# Social Sector Development Index of India: An Inter-State Analysis

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#### ABSTRACT

India's performance on various social development parameters including literacy, nutrition, infant mortality, gender disparity and social discrimination has remained poor. The social sector development depends on the pattern of public spending on various social services like education, health, water supply and sanitation, housing, the welfare of weaker sections (SCs, STs and OBCs) and social security etc. The disparities in the level of social sector development in India has widened because all states of India have not given equal importance to different components constituting the social sector. This might have led to an inequality in the human resource development and disproportionate economic growth across the Indian states. In this paper, an effort has been made to construct the social sector development index by using the different educational and health indicators. For constructing the social sector development index, 'Factor Analysis' has been employed to determine the relative weight of the selected indicators. The relative weights to various indicators have been assigned on the basis of all the principal components. Study found that inter-state variations have declined in terms of educational development index, health development index as well as social sector development index over the period 1992-93 to 2019-20.

Keywords: Education, Health, Development

## INTRODUCTION

The Indian Constitution directs the State to strive to minimise the inequalities in income, promote the educational and economic interests of the weaker sections of society, protect them from social injustice, improvement of public health and raising the level of nutrition and standard of living of its people (Govinda, 2020). India's performance on various social development parameters including literacy, nutrition, infant mortality, gender disparity and social discrimination has remained poor. The social sector development depends on the pattern of public spending on various social services like education, health, water supply and sanitation, housing, the welfare of weaker sections (SCs, STs and OBCs) and social security etc. The disparities in the level of social sector development in India has widened because all states of India have not given equal importance to different components constituting the social sector. This might have led to an inequality in the human resource development and disproportionate economic growth across the Indian states (Mishra et al., 2020).

The range of dimensions surrounding social development is actually infinite and the selection of relevant dimensions remains fundamental for constructing the social sector development index measure in a meaningful manner. In the Indian context, the measure may include people's well-being in health, education, basic amenities of life, employment and freedom from social discrimination. In this study, 26 indicators have been used to build the social sector development index in India.

# **Objectives and Methodology**

The objective of this study is to construct the social sector development index by using the different educational and health indicators. For constructing the social sector development index, 'Factor Analysis' has been employed to determine the relative weight of the selected indicators. The relative weights to various indicators have been assigned on the basis of all the principal components.

Educational development index, health development index and social sector development index has been constructed by using the weights obtained from all principal components for 29 Indian states. The analysis has been undertaken for the year 1992-93, 1998-99, 2005-06, 2015-16 and 2019-20.

## **Results and Discussion**

Table 1 shows the rankings and inter-state variations across Indian states in respect of educational development index during 1992-93 to 2019-20. Except three states like Bihar, Goa and Himachal Pradesh, the ranks of all Indian states have changed in terms of educational development index in 2019-20 as compared to 1992-93. During 1992-93 to 2019-20, the position of Nagaland and Meghalaya in educational development index has dropped by 17 ranks and 13 ranks respectively. The educational performance of Assam has improved by 6 ranks

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and the educational performance of Arunachal Pradesh and Madhya Pradesh has declined by 6 ranks during 1992-93 to 2019-20. The state of Jammu and Kashmir and Mizoram has shifted down by 7 ranks and 5 ranks respectively in terms of their educational performance during 1992-93 to 2019-20. The ranking of Himachal Pradesh, Kerala and Odisha in terms of their educational performance has remained same during 1992-93 to 1998-99 and the ranking of Goa, Karnataka and Delhi has remained same during 2015-16 and 2019-20. The ranking of Bihar in respect of educational development index has remained same during 1992-93 to 2019-20 except 2005-06. Karnataka has shifted up by 4 ranks while Gujarat, Meghalaya and Uttar Pradesh have shifted down by 4 ranks and Tamil Nadu has shifted down by 5 ranks in terms of their educational performance during 1992-93 to 1998-99. The position of Rajasthan in educational development index has decreased by 10 ranks and the position of Tripura in educational development index has decreased by 8 ranks during 2015-16 to 2019-20. Assam and West Bengal have shifted up by 12 ranks in terms of educational performance during 2015-16 to 2019-20.

