-500	2715555
28	Lucknow	Uttar Pradesh	500-600	2245509
29	Mainpuri	Uttar Pradesh	200-300	104851
30	Mathura	Uttar Pradesh	100-200	323315
31	Moradabad	Uttar Pradesh	100-200	641583
32	Pratapgarh	Uttar Pradesh	600-700	12411
33	Rae Bareli	Uttar Pradesh	500-600	169333
34	Rampur	Uttar Pradesh	200-300	281494
35	Saharanpur	Uttar Pradesh	100-200	455754
36	Shahjahanpur	Uttar Pradesh	300-400	321885
37	Sultanpur	Uttar Pradesh	600-700	100065
38	Unnao	Uttar Pradesh	400-500	144662
39	Varanasi	Uttar Pradesh	800-900	1203961
40	Chandigarh	Chandigarh UT	200-300	808515
41	Amritsar	Punjab	400-500	1003917

Sl. No.	Cities located within 100-1200 km radius	State	Distance from Delhi in Km	Population in 2001
42	Ludhiana	Punjab	300-400	1398467
43	Ambala	Haryana	100-200	307595
44	Jhunjhunun	Rajasthan	200-300	100485
45	Sikar	Rajasthan	200-300	185925
46	Begusarai	Bihar	1100-1200	107623
47	Bhojpur	Bihar	1000-1100	203380
48	Darbhanga	Bihar	1100-1200	267348
49	Gaya	Bihar	1000-1100	394945
50	Gopalganj	Bihar	900-1000	54449
51	Madhubani	Bihar	1100-1200	66340
52	Muzaffarpur	Bihar	1000-1100	305525
53	Nalanda	Bihar	1100-1200	232071
54	Patna	Bihar	1000-1100	1697976
55	Purba Champaran	Bihar	900-1000	108428
56	Saharsa	Bihar	1100-1200	125167
57	Samastipur	Bihar	1100-1200	61998
58	Sitamarhi	Bihar	1000-1100	87279
59	Siwan	Bihar	900-1000	109919
60	Vaishali	Bihar	900-1000	119412

5.6 Stage II – Population Criteria

In terms of population, the 60 high migrating districts selected in the previous stage can be grouped into population categories as following. *Refer table 5.11 & 5.12*

Table 5.11: No of cities/towns grouped on the basis of population size

Sl. No.	Population size	No of Cities/towns
1	5 lakh & above	13
2	3 lakh to 5 lakh	8
3	1 lakh to 3 lakh	29
4	Below 1 lakh	10
Total		60

Table 5.12: List of cities/towns grouped on the basis of population size

Sl. No.	Cities/towns	State	Distance from Delhi in Km	Population in 2001
Population below 1 lakh				
1	Pratapgarh	Uttar Pradesh	600-700	12411
2	Garhwal	Uttrakhand	200-300	24743
3	Tehri/Tehri Garhwal	Uttrakhand	300-400	25423
4	Almora	Uttrakhand	300-400	32358
5	Nainital	Uttrakhand	200-300	39911
6	Gopalganj	Bihar	900-1000	54449
7	Samastipur	Bihar	1100-1200	61998
8	Madhubani	Bihar	1100-1200	66340
9	Sitamarhi	Bihar	1000-1100	87279
10	Azamgarh	Uttar Pradesh	800-900	93521
Population 1 lakh to 3 lakh				
11	Sultanpur	Uttar Pradesh	600-700	100065
12	Jhunjhunun	Rajasthan	200-300	100485
13	Ballia	Uttar Pradesh	900-1000	101465
14	Ghazipur	Uttar Pradesh	800-900	103298
15	Deoria	Uttar Pradesh	800-900	104227
16	Mainpuri	Uttar Pradesh	200-300	104851
17	Etah	Uttar Pradesh	200-300	107110

