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**DISTRICT LEVEL DEVELOPMENT DISPARITIES
IN KARNATAKA**

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DISTRICT LEVEL DEVELOPMENT DISPARITIES IN KARNATAKA

Shiddu H and Abdul Aziz *

INTRODUCTION:

The Nanjundappa Committee which thoroughly examined the question of regional imbalance in Karnataka (2002) has carried out a massive work of collection and analysis of the appropriate statistical information relating to regional development and under-development. It may be noted that the Committee first carried out the analysis at the taluk level on the ground that local development can be effectively promoted if taluk is regarded as the nodal region which can carry out taluk level micro plans. That is the reason why the Committee after its analysis identified and categorised taluks into developed and backward, and in the latter, into backward, more backward and most backward taluks. From this exercise, the Committee went on to identifying the level of development of the revenue divisions by appropriately aggregating the development scores of the taluks coming under those regions. In the whole exercise, the district as a sub region was not given due attention and no exercise was done to categorise the districts into developed and backward and the latter into backward, more backward and most backward. It may be mentioned here that the report of the Committee in its Table 30.2 (pp. 818-18) presents the district wise cumulative deprivation index (CDI) values but does not anywhere indicate district wise comprehensive cumulative development index (CCDI) values.

This omission was perhaps due to the perception of the Committee that the phenomenon of backwardness needed to be tackled at the grass root level and that taluk would be the sub region which would be a more appropriate level at which the grass root level planning ought to be grounded. This perception of the Committee, of course, may be logical and therefore not questionable. However, for a curious reader and also perhaps for a policy maker at district the level the position relating to the developmental status of the district as a higher sub region may be of academic interest, if not anything else. Therefore, it will be of some

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interest to use the same statistical information collected by the committee to build the developmental profile of each of the districts of the State. The present paper is an attempt in the direction of building such a profile for the benefit of the curious readers and perspective policy makers.

METHODOLOGY:

The methodology employed for building the developmental status of the districts of Karnataka is simple. In this exercise we have used the same methodology as employed by the Nanjundappa Committee with a small difference and, that is, instead of aggregating the taluk development values at the revenue division level, as was done by the Committee, we are aggregating the taluk level values at the district level to arrive at the district development profiles.

The Nanjundappa Committee has adopted the indexing method to construct the index. In this method the "indicator for each region is either expressed as: (i) a proportion of the sample average of the indicator or (ii) a number which ranges between 0 and 1 where these limits are determined by the minimum and maximum values, respectively, of the indicator. In both cases, the inverse of the standard deviations of each (normalized) indicator can be used as the weight of the concerned indicator. However, because the latter method implied that the resulting index is sensitive to extreme (especially maximum) values in the series, the Committee used the first method, which is the more robust of the two, where each indicator was expressed as a proportion of the State average. Thus, if the resulting aggregate indicator for a given taluk is less than unity, it can be assumed that the concerned taluk is below the state average in terms of relative development, and be referred to as backward" (HPC FFRI 2002, p. 162).

The indicators taken for the construction of comprehensive Cumulative Development Index (CCDI) are 35 as stated below:

I. AGRICULTURAL AND ALLIED A1: Percentage of total cropped area to net area sown, A2: Percentage of area under food grains to total cropped area, A3: Percentage of area under horticultural crops to total cropped area, A4: Percentage of area under commercial crops to total cropped area, A5: Percentage of net area irrigated to net area a sown, A6: Fertilizer (NPK) consumption in kilograms per hectare (total cropped area), A7: Number of tractors per lakh rural population, A8: Livestock units per lakh rural population A9: per capita bank credit (commercial and regional rural banks) to agriculture (in rupees)

II. INDUSTRY, TRADE AND FINANCE I1: Number of industrial units per lakh population, I2: Percentage of industrial workers to total workers, I3: Per capita development credit by banks, I4: Number of bank branches per lakh population, I5: Number of enterprises engaged in trade, hotels and transport per lakh population

III. INFRASTRUCTURE (ECONOMIC) E1: Number of post offices per lakh population, E2: Number of telephones per lakh population, E3: Road length in kilometers per 100 square kilometres, E4: Proportion of villages having access to all weather roads(in percentage), E5: Railway track in kilometers per 1000 square kilometres, E6: Number of motor vehicles per lakh population, E7: Number of co-operative credit societies (agri. & non-agriculture) per lakh population, E8: Proportion of electrified villages and hamlets to total villages and hamlets, E9: Number of regulated markets and sub-markets (equivalent regulated markets) per lakh population

IV. INFRASTRUCTURE (SOCIAL) S1: Number of doctors (govt. & private) per 10,000 population, S2: Number of government hospital beds per 10,000 population, S3: Literacy rate (in percentage), S4: Pupil-teacher ratio (1st to 10th standard), S5: Percentage of children out of school in the age group 6 - 14 years S6: Number of students enrolled in government and aided first grade degree colleges per lakh population, S7: Percentage of habitations having drinking water facility of 40 or more LPCD

V. POPULATION CHARACTERISTICS P1: Sex ratio, P2: Percentage of urban population to total population, P3: Percentage of SC & ST population to total population, P4: Percentage of non-agricultural workers to total workers, P5: Percentage of agricultural labourers to total workers

The Nanjundappa Committee used this data set to initially construct, both, sectoral indices as well as Comprehensive Composite Development Index for each of the 175 taluks. There were 6 steps involved in this exercise. (i) In step 1, they initially expressed the raw data as number which ranges between 0 and 1 where these limits are determined by the minimum and maximum values, respectively of the indicators. (ii) In step 2, they computed the weights for each set of sector-specific indicators on the basis of the inverse of the standard deviation for each of these series. Table 1 presents all these sector-specific relative weights and the table also presents weights of the present study, using district as the unit. Further, (iii) In step 3, raw data have been normalized. The Committee normalized each of these indicators with respect to their corresponding state averages which is provided directly above the concerned indicator. (iv) In step 4, the Committee uses the above sector-specific weights - along with the normalized data to initially construct an overall index for each sectoral development for each taluk. (v) In step 5, the Committee uses these 5 (Agriculture and allied Industrial, Trade and Finance; Infrastructure (economic); Infrastructure (social) and Population Characteristics) sectoral indices to construct an aggregate index of development i.e., CCDI. The weights used for this purpose were: Agriculture (0.256); Industry, Trade and Finance (0.346) Infrastructure (economic) (0.112), Infrastructure (social)(0.248), Population Characteristics (0.038), which correspond to the relative shares of these sectors in the net SDP of Karnataka for 2001. A 10% additional emphasis was given to the indicators reflecting social infrastructure. These same weights have been used for the construction of CCDI at district level by us.

Table 1: Relative Weights of Sector-specific Development Indicators

| Ind. | Dis | HPC FRR1 | Ind. | Dis | HPC FRR1 | Ind. | Dis | HPC FRR1 | Ind. | Dis | HPC FRR1 | Ind. | Dis | HPC FRR1 |
|------|-------|-------------|------|-------|-------------|------|-------|-------------|------|-------|-------------|------|-------|-------------|
| A1 | 0.120 | 0.131 | I1 | 0.225 | 0.192 | E1 | 0.130 | 0.110 | S1 | 0.134 | 0.165 | P1 | 0.245 | 0.313 |
| A2 | 0.106 | 0.096 | I2 | 0.213 | 0.208 | E2 | 0.105 | 0.094 | S2 | 0.188 | 0.157 | P2 | 0.207 | 0.185 |
| A3 | 0.099 | 0.101 | I3 | 0.201 | 0.200 | E3 | 0.105 | 0.162 | S3 | 0.126 | 0.112 | P3 | 0.163 | 0.176 |
| A4 | 0.110 | 0.087 | I4 | 0.190 | 0.193 | E4 | 0.094 | 0.066 | S4 | 0.121 | 0.143 | P4 | 0.179 | 0.178 |
| A5 | 0.111 | 0.088 | I5 | 0.171 | 0.208 | E5 | 0.137 | 0.101 | S5 | 0.145 | 0.189 | P5 | 0.206 | 0.148 |
| A6 | 0.089 | 0.106 | | | | E6 | 0.126 | 0.130 | S6 | 0.148 | 0.127 | | | |
| A7 | 0.131 | 0.143 | | | | E7 | 0.102 | 0.102 | S7 | 0.138 | 0.107 | | | |
| A8 | 0.104 | 0.118 | | | | E8 | 0.085 | 0.075 | | | | | | |
| A9 | 0.130 | 0.131 | | | | E9 | 0.116 | 0.160 | | | | | | |

* ind.= Indicator, Dis = Computed taking districts as units,

HPC FRR1=High Power Committee on Redressal of Regional Imbalances

The district wise absolute information in respect of each of the indicators relating to the 5 specific sectors is presented in Appendix I to V. As can be seen from this appendix, these data are presented separately for agriculture sector, industrial sector, economic infrastructure, social infrastructure and demographic characteristics respectively in Appendix Tables No. I to VI. Based on the appendix tables we have first worked out the sector-wise CCDI for all the districts and their ranks, and then we have also worked out the aggregated CCDI in respect of each district. This information is presented in Table 2.