The coefficient of variation reveals inter-state inequalities across Indian states in terms of educational development index during 1992-93 to 2019-20. The value of coefficient of variation has declined from 34.04 per cent in 1992-93 to 16.56 per cent in 2019-20. This has indicated that the inter-state inequalities across Indian states have declined over the period of time so far as their educational development index has concerned.

Table 2 presents the rankings and inter-state variations across Indian states in respect of health development index during 1992-93 to 2019-20. The ranks of all Indian states have changed in terms of health development index except Kerala and Rajasthan in 2019-20 as compared to 1992-93. During 1992-93 to 2019-20, the position of Bihar, Karnataka, Madhya Pradesh and Manipur in terms of health development index has gone down by 5 ranks and of Maharashtra by 11 ranks. The health performance of West Bengal has improved by 7 ranks while the performance of Gujarat and Meghalaya has lowered by 7 ranks during 1992-93 to 2019-20. The position of Gujarat, Madhya Pradesh, Maharashtra and Manipur in health development index has continuously declined during the period covered under study. Meghalaya and Nagaland have shifted down by 11 ranks and Arunachal Pradesh has shifted down by 7 ranks in terms of health performance during 1992-93 to 1998-99.

The position of West Bengal and Himachal Pradesh in health development index has shifted up by 7 ranks and 6 ranks respectively during 1992-93 to 1998-99. Nagaland and Arunachal Pradesh have shifted up by 14 ranks and 13 ranks respectively in terms of health performance and Maharashtra has shifted down by 8 ranks in terms of health performance during 2005-06 to 2019-20. Himachal Pradesh and Karnataka have dropped their position by 6 ranks in terms of health performance during 2005-06 to 2019-20. The position of Mizoram and West Bengal in health development index has improved by 5 ranks while the position of Punjab and Tamil Nadu has lowered by 5 ranks during 2005-06 to 2019-20. The ranking of Bihar and Chhattisgarh in terms of health development index has remained same during 2005-06, 2015-16 and 2019-20.

The coefficient of variation reflects the inter-state variations in respect of health development index in India during 1992-93 to 2019-20. Table reveals that the value of coefficient of variation has declined from 43.18 per cent in 1992-93 to 28.74 per cent in 2019-20. The declined value of coefficient of variation has indicated a converging trend across Indian states in terms of health development index. In other words, the inter-state disparities across Indian states have been declining over the period of time.

Table 3 shows the rankings and inter-state disparities across Indian states in respect of social sector development index during 1992-93 to 2019-20. Except five states such as Assam, Goa, Kerala, Puniab and Delhi, the ranks of all Indian states have changed in terms of social sector development index in 2019-20 as compared to 1992-93. The most significant progress has been observed in West Bengal as it improved its ranking in social sector development index by 6 positions, from eighteenth to twelfth during 1992-93 to 2019-20. Four states such as Meghalaya, Nagaland, Gujarat and Maharashtra have dropped their positions by 11 ranks, 10 ranks, 8 ranks and 7 ranks respectively in terms of social sector development index during 1992-93 to 2019-20. Nagaland, Meghalaya and Mizoram have shifted down by 7 ranks, 6 ranks and 4 ranks respectively in terms of their social sector development index during 1992-93 to 1998-99. Assam and Himachal Pradesh have improved their position in social sector development index by 4 ranks during 1992-93 to 1998-99. The ranking of states such as Bihar, Kerala, Madhya Pradesh, Maharashtra and Uttar Pradesh in terms of social sector development index has remained same during 1992-93 to 1998-99. Maharashtra and Meghalaya have dropped their position in social sector development index by 7 ranks and Gujarat has dropped its position by 6 ranks during 2005-06 to 2019-20. On the other hand, West Bengal and Jammu and Kashmir have shifted up by 5 and 4 ranks respectively during 2005-06 to 2019-20. The ranking of Goa, Kerala and Punjab in terms of social sector development index has remained same during 2005-06, 2015-16 and 2019-20. Tripura has shifted down by 7 ranks and West Bengal has shifted up by 8 ranks in terms of social sector development index during 2015-16 to 2019-20.