Sl. No.	Cities/towns	State	Distance from Delhi in Km	Population in 2001
18	Basti	Uttar Pradesh	700-800	107601
19	Begusarai	Bihar	1100-1200	107623
20	Purba Champaran	Bihar	900-1000	108428
21	Siwan	Bihar	900-1000	109919
22	Hardoi	Uttar Pradesh	300-400	112486
23	Vaishali	Bihar	900-1000	119412
24	Gonda	Uttar Pradesh	600-700	120301
25	Saharsa	Bihar	1100-1200	125167
26	Hathras	Uttar Pradesh	100-200	126355
27	Banda	Uttar Pradesh	500-600	139436
28	Unnao	Uttar Pradesh	400-500	144662
29	Jaunpur	Uttar Pradesh	700-800	160055
30	Rae Bareli	Uttar Pradesh	500-600	169333
31	Sikar	Rajasthan	200-300	185925
32	Bhojpur	Bihar	1000-1100	203380
33	Faizabad	Uttar Pradesh	600-700	208162
34	Etawah	Uttar Pradesh	300-400	210453
35	Hardwar	Uttarakhand	200-300	220757
36	Nalanda	Bihar	1100-1200	232071
37	Farrukhabad	Uttar Pradesh	300-400	242997
38	Darbhanga	Bihar	1100-1200	267348
39	Rampur	Uttar Pradesh	200-300	281494
Population 3 lakh to 5 lakh				
40	Muzaffarpur	Bihar	1000-1100	305525
41	Ambala	Haryana	100-200	307595
42	Shahjahanpur	Uttar Pradesh	300-400	321885
43	Mathura	Uttar Pradesh	100-200	323315
44	Gaya	Bihar	1000-1100	394945
45	Firozabad	Uttar Pradesh	200-300	432866
46	Saharanpur	Uttar Pradesh	100-200	455754
47	Jhansi	Uttar Pradesh	400-500	460278
Population 5 lakh & above				
48	Dehradun	Uttarakhand	200-300	530263
49	Gorakhpur	Uttar Pradesh	700-800	622701
50	Moradabad	Uttar Pradesh	100-200	641583
51	Bareilly	Uttar Pradesh	200-300	748353
52	Chandigarh	Chandigarh UT	200-300	808515
53	Amritsar	Punjab	400-500	1003917
54	Allahabad	Uttar Pradesh	700-800	1042229
55	Varanasi	Uttar Pradesh	800-900	1203961
56	Agra	Uttar Pradesh	200-300	1331339
57	Ludhiana	Punjab	300-400	1398467
58	Patna	Bihar	1000-1100	1697976
59	Lucknow	Uttar Pradesh	500-600	2245509
60	Kanpur Nagar	Uttar Pradesh	400-500	2715555

For establishment as counter magnet areas to NCTD in terms of population, the cities should have a population base sufficient to absorb in-migration and counter the existing forces. It would be appropriate to have cities with high population base i.e. 5 lakh and above. However, considering the population size of regional centre in the NCR Plan as 3 lakh and above, minimum population criteria of 3 lakh is accepted for selection of counter magnet areas. Based on this criteria, 21 cities/towns qualify for further scanning. **Refer Table 5.13 & Map no 5.11**

Table 5.13: List of cities/towns qualify at Stage II scanning – Population criteria

Sl. No.	Cities/towns with population 3 lakh & above	State	Population in 2001
1	Muzaffarpur	Bihar	305525
2	Ambala	Haryana	307595
3	Shahjahanpur	Uttar Pradesh	321885
4	Mathura	Uttar Pradesh	323315
5	Gaya	Bihar	394945
6	Firozabad	Uttar Pradesh	432866
7	Saharanpur	Uttar Pradesh	455754
8	Jhansi	Uttar Pradesh	460278
9	Dehradun	Uttarakhand	530263
10	Gorakhpur	Uttar Pradesh	622701
11	Moradabad	Uttar Pradesh	641583
12	Bareilly	Uttar Pradesh	748353
13	Chandigarh	Chandigarh UT	808515
14	Amritsar	Punjab	1003917
15	Allahabad	Uttar Pradesh	1042229
16	Varanasi	Uttar Pradesh	1203961
17	Agra	Uttar Pradesh	1331339
18	Ludhiana	Punjab	1398467
19	Patna	Bihar	1697976
20	Lucknow	Uttar Pradesh	2245509
21	Kanpur Nagar	Uttar Pradesh	2715555