RESULTS:

The results of the exercise relating to district wise CCDI in regard to sectors and districts are as follows:

It can be seen from Table 2, the first 5 ranks in terms of level of development go to Dakshina Kannada, Udupi, Kodagu, Bangalore Urban and Chikmagalore districts. The next five ranks are taken by Shimoga, Dharwad, Bangalore Rural, Mysore and Hasan districts. Next to these districts, the ranks from 11 to 15 go to Uttar Kannada, Davangere, Mandya, Gadag and Belgaum. Belgaum gets the 15th rank and that happens to be State average level of development. Belgaum gets a CCDI value of 1.00, which is assumed to be the development level value for the State as a whole.

Table 2: District wise and Sector wise CCDI and its Ranks during 2001

| District | Agriculture & Allied | | Industry, Trade & Finance | | Economic Infrastructure | | Social Infrastructure | | Population | | CCDI | |
|-----------------|----------------------|-----------|---------------------------|-----------|-------------------------|----------|-----------------------|-----------|-------------|-----------|----------|-----------|
| | Index | Rank | Index | Rank | Index | Rank | Index | Rank | Index | Rank | Index | Rank |
| D.Kannada | 1.41 | 5 | 2.05 | 1 | 1.1 | 9 | 1.78 | 2 | 1.4 | 3 | 1.69 | 1 |
| Udipi | 1.27 | 9 | 1.63 | 3 | 1.11 | 7 | 2.41 | 1 | 1.11 | 7 | 1.65 | 2 |
| Kodagu | 2.01 | 1 | 1.69 | 2 | 1.17 | 4 | 1.38 | 3 | 1.3 | 4 | 1.62 | 3 |
| Bangalore Urban | 1.47 | 3 | 1.44 | 4 | 1.87 | 1 | 1.28 | 4 | 2.66 | 1 | 1.5 | 4 |
| Chikmagalur | 1.48 | 2 | 1.2 | 7 | 1.03 | 12 | 1.02 | 14 | 1.01 | 11 | 1.2 | 5 |
| Shimoga | 1.43 | 4 | 1.13 | 8 | 0.98 | 16 | 1.15 | 8 | 1.04 | 9 | 1.19 | 6 |
| Dharwad | 1.12 | 14 | 1.31 | 5 | 1.27 | 2 | 1.03 | 13 | 1.28 | 5 | 1.19 | 7 |
| Bangalore Rural | 1.18 | 10 | 1.09 | 9 | 0.86 | 22 | 1.1 | 9 | 0.92 | 18 | 1.08 | 8 |
| Mysore | 0.92 | 21 | 1.21 | 6 | 1.03 | 13 | 1.07 | 11 | 1.08 | 8 | 1.08 | 9 |
| Hassan | 1.16 | 12 | 0.87 | 15 | 1.12 | 6 | 1.18 | 7 | 1.22 | 6 | 1.06 | 10 |
| Uttara Kannada | 0.92 | 22 | 0.94 | 12 | 1.25 | 3 | 1.18 | 6 | 1.73 | 2 | 1.06 | 11 |
| Davanagere | 1.31 | 7 | 0.88 | 14 | 0.91 | 19 | 0.96 | 18 | 0.94 | 14 | 1.01 | 12 |
| Mandya | 1.3 | 8 | 0.74 | 23 | 0.99 | 15 | 1.09 | 10 | 0.95 | 13 | 1.01 | 13 |
| Gadag | 1.02 | 18 | 1.01 | 11 | 1.15 | 5 | 0.91 | 20 | 0.96 | 12 | 1 | 14 |
| Belgaum | 1.15 | 13 | 1.03 | 10 | 1.1 | 8 | 0.75 | 25 | 0.93 | 17 | 1 | 15 |
| Chikkaballapur | 1.17 | 11 | 0.67 | 26 | 0.81 | 24 | 1.18 | 5 | 0.91 | 19 | 0.95 | 17 |
| Haveri | 1.07 | 17 | 0.84 | 17 | 1.07 | 10 | 0.94 | 19 | 0.86 | 21 | 0.95 | 18 |
| Bellary | 1.12 | 15 | 0.93 | 13 | 1.06 | 11 | 0.76 | 23 | 0.82 | 22 | 0.95 | 19 |
| Bagalkote | 1.08 | 16 | 0.84 | 16 | 0.94 | 17 | 0.84 | 22 | 0.89 | 20 | 0.91 | 20 |
| Tumkur | 0.86 | 26 | 0.82 | 18 | 0.92 | 18 | 1.04 | 12 | 0.94 | 15 | 0.9 | 21 |
| Chitradurga | 0.91 | 23 | 0.78 | 21 | 0.87 | 21 | 1 | 15 | 0.77 | 25 | 0.88 | 22 |
| Ramanagara | 0.9 | 24 | 0.81 | 19 | 0.69 | 28 | 1 | 16 | 1.01 | 10 | 0.87 | 23 |
| Chamrajnagar | 0.88 | 25 | 0.79 | 20 | 0.7 | 27 | 0.88 | 21 | 0.71 | 27 | 0.82 | 24 |
| Bidar | 0.76 | 27 | 0.76 | 22 | 0.89 | 20 | 0.69 | 26 | 0.75 | 26 | 0.76 | 25 |
| Koppal | 0.93 | 20 | 0.71 | 24 | 0.76 | 26 | 0.61 | 28 | 0.67 | 29 | 0.74 | 26 |
| Bijapur | 0.75 | 28 | 0.62 | 27 | 0.83 | 23 | 0.76 | 24 | 0.82 | 23 | 0.72 | 27 |
| Raichur | 0.93 | 19 | 0.59 | 28 | 0.65 | 29 | 0.58 | 29 | 0.67 | 28 | 0.68 | 28 |
| Gulbarga | 0.67 | 29 | 0.58 | 29 | 0.77 | 25 | 0.63 | 27 | 0.78 | 24 | 0.64 | 29 |

Source: Computed from the data available in HPC FRRI (2002)

From the above it is clear that 15 districts are in the category of above the State average level of development. The remaining 14 districts fall below the State average level. The five tail-end districts are Gulbarga, Raichur, Bijapur, Koppal and Bidar. Incidentally these are the districts which roughly come

under the Hyderabad-Karnataka region. The remaining 9 districts which are above the level of Hyderabad Karnataka region are Chamarajnar, Ramanagar, Chitradurga, Tumkur (which are incidentally in the old Mysore area) followed by Bagalkot, Bellary, Haveri, Chikkaballapur (the first three are from the North Karnataka region and the last one is from old Mysore region).

It is difficult to explain the reason for these districts taking the lower or higher ranks based only on secondary data. However, an inspection of the data relating to sector wise CCDI may throw some broad light. In the first place, it may be seen that in respect of the first 9 districts which are above the State average they have ranks which actually more or less correspond to the ranks they get in respect of the industry, trade and finance sectors. More or less this is the pattern one gets in regard to population characteristics. As for agriculture sector at least the first six CCDI rank holding districts roughly correspond with this sector ranks and that is true of the first eight districts which have more or less corresponding ranks with the social infrastructure sector. It is in respect of economic infrastructure that the relationship with overall district ranks does not correspond with the ranks of economic infrastructure. In respect of the districts which get lower CCDI value there is more or less a corresponding relationship with the ranks in respect of each of the sectoral CCDI ranks.

From this analysis two points become evident: one, the deficit experienced in regard to sectoral development stands out as an important factor in pulling the backward districts down the State average level of development. Second, the deficit experienced specially in regard to industry and trade sector, and economic infrastructure appears to be a more important factor in pulling the backward districts down the State average level of development. Therefore, any in depth field study should investigate the fact of how far the deficiencies in respect of the industry and economic infrastructure have contributed to comparative under development of the backward districts.