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Table 1 **Educational Development Index (EDI)** 

| States/UTs        | EDI 1992-93 | Rank | EDI 1998-99 | Rank | EDI 2005-06 | Rank | EDI 2015-16 | Rank | EDI 2019-20 | Rank |
|-------------------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| Delhi             | 0.823       | 3    | 0.829       | 2    | 0.800       | 2    | 0.810       | 1    | 0.811       | 1    |
| Goa               | 0.854       | 2    | 0.774       | 3    | 0.768       | 4    | 0.777       | 2    | 0.807       | 2    |
| Kerala            | 0.881       | 1    | 0.833       | 1    | 0.815       | 1    | 0.747       | 5    | 0.785       | 3    |
| Punjab            | 0.693       | 5    | 0.730       | 4    | 0.726       | 5    | 0.764       | 3    | 0.782       | 4    |
| Tamil Nadu        | 0.698       | 4    | 0.624       | 9    | 0.782       | 3    | 0.760       | 4    | 0.763       | 5    |
| Himachal Pradesh  | 0.660       | 6    | 0.667       | 6    | 0.681       | 7    | 0.721       | 8    | 0.730       | 6    |
| Sikkim            |             |      | 0.623       | 10   | 0.647       | 11   | 0.731       | 6    | 0.723       | 7    |
| Haryana           | 0.607       | 9    | 0.650       | 7    | 0.652       | 10   | 0.724       | 7    | 0.707       | 8    |
| Karnataka         | 0.462       | 12   | 0.629       | 8    | 0.639       | 12   | 0.708       | 10   | 0.705       | 9    |
| Uttarakhand       |             |      |             |      | 0.674       | 8    | 0.630       | 17   | 0.686       | 10   |
| Maharashtra       | 0.637       | 7    | 0.680       | 5    | 0.666       | 9    | 0.690       | 11   | 0.680       | 11   |
| Gujarat           | 0.568       | 10   | 0.520       | 14   | 0.611       | 13   | 0.721       | 8    | 0.648       | 12   |
| Mizoram           | 0.616       | 8    | 0.606       | 11   | 0.706       | 6    | 0.684       | 12   | 0.634       | 13   |
| Andhra Pradesh    | 0.436       | 15   | 0.491       | 16   | 0.506       | 17   | 0.639       | 16   | 0.616       | 14   |
| West Bengal       | 0.400       | 19   | 0.412       | 21   | 0.438       | 26   | 0.542       | 27   | 0.615       | 15   |
| Assam             | 0.367       | 22   | 0.384       | 23   | 0.468       | 23   | 0.393       | 28   | 0.611       | 16   |
| Uttar Pradesh     | 0.384       | 20   | 0.380       | 24   | 0.496       | 19   | 0.614       | 20   | 0.608       | 17   |
| Manipur           | 0.421       | 16   | 0.532       | 13   | 0.589       | 14   | 0.673       | 13   | 0.605       | 18   |
| Odisha            | 0.418       | 17   | 0.444       | 17   | 0.470       | 22   | 0.617       | 19   | 0.604       | 19   |
| Jammu & Kashmir   | 0.459       | 13   | 0.518       | 15   | 0.475       | 20   | 0.585       | 23   | 0.596       | 20   |
| Chhattisgarh      |             |      |             |      | 0.416       | 27   | 0.621       | 18   | 0.583       | 21   |
| Tripura           | 0.369       | 21   |             |      | 0.453       | 25   | 0.648       | 15   | 0.581       | 22   |
| Rajasthan         | 0.280       | 24   | 0.386       | 22   | 0.472       | 21   | 0.672       | 14   | 0.578       | 23   |
| Madhya Pradesh    | 0.414       | 18   | 0.436       | 19   | 0.506       | 17   | 0.609       | 21   | 0.566       | 24   |
| Bihar             | 0.262       | 25   | 0.250       | 25   | 0.164       | 29   | 0.544       | 26   | 0.553       | 25   |
| Jharkhand         |             |      |             |      | 0.323       | 28   | 0.591       | 22   | 0.500       | 26   |
| Meghalaya         | 0.439       | 14   | 0.439       | 18   | 0.555       | 15   | 0.392       | 29   | 0.456       | 27   |
| Nagaland          | 0.500       | 11   | 0.593       | 12   | 0.514       | 16   | 0.568       | 25   | 0.450       | 28   |
| Arunachal Pradesh | 0.311       | 23   | 0.419       | 20   | 0.465       | 24   | 0.569       | 24   | 0.420       | 29   |
| COV (%)           | 34.04       |      | 27.44       |      | 26.60       |      | 15.66       |      | 16.56       |      |