5.7 Stage III – Connectivity and Nodality Criteria

Cities located on golden quadrangle, east-west corridor and north-south corridor have better connectivity and nodality i.e. efficient regional transport system. Migrants specially low profile and unskilled labor generally migrate to cities having more development activities which ultimately create better employment opportunities. Such cities having better road and rail connectivity are significant for goods movement and attracting economic activities; also play important role in attracting migrants at broad level and commuters at regional level. Due to locational advantage, cities located on these corridors could have large influence zone as compared to cities located off the corridor. These cities can also play a role of regional hub and help in reducing the pressure on Delhi & NCR.

Considering these aspects, cities have been further short listed on the basis of their location on golden quadrangle, east-west corridor and north-south corridor. Out of total twenty one cities, eight cities which do not have this connectivity were eliminated while thirteen cities have been recommended for their better connectivity being located either on golden quadrangle or east-west corridor or north-south corridor. *Refer table 5.14 & 5.15 and Map no 5.12*

Table 5.14: List of 8 cities not located on specific corridor i.e. Golden Quadrangle or EW corridor or NS corridor

Sl. No.	Cities not located on the major corridor	State	Distance from Delhi in Km	Population in 2001
1	Saharanpur	Uttar Pradesh	100-200	455754
2	Moradabad	Uttar Pradesh	100-200	641583
3	Bareilly	Uttar Pradesh	200-300	748353
4	Shahjahanpur	Uttar Pradesh	300-400	321885
5	Dehradun	Uttarakhand	200-300	530263
6	Chandigarh	Chandigarh UT	200-300	808515

Sl. No.	Cities not located on the major corridor	State	Distance from Delhi in Km	Population in 2001
7	Amritsar	Punjab	400-500	1003917
8	Patna	Bihar	1000-1100	1697976

Table 5.15: List of cities located on the given corridors recommended for further scanning

Sl. No.	Cities located on the major corridor	State	Distance from Delhi in Km	Population in 2001
1	Mathura	Uttar Pradesh	100-200	323315
2	Firozabad	Uttar Pradesh	200-300	432866
3	Agra	Uttar Pradesh	200-300	1331339
4	Jhansi	Uttar Pradesh	400-500	460278
5	Kanpur Nagar	Uttar Pradesh	400-500	2715555
6	Lucknow	Uttar Pradesh	500-600	2245509
7	Gorakhpur	Uttar Pradesh	700-800	622701
8	Allahabad	Uttar Pradesh	700-800	1042229
9	Varanasi	Uttar Pradesh	800-900	1203961
10	Ludhiana	Punjab	300-400	1398467
11	Ambala	Haryana	100-200	307595*
12	Muzaffarpur	Bihar	1000-1100	305525
13	Gaya	Bihar	1000-1100	394945

* Ambala includes the population of Ambala Sadar (MCI), Ambala Cantt. (CB) & Ambala (MCI)

5.8 Stage IV Special Consideration for Addition

(i) Existing CMA's (as per NCR Plan - 2001)

Within the frame of NCR Plan-2001, five existing CMA's (i.e. Hissar, Kota, Gwalior, Bareilly & Patiala) have been assigned the role of diverting migration to these cities or help in reducing migratory flow to Delhi & NCR. These existing counter magnets have been studied against the selection criteria already presented relating to migration, distance, population and connectivity.

Refer table 5.16

Table 5.16: Five existing CMA's against the selection criteria

Sl No	Cities	Among top 100 districts	Located within 100-1200 km radius	Population size 3 lakh & above	Located on selected Corridor	No of Criteria's met with
1	Hissar UA	Yes	Yes*	No	No	2
2	Patiala UA	No	Yes	Yes	No	2
3	Bareilly UA	Yes	Yes	Yes	No	3
4	Gwalior UA	No	Yes	Yes	Yes	3
5	Kota	No	Yes	Yes	Yes	3

* Hissar deleted in Stage I scanning due to the adjoining district of NCR

Note: All the above cities irrespective of their score have been included for further study.