Table 3: District wise CCDI and its Ranks during 2001

| Agriculture & Allied | | Industry, Trade & Finance | | Economic Infrastructure | | Social Infrastructure | | Population | | CCDI | |
|-----------------------------|------|---------------------------|------|-------------------------|------|-----------------------|------|---------------|------|---------------|------|
| Relatively Developed | | | | | | | | | | | |
| Kodagu | 2.01 | D.Kannada | 2.05 | Bangalore (U) | 1.87 | Udipi | 2.41 | Bangalore (U) | 2.66 | D.Kannada | 1.69 |
| Chikmagalur | 1.48 | Kodagu | 1.69 | Dharwad | 1.27 | D.Kannada | 1.78 | U. Kannada | 1.73 | Udipi | 1.65 |
| Bangalore (U) | 1.47 | Udipi | 1.63 | U. Kannada | 1.25 | Kodagu | 1.38 | D.Kannada | 1.4 | Kodagu | 1.62 |
| Shimoga | 1.43 | Bangalore (U) | 1.44 | Kodagu | 1.17 | Bangalore (U) | 1.28 | Kodagu | 1.3 | Bangalore (U) | 1.5 |
| D.Kannada | 1.41 | Dharwad | 1.31 | Gadag | 1.15 | Chikkaballapur | 1.18 | Dharwad | 1.28 | Chikmagalur | 1.2 |
| Kolar | 1.32 | Mysore | 1.21 | Hassan | 1.12 | U. Kannada | 1.18 | Hassan | 1.22 | Shimoga | 1.19 |
| Davanagere | 1.31 | Chikmagalur | 1.2 | Udipi | 1.11 | Hassan | 1.18 | Udipi | 1.11 | Dharwad | 1.19 |
| Mandya | 1.3 | Shimoga | 1.13 | Belgaum | 1.1 | Shimoga | 1.15 | Mysore | 1.08 | Bangalore (R) | 1.08 |
| Udipi | 1.27 | Bangalore (R) | 1.09 | D.Kannada | 1.1 | Bangalore (R) | 1.1 | Shimoga | 1.04 | Mysore | 1.08 |
| Bangalore R | 1.18 | Belgaum | 1.03 | Haveri | 1.07 | Mandya | 1.09 | Ramanagara | 1.01 | Hassan | 1.06 |
| Chikkaballapur | 1.17 | Gadag | 1.01 | Bellary | 1.06 | Mysore | 1.07 | Chikmagalur | 1.01 | U. Kannada | 1.06 |
| Hassan | 1.16 | | | Chikmagalur | 1.03 | Tumkur | 1.04 | | | Davanagere | 1.01 |
| Belgaum | 1.15 | | | Mysore | 1.03 | Dharwad | 1.03 | | | Mandya | 1.01 |
| Dharwad | 1.12 | | | Kolar | 1.01 | Chikmagalur | 1.02 | | | Gadag | 1 |
| Bellary | 1.12 | | | | | Chitradurga | 1 | | | Belgaum | 1 |
| Bagalkote | 1.08 | | | | | Ramanagara | 1 | | | | |
| Haveri | 1.07 | | | | | | | | | | |
| Gadag | 1.02 | | | | | | | | | | |

Backward

| | | | | | | | | | | | |
|---------------|------|------------|------|------------|------|------------|------|----------------|------|----------------|------|
| Raichur | 0.93 | U. Kannada | 0.94 | Mandya | 0.99 | Kolar | 0.96 | Gadag | 0.96 | Kolar | 0.96 |
| Koppal | 0.93 | Bellary | 0.93 | Shimoga | 0.98 | Davanagere | 0.96 | Mandya | 0.95 | Chikkaballapur | 0.95 |
| Mysore | 0.92 | Davanagere | 0.88 | Bagalkote | 0.94 | Haveri | 0.94 | Davanagere | 0.94 | Haveri | 0.95 |
| U. Kannada | 0.92 | | | Tumkur | 0.92 | Gadag | 0.91 | Tumkur | 0.94 | Bellary | 0.95 |
| Chitradurga | 0.91 | | | Davanagere | 0.91 | | | Kolar | 0.94 | Bagalkote | 0.91 |
| Ramanagara | 0.9 | | | Bidar | 0.89 | | | Belgaum | 0.93 | Tumkur | 0.9 |
| Chamrajanagar | 0.88 | | | | | | | Bangalore (R) | 0.92 | | |
| | | | | | | | | Chikkaballapur | 0.91 | | |
| | | | | | | | | Bagalkote | 0.89 | | |

More Backward

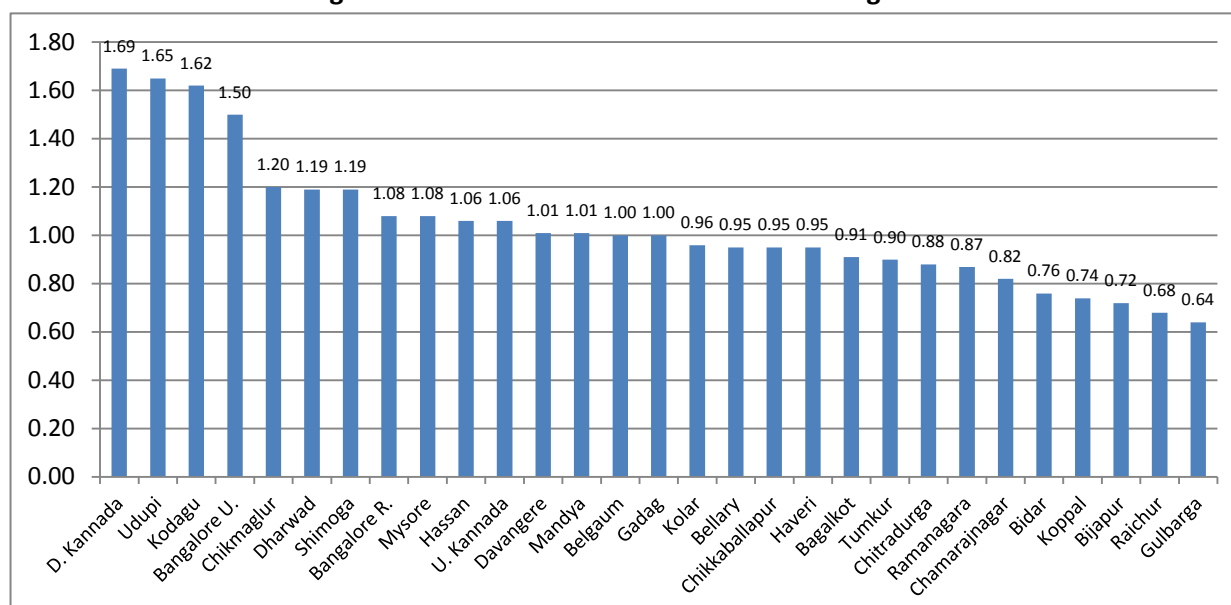
| | | | | | | | | | | | |
|--------|------|------------|------|----------------|------|---------------|------|---------|------|---------------|------|
| Tumkur | 0.86 | Hassan | 0.87 | Chitradurga | 0.87 | Chamrajanagar | 0.88 | Haveri | 0.86 | Chitradurga | 0.88 |
| | | Bagalkote | 0.84 | Bangalore (R) | 0.86 | Bagalkote | 0.84 | Bellary | 0.82 | Ramanagara | 0.87 |
| | | Haveri | 0.84 | Bijapur | 0.83 | | | Bijapur | 0.82 | Chamrajanagar | 0.82 |
| | | Tumkur | 0.82 | Chikkaballapur | 0.81 | | | | | | |
| | | Ramanagara | 0.81 | | | | | | | | |

Most Backward

| | | | | | | | | | | | |
|----------|------|----------------|------|---------------|------|----------|------|---------------|------|----------|------|
| Bidar | 0.76 | Chamrajanagar | 0.79 | Gulbarga | 0.77 | Bellary | 0.76 | Gulbarga | 0.78 | Bidar | 0.76 |
| Bijapur | 0.75 | Chitradurga | 0.78 | Koppal | 0.76 | Bijapur | 0.76 | Chitradurga | 0.77 | Koppal | 0.74 |
| Gulbarga | 0.67 | Bidar | 0.76 | Chamrajanagar | 0.7 | Belgaum | 0.75 | Bidar | 0.75 | Bijapur | 0.72 |
| | | Mandya | 0.74 | Ramanagara | 0.69 | Bidar | 0.69 | Chamrajanagar | 0.71 | Raichur | 0.68 |
| | | Koppal | 0.71 | Raichur | 0.65 | Gulbarga | 0.63 | Raichur | 0.67 | Gulbarga | 0.64 |
| | | Kolar | 0.68 | | | Koppal | 0.61 | Koppal | 0.67 | | |
| | | Chikkaballapur | 0.67 | | | Raichur | 0.58 | | | | |
| | | Bijapur | 0.62 | | | | | | | | |
| | | Raichur | 0.59 | | | | | | | | |
| | | Gulbarga | 0.58 | | | | | | | | |