Source: Calculated from Selected Educational Statistics, GOI; State Profile 2005-06, MHRD; School Education in India, GOI; UDISE+ 2019-20

3

GRADIVA REVIEW JOURNAL ISSN NO: 0363-8057

Table 2

Health Development Index

| States/UTs        | Health<br>Development<br>Index 1992-93 | Rank | Health<br>Development<br>Index 1998-99 | Rank | Health<br>Development<br>Index 2005-06 | Rank | Health<br>Development<br>Index 2015-16 | Rank | Health<br>Development<br>Index 2019-20 | Rank |
|-------------------|--|------|--|------|--|------|--|------|--|------|
| Sikkim            |  |      | 0.658                                  | 5    | 0.767                                  | 3    | 0.762                                  | 3    | 0.819                                  | 1    |
| Kerala            | 0.779                                  | 2    | 0.824                                  | 1    | 0.871                                  | 2    | 0.885                                  | 1    | 0.769                                  | 2    |
| Mizoram           | 0.848                                  | 1    | 0.672                                  | 4    | 0.656                                  | 8    | 0.681                                  | 6    | 0.752                                  | 3    |
| Goa               | 0.767                                  | 3    | 0.759                                  | 2    | 0.898                                  | 1    | 0.810                                  | 2    | 0.737                                  | 4    |
| Nagaland          | 0.707                                  | 4    | 0.508                                  | 15   | 0.456                                  | 19   | 0.618                                  | 12   | 0.712                                  | 5    |
| Jammu & Kashmir   | 0.486                                  | 10   | 0.512                                  | 14   | 0.638                                  | 10   | 0.642                                  | 11   | 0.699                                  | 6    |
| Arunachal Pradesh | 0.493                                  | 9    | 0.494                                  | 16   | 0.412                                  | 20   | 0.672                                  | 7    | 0.655                                  | 7    |
| Delhi             | 0.599                                  | 6    | 0.716                                  | 3    | 0.730                                  | 5    | 0.693                                  | 5    | 0.650                                  | 8    |
| Tamil Nadu        | 0.470                                  | 11   | 0.597                                  | 9    | 0.762                                  | 4    | 0.661                                  | 9    | 0.648                                  | 9    |
| Manipur           | 0.634                                  | 5    | 0.629                                  | 8    | 0.641                                  | 9    | 0.653                                  | 10   | 0.642                                  | 10   |
| Punjab            | 0.562                                  | 7    | 0.638                                  | 7    | 0.688                                  | 6    | 0.710                                  | 4    | 0.637                                  | 11   |
| West Bengal       | 0.371                                  | 19   | 0.540                                  | 12   | 0.534                                  | 17   | 0.563                                  | 15   | 0.616                                  | 12   |
| Himachal Pradesh  | 0.436                                  | 12   | 0.648                                  | 6    | 0.664                                  | 7    | 0.600                                  | 13   | 0.608                                  | 13   |
| Tripura           | 0.375                                  | 18   |  |      | 0.540                                  | 16   | 0.671                                  | 8    | 0.560                                  | 14   |