It is observed that none of the existing CMA's meet the new worked out four step screening criteria. Considering that certain level of investment has already been made in these cities for improvement of supporting physical and social infrastructure. It would not be desirable to leave these CMA's at this stage. Therefore it is recommended to include all the five existing CMA's to the above list for further study.

(ii) Towns/cities specifically recommended by the concerned states Governments

Following five towns have been recommended by the State Governments for development as CMA's:

1. Ambala in Haryana
2. Saharanpur in Uttar Pradesh
3. Dehradun in Uttrakhand
4. Firozabad in Uttar Pradesh
5. Dholpur in Rajasthan

These towns have also been tested against the developed criteria. *Refer Table 5.17*

Table 5.17: Comparison of five cities/towns recommended by concerned State Govt.

Sl No	Cities	Among top 100 districts	Located within 100-1200 km radius	population size 3 lakh & above	located on selected Corridor	Positive factors
I Cities as recommended by concerned state Government to NCRPB						
1	Ambala	Yes	Yes	Yes	Yes	4
2	Saharanpur	Yes	Yes	Yes	No	3
3	Dehradun	Yes	Yes	Yes	No	3
4	Dhaulpur	No	Yes	No	Yes	2
5	Firozabad	Yes	Yes	Yes	Yes	4

It is observed that two out of these towns i.e. Ambala & Firozabad fulfills all the prescribed considerations. Out of the remaining towns, it is recommended that, Saharanpur & Dehradun which fulfills 3 out of 4 conditions, may be considered for further study.

5.8.1 Short listed cities for further scanning

With the above analysis, the twenty cities are listed for further study i.e. existing conditions of development and strategy for further development. *Refer Table 5.18 & Map no 5.13*

Table 5.18: List of cities short listed/qualified for further considerations

Sl. No.	Contender Cities	State	Distance from Delhi in Km
I List of cities located on golden quadrangle or east-west corridor or north-south corridor			
1	Muzaffarpur	Bihar	1000-1100
2	Gaya	Bihar	1000-1100
3	Mathura	Uttar Pradesh	100-200
4	Firozabad	Uttar Pradesh	200-300
5	Jhansi	Uttar Pradesh	400-500
6	Gorakhpur	Uttar Pradesh	700-800
7	Allahabad	Uttar Pradesh	700-800
8	Varanasi	Uttar Pradesh	800-900
9	Agra	Uttar Pradesh	200-300
10	Lucknow	Uttar Pradesh	500-600
11	Kanpur Nagar	Uttar Pradesh	400-500
12	Ludhiana	Punjab	300-400
13	Ambala	Haryana	100-200
Special consideration for addition			
II Cities as recommended by concerned state Government to NCRPB			
14	Dehradun	Uttrakhand	200-300
15	Saharanpur	Uttar Pradesh	100-200
III Existing CMA's			
16	Hissar	Haryana	100-200
17	Patiala	Punjab	200-300

Sl. No.	Contender Cities	State	Distance from Delhi in Km
18	Bareilly	Uttar Pradesh	200-300
19	Gwalior	Madhya Pradesh	300-400
20	Kota	Rajasthan	400-500

5.9 Stage V Special consideration for deletion

Some of the towns/cities available at this stage after the sieving process are located near to each other i.e. within 100 km distance. As it may not be appropriate to develop counter magnet areas too near to each other. In such cases, the city/town with better potential for industrial and other development or for other significant reasons has been retained and the other deleted. These are as given below Refer Table 5.19 to 5.20:

- i. Agra & Mathura deleted while Firozabad retained which has better industrial potential
- ii. Varanasi deleted while Allahabad retained which have better education and IT potential
- iii. Lucknow has been deleted while Kanpur retained which have industrial development potential and located on the main transport corridor.
- iv. Saharanpur deleted being located in proximity to Dehradun, the only city in Uttarakhand

Table 5.19: List of cities deleted due to special consideration

Sl. No.	Contender Cities	State
1	Mathura	Uttar Pradesh
2	Varanasi	Uttar Pradesh
3	Agra	Uttar Pradesh
4	Lucknow	Uttar Pradesh
5	Saharanpur	Uttar Pradesh