Source: Computed from the data available in HPC FRRI (2002)

Now a word about the backward districts. On the basis of the CCDI, the districts are, of course, classified into developed and backward and, under the latter, they are further classified into backward, more backward and most backward. Table 3 presents the districts as per the above classification. It may be seen that there are 13 developed districts starting from Dakshina Kannada to Mandya and the remaining 16 districts are backward. Among the backward districts eight are backward which are distributed across Bangalore, Belgaum and Gulbarga divisions. Thus Gulbarga, Belgaum Bagalkote and Haveri which, belong to Belgaum division, Bellary under Gulbarga division, and Kolar, Chikballapur and Tumkur of Bangalore division are backward districts by the development indicators employed by the Nanjundappa Committee. Three districts namely Chitradurga, Ramanagar and Chamarajnar come under the category of more backward districts which belong to Bangalore and Mysore divisions. The remaining five districts viz., Bidar, Koppal, Raichur and Gubarga of Gulbarga division, and Bijapur of Belgaum division emerge as the most backward districts. From this analysis it is evident that backwardness is spread across all the four divisions but a majority of the most backward districts come under Gulbarga division suggesting that the Hyderabad-Karnataka region is the most backward region.

Figure1: District wise CCDI and its Ranks during 2001

Source: Table 2

DISTRICT BY SECTOR WISE CATEGORY WISE CCDI:

In the above analysis we have analysed districts coming broadly under two categories by CCDI, namely, relatively developed and relatively backward. It may be now of some interest to classify the backward districts into backward, more backward and most backward categories. Table 4, which presents this information, shows that there are 15 relatively developed districts and 14 relatively backward districts. Of the 14 relatively developed districts 6 come under the backward category, 3 under more backward and 5 under most backward categories.

Table 4: Sector wise and category wise CCDI and number of Districts

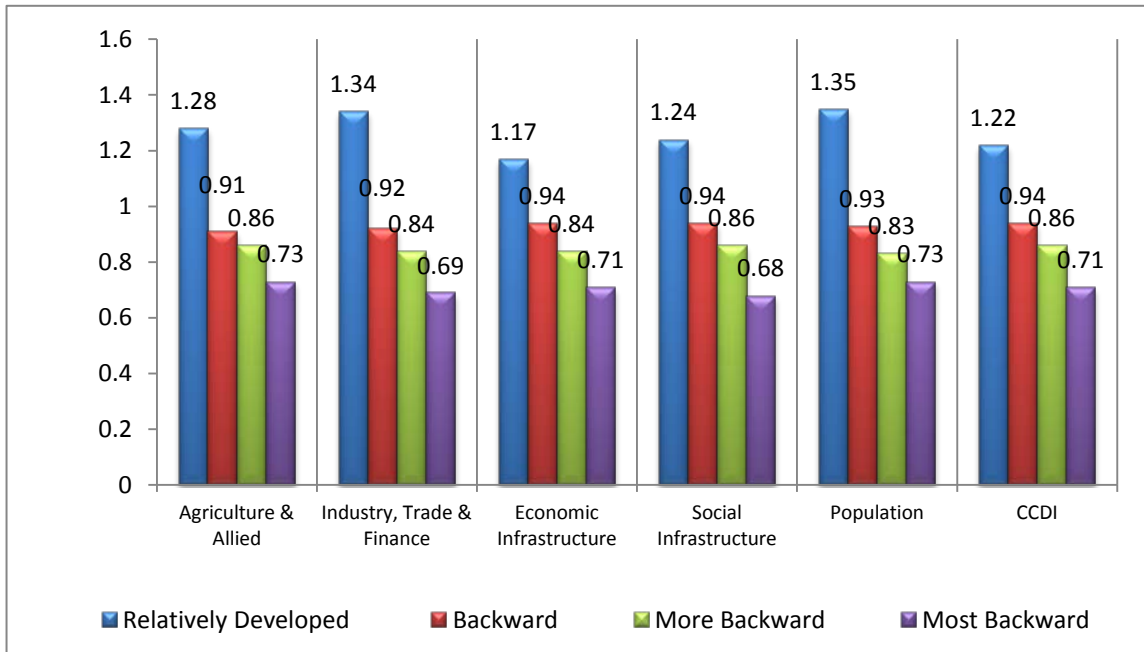
| Category | Agriculture & Allied | Industry, Trade & Finance | Economic Infrastructure | Social Infrastructure | Population | CCDI |
|----------------------|----------------------|---------------------------|-------------------------|-----------------------|-------------|-------------|
| Relatively Developed | 1.28 -18 | 1.34 -11 | 1.17 -14 | 1.24 -16 | 1.35 -11 | 1.22 -15 |
| Backward | 0.91 -7 | 0.92 -3 | 0.94 -6 | 0.94 -4 | 0.93 -9 | 0.94 -6 |
| More Backward | 0.86 -1 | 0.84 -5 | 0.84 -4 | 0.86 -2 | 0.83 -3 | 0.86 -3 |
| Most Backward | 0.73 -3 | 0.69 -10 | 0.71 -5 | 0.68 -7 | 0.73 -6 | 0.71 -5 |

Note: Figures in the brackets are number of districts

Source: Computed from the data available in HPC FRRRI (2002)

If we look at these districts sector wise, scenario some what changes. Thus, taking agriculture sector as the base the relatively developed districts would go up to 18 and the relatively backward come down 11. Of this the backward districts would be 7 and more & the most backward districts would be one and three respectively. Going by industry etc., the relatively backward districts go up to 18 which suggests that these districts are industrially less developed. Same can be said about the development status of the relatively backward districts seen in terms of the other sectoral status mainly economic and social infrastructure and population. Figure 2 presents a visual picture of districts by sector and category using the CCDI.

Figure 2: Sector wise and category wise CCDI



Source: Table 4

COMPARISON OF DEVELOPMENT LEVEL WITH PER CAPITA INCOME AND HDI LEVEL

Table 5 presents a comparative account of districts by CCDI, CDI, PCI (Per capita Income) and HDI (Human Development Index). Going by CCDI, 15 are counted as relatively developed and same 15 districts are counted as not relatively backward as per CDI. However the same cannot be said when we take PCI because Mandy, Davangere and Hassan fall under the category of relatively backward districts. If we go by HDI only, one district, namely Davangere fall under category of relatively backward district. Therefore, there does not appear to be a perfect one to one relationship between CCDI and CDI on the one hand and per capita income and HDI on the other in respect of the relatively developed districts.