| Haryana           | 0.398                                  | 17   | 0.530                                  | 13   | 0.555                                  | 13   | 0.561                                  | 17   | 0.554                                  | 15   |
| Uttarakhand       |  |      |  |      | 0.544                                  | 15   | 0.507                                  | 19   | 0.523                                  | 16   |
| Andhra Pradesh    | 0.418                                  | 14   | 0.488                                  | 17   | 0.551                                  | 14   | 0.523                                  | 18   | 0.518                                  | 17   |
| Karnataka         | 0.431                                  | 13   | 0.548                                  | 11   | 0.567                                  | 12   | 0.562                                  | 16   | 0.517                                  | 18   |
| Maharashtra       | 0.512                                  | 8    | 0.564                                  | 10   | 0.614                                  | 11   | 0.585                                  | 14   | 0.511                                  | 19   |
| Rajasthan         | 0.365                                  | 20   | 0.217                                  | 21   | 0.287                                  | 24   | 0.377                                  | 24   | 0.475                                  | 20   |
| Odisha            | 0.187                                  | 23   | 0.281                                  | 20   | 0.342                                  | 22   | 0.379                                  | 23   | 0.452                                  | 21   |
| Gujarat           | 0.414                                  | 15   | 0.472                                  | 18   | 0.474                                  | 18   | 0.477                                  | 21   | 0.424                                  | 22   |
| Meghalaya         | 0.409                                  | 16   | 0.174                                  | 25   | 0.294                                  | 23   | 0.494                                  | 20   | 0.395                                  | 23   |
| Assam             | 0.217                                  | 21   | 0.400                                  | 19   | 0.374                                  | 21   | 0.439                                  | 22   | 0.388                                  | 24   |
| Chhattisgarh      |  |      |  |      | 0.278                                  | 25   | 0.287                                  | 25   | 0.384                                  | 25   |
| Jharkhand         |  |      |  |      | 0.156                                  | 28   | 0.247                                  | 27   | 0.351                                  | 26   |
| Madhya Pradesh    | 0.212                                  | 22   | 0.182                                  | 23   | 0.198                                  | 26   | 0.260                                  | 26   | 0.322                                  | 27   |
| Uttar Pradesh     | 0.103                                  | 25   | 0.181                                  | 24   | 0.158                                  | 27   | 0.184                                  | 28   | 0.263                                  | 28   |
| Bihar             | 0.156                                  | 24   | 0.199                                  | 22   | 0.147                                  | 29   | 0.157                                  | 29   | 0.231                                  | 29   |
| COV (%)           | 43.18                                  |      | 38.68                                  |      | 41.88                                  |      | 34.48                                  |      | 28.74                                  |      |

Source: National Family Health Survey (various years)