Table 5.20: List of selected cities

Sl. No.	Cities/towns after Stage V	State	Distance from Delhi in Km
I List of cities qualified the scanning process			
1	Ludhiana	Punjab	300-400
2	Firozabad	Uttar Pradesh	200-300
3	Jhansi	Uttar Pradesh	400-500
4	Gorakhpur	Uttar Pradesh	700-800
5	Allahabad	Uttar Pradesh	700-800
6	Kanpur Nagar	Uttar Pradesh	400-500
7	Muzaffarpur	Bihar	1000-1100
8	Gaya	Bihar	1000-1100
9	Ambala	Haryana	100-200
Special consideration for addition			
II Cities as recommended by concerned state Government to NCRPB			
10	Dehradun	Uttarakhand	200-300
III Existing CMA's			
11	Hissar	Haryana	100-200
12	Patiala	Punjab	200-300
13	Bareilly	Uttar Pradesh	200-300
14	Gwalior	Madhya Pradesh	300-400
15	Kota	Rajasthan	400-500

Refer Map 5.14

5.10 Stage VI Zone of influence study

These fifteen cities qualifying at stage V have been plotted on a regional map including the states of Uttar Pradesh, Rajasthan, Haryana, Punjab, Uttrakhand & Bihar. The identified cities have been indicated with their influence zone. It was observed that most of the top 90 cities of the six states sending major migration get included/covered within the influence zone of 120 km radius; commuting distance.

Further studying the migration from the influence zone of these fifteen cities indicates that six of the identified districts have quite low migration to NCT Delhi and rest of NCR varying from 3592 migrants of Kota to 75599 from Gaya i.e. cities sending less than one lakh migrants from their influence zone. Thus these are not considered as suitable option for counter magnet areas.

Table 5.21: List of cities deleted due to migration less than one lakh from influence zone

Sl. No.	Contender Cities	State	Total migration to NCR from influence zone
1	Kota	Rajasthan	3592
2	Jhansi	Uttar Pradesh	9518
3	Ludhiana	Punjab	31883
4	Patiala	Punjab	18480
5	Gaya	Bihar	79599
6	Gwalior	Madhya Pradesh	6724

Thus nine cities/towns envisage as choice for further consideration are as given below: Refer Table 5.22, 5.23 & 5.24 and Map 5.15 & 5.16

Table 5.22: State wise list of cities/towns selected for further consideration

Sl. No.	Contender Cities	State	Distance from Delhi in Km
I Uttar Pradesh			
1	Firozabad	Uttar Pradesh	200-300
2	Gorakhpur*	Uttar Pradesh	700-800
3	Allahabad*	Uttar Pradesh	700-800
4	Kanpur Nagar	Uttar Pradesh	400-500
5	Bareilly UA	Uttar Pradesh	200-300
IV Haryana			
6	Ambala UA	Haryana	100-200
7	Hissar UA	Haryana	100-200
V Uttrakhand			
8	Dehradun UA	Uttrakhand	200-300
VI Bihar			
9	Muzaffarpur*	Bihar	1000-1100

* These cities to be considered under special package

Table 5.23: Migration to Delhi & rest of NCR from influence zone of 15 contender cities

S No	Cities/districts	Top 100 migrating districts under its influence zone of 120 km	Migration to Delhi from influence zone	Migration to rest of NCR from influence zone	Total migration to NCR from influence zone
1	Firozabad		8699	4000	12699
		Mathura	18131	36204	54335
		Agra	28970	13268	42238
		Mainpuri	13836	5436	19272