Table 5: District wise CCDI, CDI, PCI and HDI for 2001

| District | CCDI | | CDI | | Per Capita Income (1999-00 Prices) | | HDI | |
|---------------------|-------|------|-------|------|---------------------------------------|------|-------------|------|
| | Value | Rank | Value | Rank | Value | Rank | Value | Rank |
| Dakshina Kannada | 1.69 | 1 | -0.69 | 29 | 28717 | 2 | 0.722 | 2 |
| Udupi | 1.65 | 2 | -0.65 | 28 | 21919 | 5 | 0.714 | 3 |
| Kodagu | 1.62 | 3 | -0.62 | 27 | 24662 | 3 | 0.697 | 4 |
| Bangalore Urban | 1.5 | 4 | -0.5 | 26 | 35283 | 1 | 0.753 | 1 |
| Chikmagalur | 1.2 | 5 | -0.2 | 25 | 19928 | 6 | 0.647 | 9 |
| Dharwad | 1.19 | 6 | -0.19 | 23 | 17887 | 8 | 0.642 | 10 |
| Shimoga | 1.19 | 6 | -0.19 | 23 | 17315 | 9 | 0.673 | 5 |
| Bangalore Rural | 1.08 | 8 | -0.08 | 21 | 24171 | 4 | 0.653 | 6 |
| Mysore | 1.08 | 8 | -0.08 | 21 | 19195 | 7 | 0.631 | 14 |
| Hassan | 1.06 | 10 | -0.06 | 19 | 14260 | 18 | 0.639 | 11 |
| Uttara Kannada | 1.06 | 10 | -0.06 | 19 | 17128 | 10 | 0.653 | 7 |
| Davangere | 1.01 | 12 | -0.01 | 17 | 14489 | 16 | 0.635 | 12 |
| Mandya | 1.01 | 12 | -0.01 | 17 | 14114 | 20 | 0.609 | 19 |
| Belgaum | 1 | 14 | 0 | 15 | 15858 | 14 | 0.648 | 8 |
| Gadag | 1 | 14 | 0 | 15 | 14535 | 15 | 0.634 | 13 |
| Kolar | 0.96 | 16 | 0.04 | 14 | 14174 | 19 | 0.625 | 17 |
| Bellary | 0.95 | 17 | 0.05 | 11 | 16790 | 11 | 0.617 | 18 |
| Chikkaballapur | 0.95 | 17 | 0.05 | 11 | | | | |
| Haveri | 0.95 | 17 | 0.05 | 11 | 12579 | 24 | 0.603 | 20 |
| Bagalkot | 0.91 | 20 | 0.09 | 10 | 16250 | 12 | 0.591 | 22 |
| Tumkur | 0.9 | 21 | 0.1 | 9 | 13535 | 22 | 0.63 | 15 |
| Chitradurga | 0.88 | 22 | 0.12 | 8 | 14008 | 21 | 0.627 | 16 |
| Ramanagara | 0.87 | 23 | 0.13 | 7 | | | | |
| Chamarajnar | 0.82 | 24 | 0.18 | 6 | 14313 | 17 | 0.576 | 25 |
| Bidar | 0.76 | 25 | 0.24 | 5 | 11515 | 26 | 0.599 | 21 |
| Koppal | 0.74 | 26 | 0.26 | 4 | 16227 | 13 | 0.582 | 24 |
| Bijapur | 0.72 | 27 | 0.28 | 3 | 13518 | 23 | 0.589 | 23 |
| Raichur | 0.68 | 28 | 0.32 | 2 | 11256 | 27 | 0.547 | 27 |
| Gulbarga | 0.64 | 29 | 0.36 | 1 | 12522 | 25 | 0.564 | 26 |
| Karnataka | | | | | 17265 | | 0.65 | |

Source: Computed from the data available in HPC FRRI (2002), Karnataka Human Development Report 2005 and Karnataka at a Glance

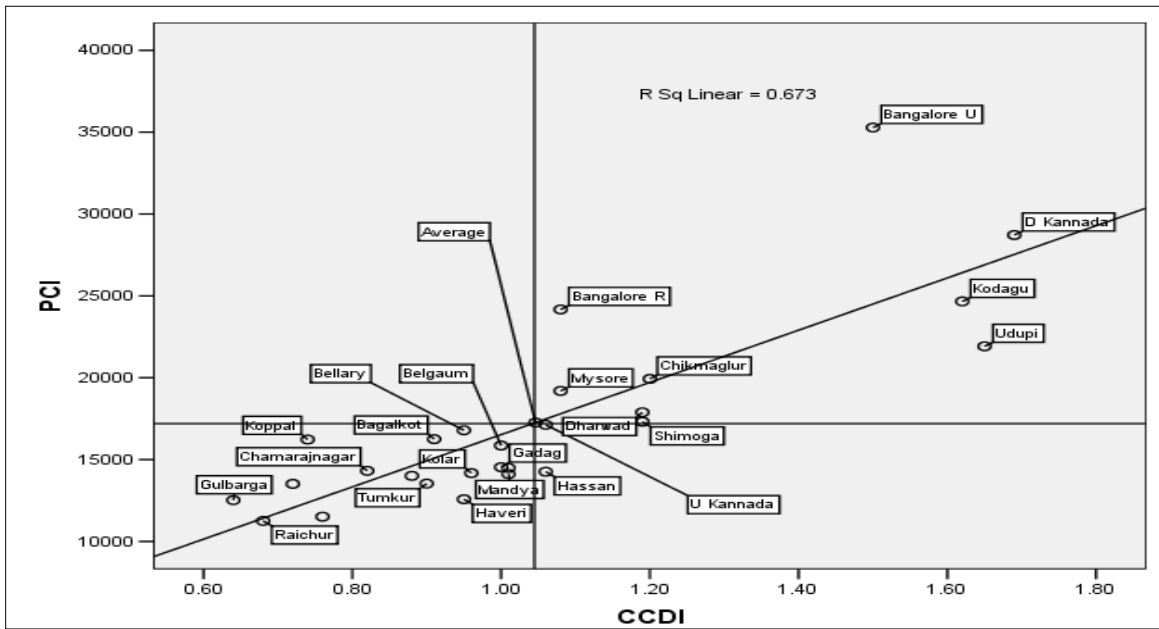
When we look at the relatively backward districts there is some degree of relationship between CCDI on the one hand and CDI on the other; but the same cannot be said about the relationship between CCDI and CDI on the one hand, and PCI and HDI on the other can be seen from Table 6. These relationships are also depicted in the scatter diagrams given in the figure 3 and 4.

Table 6: Correlation coefficients -Development Level with per capita income and HDI level

| Correlations | CCDI | CDI | PCI | HDI |
|--------------|-------|-------|------|------|
| CCDI | 1.00 | | | |
| CDI | -1.00 | 1.00 | | |
| PCI | 0.82 | -0.82 | 1.00 | |
| HDI | 0.93 | -0.93 | 0.85 | 1.00 |

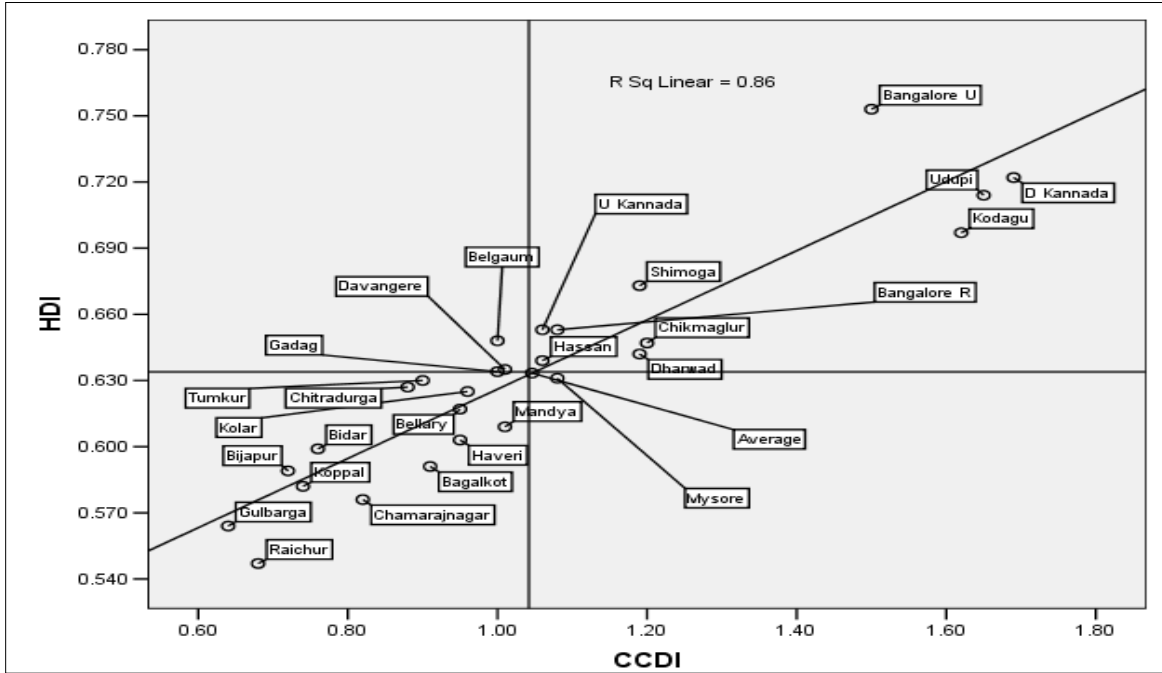
Source: Table 5

Figure 3: Relationship between CCDI and PCI



Source: Table 5

Figure 4: Relationship between CCDI and HDI



Source: Table 5

THE WAY FORWARD:

Backwardness needs to be tackled and the strategy followed by the Nanjundappa Committee was, among others, formulation and implementation of a Special Development Plan. At this point, a question that arises is what should be the size of this plan and how the outlay of this plan should be distributed across the backward regions. It may be recalled that the Nanjundappa Committee recommended an additional outlay of Rs. 16000 crore at 2002 prices for the eight year period between 2002 and 2010 to be allocated to the backward regions. It further stated that the allocation pattern should be consistent with the composite deprivation Index (CDI).