GRADIVA REVIEW JOURNAL ISSN NO: 0363-8057

Table 3

Social Sector Development Index

| States/UTs        | Social Sector<br>Development<br>Index 1992-93 | Rank | Social Sector<br>Development<br>Index 1998-99 | Rank | Social Sector<br>Development<br>Index 2005-06 | Rank | Social Sector<br>Development<br>Index 2015-16 | Rank | Social Sector<br>Development<br>Index 2019-20 | Rank |
|-------------------|---|------|---|------|---|------|---|------|---|------|
| Kerala            | 0.830   | 1    | 0.829   | 1    | 0.843   | 1    | 0.816   | 1    | 0.777   | 1    |
| Goa               | 0.811   | 2    | 0.767   | 3    | 0.833   | 2    | 0.794   | 2    | 0.772   | 2    |
| Sikkim            |   |      | 0.641   | 6    | 0.707   | 5    | 0.747   | 4    | 0.771   | 3    |
| Delhi             | 0.711   | 4    | 0.773   | 2    | 0.765   | 4    | 0.752   | 3    | 0.731   | 4    |
| Punjab            | 0.628   | 5    | 0.684   | 4    | 0.707   | 5    | 0.737   | 5    | 0.710   | 5    |
| Tamil Nadu        | 0.584   | 7    | 0.611   | 9    | 0.772   | 3    | 0.711   | 6    | 0.706   | 6    |
| Mizoram           | 0.732   | 3    | 0.639   | 7    | 0.681   | 7    | 0.683   | 7    | 0.693   | 7    |
| Himachal Pradesh  | 0.548   | 9    | 0.658   | 5    | 0.673   | 8    | 0.661   | 9    | 0.669   | 8    |
| Jammu & Kashmir   | 0.473   | 13   | 0.515   | 14   | 0.557   | 14   | 0.614   | 15   | 0.648   | 9    |
| Haryana           | 0.503   | 11   | 0.590   | 10   | 0.604   | 12   | 0.643   | 11   | 0.631   | 10   |
| Manipur           | 0.528   | 10   | 0.581   | 12   | 0.615   | 10   | 0.663   | 8    | 0.624   | 11   |
| West Bengal       | 0.386   | 18   | 0.476   | 17   | 0.486   | 18   | 0.553   | 20   | 0.616   | 12   |
| Karnataka         | 0.447   | 14   | 0.589   | 11   | 0.603   | 13   | 0.635   | 13   | 0.611   | 13   |
| Uttarakhand       |   |      |   |      | 0.609   | 11   | 0.569   | 19   | 0.605   | 14   |
| Maharashtra       | 0.575   | 8    | 0.622   | 8    | 0.640   | 9    | 0.638   | 12   | 0.596   | 15   |
| Nagaland          | 0.604   | 6    | 0.551   | 13   | 0.485   | 19   | 0.593   | 17   | 0.581   | 16   |
| Tripura           | 0.372   | 19   |   |      | 0.497   | 17   | 0.660   | 10   | 0.571   | 17   |
| Andhra Pradesh    | 0.427   | 15   | 0.490   | 16   | 0.529   | 16   | 0.581   | 18   | 0.567   | 18   |
| Arunachal Pradesh | 0.402   | 17   | 0.457   | 18   | 0.439   | 20   | 0.621   | 14   | 0.538   | 19   |
| Gujarat           | 0.491   | 12   | 0.496   | 15   | 0.543   | 15   | 0.599   | 16   | 0.536   | 20   |
| Odisha            | 0.303   | 22   | 0.363   | 20   | 0.406   | 23   | 0.498   | 22   | 0.528   | 21   |
| Rajasthan         | 0.323   | 20   | 0.302   | 23   | 0.380   | 24   | 0.525   | 21   | 0.527   | 22   |
| Assam             | 0.292   | 23   | 0.392   | 19   | 0.421   | 22   | 0.416   | 27   | 0.500   | 23   |
| Chhattisgarh      |   |      |   |      | 0.347   | 26   | 0.454   | 23   | 0.484   | 24   |
| Madhya Pradesh    | 0.313   | 21   | 0.309   | 21   | 0.352   | 25   | 0.435   | 25   | 0.444   | 25   |
| Uttar Pradesh     | 0.244   | 24   | 0.281   | 24   | 0.327   | 27   | 0.399   | 28   | 0.436   | 26   |
| Jharkhand         |   |      |   |      | 0.240   | 28   | 0.419   | 26   | 0.426   | 27   |
| Meghalaya         | 0.424   | 16   | 0.307   | 22   | 0.425   | 21   | 0.443   | 24   | 0.426   | 27   |
| Bihar             | 0.209   | 25   | 0.225   | 25   | 0.156   | 29   | 0.351   | 29   | 0.392   | 29   |
| COV (%)           | 34.98   |      | 31.47   |      | 32.28   |      | 21.22   |      | 18.80   |      |

Source: Author's Calculations.