S No	Cities/ districts	Top 100 migrating districts under its influence zone of 120 km	Migration to Delhi from influence zone	Migration to rest of NCR from influence zone	Total migration to NCR from influence zone
		Etah*	36477	15052	51529
		Aligarh	50068	73899	123967
		Bharatpur	7402	31417	38819
		Etawah	22177	8972	31149
		Bhind	6541	1224	7765
		Sub-total	192301	189472	381773
2	Jhansi		6631	2887	9518
		Sub-total	6631	2887	9518
3	Gorakhpur		30961	11683	42644
		Deoria	9805	6162	15967
		Purba Champaran	15139	3604	18743
		Azamgarh	33381	9555	42936
		Basti	16241	2937	19178
		Faizabad	18135	5258	23393
		Gonda	15187	3957	19144
		Ghazipur	8690	4450	13140
		Sub-total	147539	47606	195145
4	Allahabad		18015	9737	27752
		Sultanpur	18015	9737	27752
		Jaunpur	15031	3891	18922
		Varanasi	9820	4765	14585
		Pratapgarh	15858	8387	24245
		Sub-total	76739	36517	113256
5	Kanpur		24314	10118	34432
		Mahoba	5880	1721	7601
		Rai bareilly	12800	4294	17094
		Unnao	8207	3481	11688
		Lucknow	14545	6982	21527
		Hardoi	10803	4450	15253
		Sub-total	76549	31046	107595
6	Bareilly		17180	8108	25288
		Budaun	25412	12819	38231
		Rampur*	5840	3217	9057
		Farrukhabad	15046	5748	20794



S No	Cities/ districts	Top 100 migrating districts under its influence zone of 120 km	Migration to Delhi from influence zone	Migration to rest of NCR from influence zone	Total migration to NCR from influence zone
		Shahjahanpur	6763	2798	9561
		Etah*	36477	15052	51529
		Sub-total	106718	47742	154460
7	Kota		2202	1390	3592
		Sub-total	2202	1390	3592
8	Gwalior		4692	2032	6724
		Sub-total	4692	2032	6724
9	Ambala		4548	4309	8857
		Mujaffarnagar*	25180	70993	96173
		Saharanpur*	8993	12269	21262
		Karnal	5725	18754	24479
		Panipat	7085	37175	44260
		Chandigarh*	6700	5897	12597
		Sub-total	58231	149397	207628
10	Hissar		6894	11740	18634
		Jind	7573	22649	30222
		Bhiwani	8016	25324	33340
		Rewari	7448	29214	36662
		Sub-total	29931	88927	118858
11	Dehradun		9764	4883	14647
		Tehri Garwal	7066	1731	8797
		Pauri Garwal	31506	11295	42801
		Bijnor*	19217	10643	29860
		Mujaffarnagar*	25180	70993	96173
		Saharanpur*	8993	12269	21262
		Sub-total	101726	111814	213540
12	Ludhiana		7179	3479	10658
		Jalandhar	6056	2572	8628
		Chandigarh*	6700	5897	12597
		Sub-total	19935	11948	31883
13	Patiala		3363	2520	5883
		Chandigarh*	6700	5897	12597

S No	Cities/districts	Top 100 migrating districts under its influence zone of 120 km	Migration to Delhi from influence zone	Migration to rest of NCR from influence zone	Total migration to NCR from influence zone
		Sub-total	10063	8417	18480
14	Muzaffarpur		25930	3813	29743
		Sitamarhi	19744	2741	22485
		Madhubani	42299	8180	50479
		Darbanga	38842	7601	46443
		Saharsa	9206	2053	11259
		Khagaria	7419	2170	9589
		Munger	9340	6575	15915
		Samastipur	28533	6665	35198
		Begusarai	14972	3653	18625
		Patna	31903	12755	44658
		Vaishali	11101	2699	13800
		Siwan	21743	12266	34009
		Gopalganj	7150	5157	12307
		Ballia	13175	8939	22114
		Sub-total	281357	85267	366624
15	Gaya		13028	3981	17009
		Nalanda	12798	6378	19176
		Chatra	32202	2068	34270
		Ranchi	7140	2004	9144
		Sub-total	65168	14431	79599