The Committee did provide a CDI for the four divisions (Table 4) and 175 taluks, but did not provide CDI for the districts as such. On the basis of our own exercise, we have presented in Table 5 CDI in respect of all the districts of the State instead of only the backward districts. An additional exercise that we have done is to work out the CDI of each of the backward districts with regard to the five sectors namely Agriculture, Industry, Economic Infrastructure, Social Infrastructure and Population Characteristics. The results of this exercise are also presented in Table 5.

From these exercises a few policy related points will emerge. In the first place more resources should go to the most backward region of Gulbarga division and the rest should be distributed across the other three divisions. The quantum of resources should be in proportion to the CDI value. The second point is, the point relating to distribution across the five sectors. Of course, this also has to be on the basis of the weights assigned by the Committee for these sectors which are shown in Table 7.

From the CDI in respect of these sectors it is evident that some kind of a prioritization has to be worked out for the purpose of resource allocation. Which has to be on the basis of the number of backward, more backward, and most backward districts as defined by the sectoral CDI. An examination of Table 5 shows that if one goes by the CDI only a small number of 11 districts need attention as for the development of agriculture is concerned. This is so because 18 districts are considered to be developed by this indicator. Similarly, in respect of social infrastructure only 13 districts need to be given attention for development. For economic infrastructure and population characteristics the districts that require attention are 15 and 16 respectively.

Table 7: District wise and Sector wise Composite Deprivation Index

| District | Agriculture & Allied | Industry, Trade & Finance | Economic Infrastructure | Social Infrastructure | Population | Total CDI |
|-----------------|----------------------|---------------------------|-------------------------|-----------------------|------------|-----------|
| D.Kannada | -0.41 | -1.05 | -0.1 | -0.78 | -0.4 | -0.69 |
| Udipi | -0.27 | -0.63 | -0.11 | -1.41 | -0.11 | -0.65 |
| Kodagu | -1.01 | -0.69 | -0.17 | -0.38 | -0.3 | -0.62 |
| Bangalore Urban | -0.47 | -0.44 | -0.87 | -0.28 | -1.66 | -0.5 |
| Chikmagalur | -0.48 | -0.2 | -0.03 | -0.02 | -0.01 | -0.2 |
| Shimoga | -0.43 | -0.13 | 0.02 | -0.15 | -0.04 | -0.19 |
| Dharwad | -0.12 | -0.31 | -0.27 | -0.03 | -0.28 | -0.19 |
| Bangalore Rural | -0.18 | -0.09 | 0.14 | -0.1 | 0.08 | -0.08 |
| Mysore | 0.08 | -0.21 | -0.03 | -0.07 | -0.08 | -0.08 |
| Hassan | -0.16 | 0.13 | -0.12 | -0.18 | -0.22 | -0.06 |
| Uttara Kannada | 0.08 | 0.06 | -0.25 | -0.18 | -0.73 | -0.06 |
| Davanagere | -0.31 | 0.12 | 0.09 | 0.04 | 0.06 | -0.01 |
| Mandya | -0.3 | 0.26 | 0.01 | -0.09 | 0.05 | -0.01 |
| Gadag | -0.02 | -0.01 | -0.15 | 0.09 | 0.04 | 0 |
| Belgaum | -0.15 | -0.03 | -0.1 | 0.25 | 0.07 | 0 |
| Kolar | -0.32 | 0.32 | -0.01 | 0.04 | 0.06 | 0.04 |
| Chikkaballapur | -0.17 | 0.33 | 0.19 | -0.18 | 0.09 | 0.05 |
| Haveri | -0.07 | 0.16 | -0.07 | 0.06 | 0.14 | 0.05 |
| Bellary | -0.12 | 0.07 | -0.06 | 0.24 | 0.18 | 0.05 |
| Bagalkote | -0.08 | 0.16 | 0.06 | 0.16 | 0.11 | 0.09 |
| Tumkur | 0.14 | 0.18 | 0.08 | -0.04 | 0.06 | 0.1 |
| Chitradurga | 0.09 | 0.22 | 0.13 | 0 | 0.23 | 0.12 |
| Ramanagara | 0.1 | 0.19 | 0.31 | 0 | -0.01 | 0.13 |
| Chamrajnagar | 0.12 | 0.21 | 0.3 | 0.12 | 0.29 | 0.18 |
| Bidar | 0.24 | 0.24 | 0.11 | 0.31 | 0.25 | 0.24 |
| Koppal | 0.07 | 0.29 | 0.24 | 0.39 | 0.33 | 0.26 |
| Bijapur | 0.25 | 0.38 | 0.17 | 0.24 | 0.18 | 0.28 |
| Raichur | 0.07 | 0.41 | 0.35 | 0.42 | 0.33 | 0.32 |
| Gulbarga | 0.33 | 0.42 | 0.23 | 0.37 | 0.22 | 0.36 |

Source: Computed from the data available in HPC FRR (2002)

But in respect of industry and trade a larger proportion of districts namely 18 districts require attention. Obviously when allocation is made not only development weightage but also the number of districts that need attention ought to be considered. But since backward taluks are found even in the so called relatively developed districts, resource allocation cannot be stopped to those districts.

REFERENCES:

- HPC FRRI (2002), High Power Committee on Redressal of Regional Imbalances, Government of Karnataka
- Karnataka at a Glance, Various Issues
- Karnataka Human Development Report 2005, Government of Karnataka

Appendix Table 1: District wise Indicators on Agricultural and Allied Activities during 2001

| Districts | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 |
|-----------------|--|---|---|--|-------------------------------------|------------------------|-------------------------------------|---|---------------------------------------|
| | % of Total cropped area to net area sown | % of area under food grains to total cropped area | % of area under horticultural crops to total cropped area | % of area under commercial crops to total cropped area | % of net irrigated to net area sown | NPK in Kgs per hectare | Number of tractors per 000 hectares | Livestock units per lakh rural population | Per capita bank credit to agriculture |
| Bagalkote | 115.6 | 60.9 | 2.24 | 36.71 | 40.9 | 72.1 | 9.8 | 45690 | 655 |
| Bangalore Rural | 107.5 | 64.1 | 6.96 | 12.73 | 18.4 | 190.3 | 15.9 | 65529 | 298 |
| Bangalore Urban | 116 | 72.3 | 7.64 | 9.18 | 24.3 | 249.9 | 37.5 | 31555 | 26 |
| Belgaum | 115.1 | 54.65 | 2.15 | 41.01 | 38 | 133.1 | 12.2 | 40967 | 669 |
| Bellary | 116.9 | 50.53 | 2.03 | 47.41 | 30.4 | 161.3 | 9.8 | 55243 | 573 |
| Bidar | 122.2 | 81.09 | 0.6 | 29.31 | 9.8 | 39.5 | 3.3 | 40679 | 628 |
| Bijapur | 109.9 | 66.47 | 2.01 | 31.49 | 15.3 | 34.2 | 4.9 | 33873 | 431 |
| Chamrajnagar | 116.3 | 51.17 | 1.99 | 46.81 | 27 | 94.8 | 6.2 | 47646 | 249 |
| Chikkaballapur | 105.6 | 45.87 | 8.73 | 42.93 | 23.9 | 152.9 | 9.3 | 43268 | 419 |
| Chikmagalur | 109.9 | 48.03 | 2.61 | 49.27 | 8.9 | 127 | 9.6 | 57161 | 2389 |
| Chitradurga | 113.8 | 38.96 | 4.4 | 56.36 | 12.7 | 59 | 6.5 | 48379 | 395 |
| D.Kannada | 124.5 | 45.09 | 22.8 | 31.5 | 51.3 | 97.5 | 1.1 | 36738 | 19 |
| Davanagere | 126.3 | 68.77 | 2.74 | 28.38 | 33.8 | 151 | 20.1 | 51882 | 688 |
| Dharwad | 141.8 | 46.3 | 8.18 | 44.64 | 12.1 | 70.8 | 13 | 45421 | 400 |
| Gadag | 119 | 47.53 | 4.17 | 48.24 | 17.5 | 55.5 | 9.5 | 54210 | 564 |
| Gulbarga | 120 | 73.07 | 0.82 | 26.06 | 14 | 28.6 | 3.3 | 51085 | 244 |
| Hassan | 115.3 | 62.13 | 4 | 33.31 | 20.7 | 134.2 | 9.6 | 60892 | 843 |
| Haveri | 128.7 | 53.41 | 3.43 | 43 | 20.4 | 91.2 | 11.6 | 44873 | 620 |
| Kodagu | 101.1 | 30.33 | 3.77 | 65.9 | 2.2 | 241.6 | 13.4 | 35178 | 3881 |
| Kolar | 109.6 | 50.7 | 19.15 | 19.68 | 18.7 | 87.9 | 10.9 | 39340 | 302 |
| Koppal | 119.8 | 64.68 | 0.91 | 34.4 | 27.2 | 156.7 | 6.9 | 39509 | 389 |
| Mandya | 119.6 | 70.82 | 2.53 | 25.84 | 47 | 209.5 | 17 | 40912 | 576 |
| Mysore | 123 | 63.88 | 1.08 | 34.95 | 30.5 | 119.4 | 5.1 | 42106 | 489 |
| Raichur | 121.1 | 63.79 | 0.31 | 35.88 | 23.6 | 164.4 | 5.6 | 50608 | 476 |
| Ramanagara | 109.2 | 65.79 | 5.75 | 26.73 | 20.1 | 50.1 | 4.1 | 79035 | 170 |
| Shimoga | 116.2 | 71.57 | 3.26 | 24.37 | 60.3 | 193.2 | 15 | 77100 | 615 |
| Tumkur | 107.1 | 47.15 | 1.97 | 48.1 | 18.3 | 61.8 | 9.7 | 48780 | 266 |
| Udipi | 132.3 | 61.37 | 18.91 | 19.68 | 34.2 | 45.4 | 0.7 | 53507 | 299 |
| Uttara Kannada | 115.5 | 73.26 | 4.24 | 21.25 | 22.6 | 67.5 | 5 | 58451 | 419 |
| State | 117.4 | 59.62 | 3.35 | 36.46 | 23.8 | 99.5 | 8.8 | 48212 | 486 |