* Cities overlapping within the influence zone of other CMA's

Table 5.24: Migration tackled by shortlisted cities/towns in descending order

S No	Cities/districts	No of districts covered under the influence zone of 120 km	Migration to Delhi from influence zone	Migration to rest of NCR from influence zone	Total migration to NCR from influence zone
1	Firozabad	8	192301	189472	381773
2	Muzaffarpur	13	281357	85267	366624
3	Dehradun	5	101726	111814	213540
4	Ambala	5	58231	149397	207628
5	Gorakhpur	7	147539	47606	195145
6	Bareilly	5	106718	47742	154460
7	Hissar	3	29931	88927	118858
8	Allahabad	4	76739	36517	113256
9	Kanpur	5	76549	31046	107595
Total		55	1071091	787788	1858879
Total migration			2172760	2548128	4720888
Migration tackled by 9 short listed cities/towns in percentage			49.30	30.92	39.38

5.11 Stage VII Development index study

Two development indexes have been studied for final selection of cities as proposed CMA's. These indexes are explained below:

(i) Infrastructure development index of CMIE

The Centre for Monitoring of Indian Economy (CMIE) have prepared profile for districts and worked out infrastructure development index considering seven sectors i.e. Transport, facilities, energy, irrigation facilities, banking, communication facilities, education facilities and health facilities with weightage as given below:

Sector	Weight (%)
Transport facilities	26
Energy	24
Irrigation facilities	20
Banking facilities	12
Communication facilities	6
Educational facilities	6
Health facilities	6

- The indicators used in each of the broad sectors were:
 1. Villages electrified
 2. Railway route per 100 sq. km. of area
 3. Surfaced roads per 100 sq. km. of area
 4. Unsurfaced roads per 100 sq. km. of area
 5. Gross irrigated area as % of gross cropped area
 6. Bank branches per lakh of population
 7. Post offices per lakh of population
 8. Telephone lines per 100 persons
 9. Primary schools per lakh of population
 10. Hospital beds per lakh of population
 11. Primary health centers per lakh of population

Relative index has been computed as follows:

X_{ij} = value of the i^{th} indicator for the j^{th} state/district

X_{iA} = value of the i^{th} indicator for all India

$Y_{ij} = 100 * X_{ij} / X_{iA}$ is the transformed value for the i^{th} indicator for the j^{th} state/district

Let w_i = weights for the i^{th} indicators such that $\sum (w_i)$ for all i is 1

The infrastructure index for the j^{th} state/district denoted by I_j is defined as

$I_j = \sum (w_i * Y_{ij})$ for all i

(ii) Development index of Ministry of Finance

Ministry of Finance prepared all India Gradation list by giving total weightage of 1500 to three type of parameters as explained below:

Table 5.25: Type of Parameters for Development Index

Sr No.	Type of parameters	All India weighted index
I	Financial Parameters	500
	• Per capita credit	300
	• Per capita deposit	200
II	Infrastructure	500
	• Urbanization	100
	• Phone per 1000	100
	• Per capita power	200
	• Road per 100 sq km	100
III	Industrial	500
	• Factory workers per 1000	300
	• Per capita GVA from manufacturing	200

Finally to select the proposed CMA's on the basis of their economic potential, in addition to the composite infrastructure index compiled by the Centre for Monitoring of the Indian Economy (CMIE), the consultants have also applied development index published by Ministry of Finance¹.

Cities/towns selected in the previous stage have been studied with respect to composite infrastructure development index and development index. Refer table 5.26 & Map 5.17

Table 5.26: Development Index for ten selected CMA's

Sr No	City/Town	Infrastructure Development Index of CMIE	Development index of Ministry of Finance
1	Ambala	129	2301
2	Bareilly	108	1005
3	Dehradun	118	2707
4	Firozabad	118	1033
5	Hissar	141	1111
6	Kanpur Nagar	124	3388
7	Gorakhpur	84	675
8	Allahabad	101	887
9	Muzaffarpur	97	377

Refer **Annexure VII** for development index published by MOF

It is observed that two districts i.e. Gorakhpur & Muzaffarpur have very low infrastructure development index (less than 100) while Allahabad is marginally with 101 score. These three districts also have low development index published by MOF (less than 1000). As the available infrastructure and development potential is of low level, these three cities may not be taken up as CMA's. The immediate priority for these cities would be upgradation of physical and social infrastructure by giving a special package.

Considering various aspects six cities that emerged in final selection as Counter Magnet Areas for immediate development are: (**Refer Map no 5.17**).

- 1 Ambala (Haryana)
- 2 Bareilly (Uttar Pradesh)
- 3 Dehradun (Uttarakhand)
- 4 Firozabad (Uttar Pradesh)
- 5 Hissar (Haryana)
- 6 Kanpur Nagar (Uttar Pradesh)

The emerged counter magnet areas are located in all directions of high migration with respect to NCTD.

5.12 Inputs from the Workshop

In a workshop held on the subject it was stated that Firozabad is a part of Taj Trapezium Zone (TTZ) and is environmentally sensitive area. Thus, bringing more industries to this area would be difficult. In view of this, Firozabad has been deleted from the final list of proposed CMAs. (**Refer Map no 5.18**).

The selected counter magnet areas are well distributed sending major migration to Delhi. The proposed CMA's are located as following: (**Refer table 5.27**)

- ✓ 2 proposed CMA's are located within 100-200 km;
- ✓ 2 CMA's within 200-300 km and;
- ✓ 1 CMA's within 400-500 km

¹ Gazette of India Extraordinary Part II, Section 3 (ii), 1997 {F.No.142/20/94-TPL/No.10403}

Table 5.27: Grouping of cities/towns qualifying selection criteria

Sl. No.	Contender Cities	State	Distance from Delhi in Km	Population in 2001
Group I Existing CMA's				
1	Hissar	Haryana	100-200	263186
2	Bareilly	Uttar Pradesh	200-300	748353
Group II Proposed New CMA's				
3	Kanpur Nagar	Uttar Pradesh	400-500	2715555
4	Ambala*	Haryana	100-200	307595
5	Dehradun*	Uttrakhand	200-300	530263

* Firozabad, Ambala & Dehradun are also recommended by the concerned state governments

Five proposed CMA's covers 24 districts within their influence zone and have the potential to tackle 8,02,081 persons migrated to NCR including NCT Delhi during the previous decade i.e. 1991-2001. Refer Table 5.28

Table 5.28: No of cities/towns from top 100 migrating districts and other cities

Sl No.	Classification/category of districts sending migrants to Delhi	No. (Proposed CMA's)	No of top 100 districts within the influence zone	Total migration from influence zone to NCR including NCTD
1	Among top 20-40 districts	2 (Kanpur & Bareilly)	10	262055
2	Among top 40-60 districts	1 (Dehradun)	5	213540
3	Among top 60-80 districts	1 (Hissar)	3	118858
4	Among top 80-100 districts	1 (Ambala)	6	207628
Total		5	24	802081

5.13 Recommendation for Allahabad, Gorakhpur & Muzaffarpur – Special Package

These three cities are located on specific road and rail corridor. Gorakhpur and Muzaffarpur are located on east-west corridor while Allahabad is located on Golden Quadrangle. Therefore their regional/national connectivity will be improved due to the development of these important corridors while there is requirement for upgradation of basic infrastructure. Allahabad is already covered under JNNURM scheme for upgradation/strengthening of existing basic infrastructure. Considering substantial migration to Delhi & NCR from the influence zone of Gorakhpur & Muzaffarpur and having very low level of available infrastructure, there is immediate need for upgradation of existing physical & social infrastructure (including connectivity). In view of this, it is recommended to consider Gorakhpur & Muzaffarpur at par with JNNURM scheme for upgradation of existing infrastructure. In addition to their consideration, these cities should also be given special package (i.e. grant/loan) from the Ministry of urban development or given priority in the five year plan prepared by the Central/State Government.

5.14 Recommendation for Patiala, Gwalior and Kota

Patiala, Gwalior and Kota are three existing counter magnet areas not included in the list of proposed counter magnet areas being located in the areas sending very low level of migration. These are also not in the top 100 districts sending major migration to Delhi and NCR. Moreover, Patiala is not on the selected transport major corridor. It is suggested that these should be phased out by completing the projects in operation in regard to special assistance as CMA's and pave way for other more important to be included as CMA's.