Source: Computed from the data available in HPC FRRRI (2002)

Appendix Table 2: District wise Indicators on Industry, Trade and Finance during 2001

| | I1 | I2 | I3 | I4 | I5 |
|-----------------|--|---|---|---|--|
| Districts | Number of Industrial Units per lakh population | % of Industrial workers to total main workers | Bank advances per lakh population in rupees | Number of bank branches per lakh population | No. of enterprises per lakh population |
| Bagalkote | 273 | 11.91 | 3465 | 7.26 | 999 |
| Bangalore Rural | 1041 | 11.71 | 1676 | 5.76 | 1260 |
| Bangalore Urban | 616 | 31.4 | 1195 | 11.33 | 1777 |
| Belgaum | 579 | 9.62 | 3665 | 7.75 | 1633 |
| Bellary | 492 | 5.63 | 4078 | 7.75 | 1535 |
| Bidar | 366 | 4.4 | 4199 | 6.13 | 1077 |
| Bijapur | 238 | 4.07 | 2999 | 6.86 | 877 |
| Chamrajnagar | 633 | 7.12 | 1999 | 5.91 | 932 |
| Chikkaballapur | 428 | 5.71 | 812 | 7.9 | 1154 |
| Chikmagalur | 401 | 3.95 | 9244 | 11.5 | 1337 |
| Chitradurga | 299 | 5.61 | 2953 | 7.61 | 1657 |
| D.Kannada | 573 | 35.7 | 9851 | 15.98 | 1353 |
| Davanagere | 399 | 8.27 | 3338 | 6.98 | 1587 |
| Dharwad | 643 | 11.87 | 5716 | 11.16 | 1747 |
| Gadag | 481 | 8.8 | 4000 | 8.33 | 1657 |
| Gulbarga | 305 | 4.83 | 1160 | 5.44 | 1294 |
| Hassan | 361 | 3.88 | 4293 | 9.18 | 1512 |
| Haveri | 444 | 6.04 | 3090 | 6.61 | 1590 |
| Kodagu | 510 | 3.95 | 12613 | 20.17 | 1793 |
| Kolar | 360 | 7.73 | 1008 | 6.57 | 1291 |
| Koppal | 260 | 4.92 | 3080 | 6.03 | 1509 |
| Mandya | 285 | 4.49 | 3195 | 7.27 | 1469 |
| Mysore | 671 | 9.98 | 6282 | 8.95 | 1195 |
| Raichur | 284 | 2.49 | 2482 | 5.52 | 1233 |
| Ramanagara | 572 | 10.32 | 1514 | 5.65 | 1083 |
| Shimoga | 608 | 8.21 | 5270 | 9.33 | 1519 |
| Tumkur | 597 | 6.84 | 1802 | 7.33 | 1215 |
| Udipi | 561 | 17.89 | 7934 | 18.3 | 1339 |
| Uttara Kannada | 415 | 7.72 | 2103 | 12.27 | 1697 |
| State | 482 | 10.71 | 3527 | 8.74 | 1428 |

Source: Computed from the data available in HPC FRRI (2002)

Appendix Table 3: District wise Indicators on Economic Infrastructure during 2001

| | E1 | E2 | E3 | E4 | E5 | E6 | E7 | E8 | E9 |
|-----------------|---|---------------------------------------|---|---|---------------------------------------|---|-------------------------------------|--|---|
| Districts | No. of Post Offices per lakh population | No. of telephones per lakh population | Road leangth in Kilometers per 100 wquares kilometers | Proportion of villages having access to all weather roads | Railway line in kms. Per 1000 sq.kms. | No. of motor vehicles per lakh population | Co-op societies per lakh population | Proportion of electrified villages including hamlets | Regulated Markets and Sub-Markets / lakh population |
| Bagalkote | 21 | 2272 | 349 | 80 | 11.68 | 3205 | 21 | 98.78 | 0.35 |
| Bangalore Rural | 17 | 3098 | 429 | 31 | 29.16 | 4844 | 8 | 96.81 | 0.15 |
| Bangalore Urban | 6 | 11943 | 380 | 51 | 107.44 | 21628 | 7 | 75.6 | 0.04 |
| Belgaum | 17 | 3036 | 620 | 76 | 16.34 | 5628 | 32 | 98.74 | 0.28 |
| Bellary | 19 | 2612 | 395 | 72 | 36.82 | 4849 | 9 | 88.52 | 0.33 |
| Bidar | 20 | 1913 | 263 | 92 | 14.47 | 2618 | 15 | 83.39 | 0.36 |
| Bijapur | 23 | 2424 | 195 | 73 | 12.33 | 2317 | 20 | 81.31 | 0.2 |
| Chamrajanagar | 21 | 1686 | 278 | 71 | 3.17 | 2247 | 10 | 75.2 | 0.33 |
| Chikkaballapur | 17 | 2653 | 484 | 42 | 16.92 | 2575 | 9 | 94.86 | 0.3 |
| Chikmagalur | 27 | 5002 | 583 | 46 | 12.58 | 5332 | 13 | 43.86 | 0.58 |
| Chitradurga | 20 | 2247 | 329 | 68 | 19.97 | 2935 | 12 | 81.47 | 0.3 |
| D.Kannada | 25 | 7899 | 387 | 75 | 28.93 | 7955 | 9 | 14.22 | 0.27 |
| Davanagere | 19 | 3032 | 500 | 70 | 7.95 | 6019 | 15 | 89.99 | 0.3 |
| Dharwad | 13 | 5283 | 531 | 91 | 35.42 | 8351 | 18 | 97.69 | 0.35 |
| Gadag | 18 | 2366 | 484 | 92 | 19.54 | 3734 | 24 | 96.75 | 0.6 |
| Gulbarga | 20 | 1952 | 465 | 56 | 13.91 | 2615 | 10 | 73.79 | 0.26 |
| Hassan | 24 | 4046 | 814 | 54 | 29.36 | 3960 | 12 | 81.41 | 0.4 |
| Haveri | 18 | 1922 | 729 | 97 | 16.3 | 2658 | 21 | 94.88 | 0.46 |
| Kodagu | 41 | 7256 | 250 | 79 | 0 | 8336 | 16 | 46.03 | 0.58 |
| Kolar | 16 | 3491 | 387 | 61 | 31.62 | 4486 | 7 | 97.64 | 0.38 |
| Koppal | 18 | 1759 | 216 | 68 | 9.89 | 2231 | 9 | 90.83 | 0.39 |
| Mandya | 21 | 2355 | 1196 | 67 | 16.63 | 3006 | 14 | 91.62 | 0.25 |
| Mysore | 16 | 4680 | 739 | 70 | 16.11 | 9266 | 11 | 83.56 | 0.28 |
| Raichur | 18 | 1845 | 192 | 57 | 6.08 | 2470 | 8 | 82.44 | 0.28 |
| Ramanagara | 17 | 2057 | 294 | 48 | 10.95 | 2103 | 11 | 87.18 | 0.22 |
| Shimoga | 22 | 4796 | 567 | 65 | 14.86 | 7384 | 14 | 44.14 | 0.29 |
| Tumkur | 22 | 2637 | 873 | 38 | 9.15 | 4420 | 12 | 85.74 | 0.43 |
| Udipi | 31 | 7711 | 179 | 83 | 29.65 | 5462 | 8 | 14.12 | 0.38 |
| Uttara Kannada | 37 | 5594 | 714 | 43 | 17.51 | 5376 | 18 | 40.85 | 0.68 |
| State | 19 | 4430 | 698 | 60 | 17.47 | 6742 | 14 | 66.56 | 0.3 |

Source: Computed from the data available in HPC FRRI (2002)

Appendix Table 4: District wise Indicators on Social Infrastructure during 2001

| | S1 | S2 | S3 | S4 | S5 | S6 | S7 |
|-----------------|--------------------------------------|-----------------------------------|---------------|--------------------------|-----------------------------|---|--|
| Districts | No. of Doctors per 10,000 population | No. of beds per 10,000 population | Literacy Rate | No. of pupil per teacher | % of children out of school | No. of students enrolled in Govt. And aided first grade degree colleges per lakh population | % of habitations having drinking water facility of 40 or more LPCD, 2001 |
| Bagalkote | 3.33 | 4.63 | 57.5 | 39.91 | 13.38 | 663.47 | 47.31 |
| Bangalore Rural | 1.87 | 5.58 | 65.8 | 27.53 | 4.15 | 334.84 | 74.41 |
| Bangalore Urban | 2.76 | 5.98 | 79.88 | 33.55 | 3.35 | 771.34 | 56.78 |
| Belgaum | 1.32 | 4.41 | 62.33 | 38.97 | 8.76 | 509.94 | 32.3 |
| Bellary | 1.65 | 6.34 | 57.04 | 41.37 | 16.71 | 588.68 | 46.88 |
| Bidar | 1.5 | 5.28 | 61.69 | 42.01 | 12.41 | 499.57 | 20.91 |
| Bijapur | 2.46 | 5.58 | 56.6 | 37.58 | 16.84 | 492.38 | 41.72 |
| Chamrajnagar | 2.68 | 6.45 | 50.87 | 35.15 | 8.75 | 202.08 | 73.1 |
| Chikkaballapur | 2.9 | 8.76 | 74.5 | 23.53 | 5.52 | 677.25 | 46.86 |
| Chikmagalur | 3.2 | 8.1 | 68.04 | 33.47 | 9.83 | 659.14 | 56.46 |
| Chitradurga | 2.53 | 7.6 | 63.65 | 32.81 | 8.12 | 523.81 | 66.56 |
| D.Kannada | 5.62 | 6.58 | 81.59 | 37.49 | 1.95 | 1086.79 | 51.36 |
| Davanagere | 2.43 | 7.85 | 66.01 | 34.54 | 7.73 | 358.67 | 61.13 |
| Dharwad | 4.99 | 7.8 | 67.81 | 40.74 | 9.15 | 648.76 | 38.99 |
| Gadag | 2.63 | 5.14 | 64.98 | 37.62 | 10.68 | 585.63 | 70.15 |
| Gulbarga | 1.8 | 6.06 | 48.18 | 42.59 | 24.33 | 241.8 | 41.88 |
| Hassan | 2.58 | 9.85 | 67.66 | 25.3 | 5.01 | 462.23 | 58.68 |
| Haveri | 3.45 | 4.79 | 67.76 | 36.38 | 8.61 | 423.93 | 67.22 |
| Kodagu | 3.12 | 24.65 | 78.69 | 25.55 | 8.62 | 613.79 | 18.15 |
| Kolar | 2.06 | 7.26 | 61.23 | 30.58 | 10.13 | 527.08 | 74.83 |
| Koppal | 1.72 | 4.58 | 54.93 | 45.1 | 20.38 | 204.43 | 46.27 |
| Mandya | 1.63 | 6.98 | 60.83 | 33.04 | 4.35 | 500.22 | 68.49 |
| Mysore | 4.58 | 8.36 | 58.94 | 34.32 | 9.54 | 422.86 | 78.24 |
| Raichur | 1.48 | 4.11 | 48.29 | 44.75 | 27.48 | 189.5 | 54.8 |
| Ramanagara | 2.8 | 8.9 | 66.04 | 34.47 | 11.03 | 678.4 | 55.15 |
| Shimoga | 3.02 | 7.79 | 74.53 | 27.04 | 5.59 | 585.64 | 61.55 |
| Tumkur | 1.47 | 5.18 | 66.51 | 27.7 | 4.33 | 464.73 | 57.01 |
| Udipi | 4.7 | 11.39 | 79.82 | 37.05 | 1.15 | 1231.65 | 52.91 |
| Uttara Kannada | 2.34 | 9.24 | 75.54 | 25.19 | 6.91 | 973.55 | 49.75 |
| State | 3 | 8 | 67.04 | 34.47 | 10.03 | 669.44 | 56 |

Source: Computed from the data available in HPC FRR (2002)

Appendix Table 5: District wise Indicators on Population during 2001

| | P1 | P2 | P3 | P4 | P5 |
|-----------------|--|---|---|--|--|
| Districts | Number of females per 1000 male population | Ratio of Urban Population to Total Population | Ratio of SC and ST Population to Total Population | No. of non - agricultural workers to total workers | Agricultural labourers to total main workers |
| Bagalkote | 977.1 | 29 | 17.26 | 35.96 | 49.96 |
| Bangalore Rural | 942.4 | 22.57 | 26.34 | 39 | 23.72 |
| Bangalore Urban | 905.8 | 88.08 | 15.82 | 89.62 | 4.6 |
| Belgaum | 958.9 | 24.06 | 13.67 | 37.92 | 44.75 |
| Bellary | 969.2 | 34.86 | 27.72 | 30.17 | 53.39 |
| Bidar | 948.1 | 22.94 | 29.01 | 29.98 | 49.61 |
| Bijapur | 948.1 | 21.87 | 20.12 | 28.32 | 38.27 |
| Chamrajnagar | 968.3 | 15.37 | 27.72 | 30.15 | 50.32 |
| Chikkaballapur | 963.8 | 19.4 | 32.73 | 29.57 | 18.79 |
| Chikmagalur | 983.6 | 19.52 | 21.86 | 45.34 | 20.44 |
| Chitradurga | 954.6 | 18.15 | 38.73 | 33.97 | 31.68 |
| D.Kannada | 1022.5 | 38.41 | 10.94 | 74.44 | 21.37 |
| Davanagere | 951 | 30.3 | 29.37 | 34.24 | 23.49 |
| Dharwad | 947.7 | 54.98 | 10.77 | 46.14 | 30.36 |
| Gadag | 968.3 | 35.18 | 16.23 | 34.48 | 42.35 |
| Gulbarga | 963.6 | 27.13 | 27.79 | 30.09 | 47.97 |
| Hassan | 1004.7 | 17.7 | 18.47 | 39.34 | 11.73 |
| Haveri | 942.2 | 20.79 | 17.98 | 29.42 | 32.74 |
| Kodagu | 996 | 13.79 | 20.33 | 66.52 | 11.56 |
| Kolar | 974.5 | 29.16 | 32.55 | 36.95 | 23.79 |
| Koppal | 982.5 | 16.61 | 21.77 | 24.54 | 101.84 |
| Mandya | 985.5 | 16.02 | 14.51 | 32.09 | 25.97 |
| Mysore | 965 | 36.9 | 19.95 | 42.33 | 22.94 |
| Raichur | 980.2 | 25.42 | 27.34 | 24.43 | 155.31 |
| Ramanagara | 961.7 | 20.93 | 19.56 | 38.24 | 19.51 |
| Shimoga | 976.9 | 34.79 | 18.56 | 36.38 | 24.62 |
| Tumkur | 966.5 | 19.64 | 24.99 | 36.86 | 21.3 |
| Udipi | 1127.3 | 18.6 | 9.7 | 26.57 | 23.49 |
| Uttara Kannada | 969.8 | 28.67 | 8.37 | 52.74 | 8.82 |
| State | 963.6 | 33.98 | 20.64 | 41.67 | 28.92 |

Source: Computed from the data available in HPC FRRI (2002)