The values of coefficient of variation for different years have reflected the regional disparities across Indian states in terms of social sector development index during 1992-93 to 2019-20. Table shows that the inter-state variations in terms of social sector development index have decreased over the period of study as the value of coefficient of variation has declined from 34.98 per cent in 1992-93 to 18.80 per cent in 2019-20.

#### Section-IV

# **Conclusion and Policy Implications**

There is a need of huge investment in social sector to achieve social equity, environmental sustainability and Sustainable Development Goals (SDGs). Even though the State governments have spent more on social sector as compared to the Central government, the social sector development has not found to be homogenous across the states of India. Study found that except few states, the ranks of almost all Indian states have changed in terms of educational development index, health development index and social sector development index in 2019-20 as compared to 1992-93. The ranking of some states has improved while that of others has declined during 1992-93 to 2019-20 in respect of educational development index, health development index and social sector development index.

Further, study found that during 1992-93 to 2019-20, the position of Nagaland and Meghalaya in educational development index has dropped by 17 ranks and 13 ranks respectively. The educational performance of Assam has improved by 6 ranks and the educational performance of Arunachal Pradesh and Madhya Pradesh has declined by 6 ranks during 1992-93 to 2019-20. Among the 29 Indian states, Kerala has occupied the top position with highest value of educational development index while Bihar has placed at the bottom in terms of educational development index ranking during 1992-93, 1998-99 and 2005-06. However, during 2015-16 and 2019-20 Delhi has occupied the top position with highest value of educational development index. During 1992-93 to 2019-20, the position of Nagaland and Meghalaya in educational development index has dropped by 17 ranks and 13 ranks respectively. The educational performance of Assam has improved by 6 ranks and the educational performance of Arunachal Pradesh and Madhya Pradesh has declined by 6 ranks during 1992-93 to 2019-20. The ranking of Himachal Pradesh, Kerala and Odisha in terms of their educational performance has remained same during 1992-93 to 1998-99. Rajasthan has shifted down by 10 ranks and Tripura has shifted down by 8 ranks in terms of educational performance during 2015-16 to 2019-20. Assam and West Bengal have shifted up by 12 ranks in terms of educational performance during 2015-16 to 2019-20. The declined value of coefficient of variation indicates that the inter-state inequalities across Indian states have decreased over the period of time so far as their educational development index has concerned.

Regarding health development index, it has been found that during 1992-93 to 2019-20, the position of Bihar, Karnataka, Madhya Pradesh and Manipur has gone down by 5 ranks and the position of Maharashtra has declined by 11 ranks. The health performance of West Bengal has improved by 7 ranks while the performance of Gujarat and Meghalaya has lowered by 7 ranks during 1992-93 to 2019-20. The most significant progress has been observed in West Bengal as it improved its ranking in health development index by 7 positions, from nineteenth to twelfth during 1992-93 to 2019-20. Kerala has occupied the top position with highest value of health development index during 1998-99 and 2015-16. Bihar has been placed at the bottom with lowest value of health development index during 2005-06, 2015-16 and 2019-20. Meghalaya and Nagaland have shifted down by 11 ranks and West Bengal has shifted up by 7 ranks in terms of their health performance during 1992-93 to 1998-99. Nagaland and Arunachal Pradesh have shifted up by 14 ranks and 13 ranks respectively in terms of health performance and Maharashtra has shifted down by 8 ranks in terms of health performance during 2005-06 to 2019-20. The ranking of Bihar and Chhattisgarh in terms of health development index has remained same during 2005-06, 2015-16 and 2019-20. The declined value of coefficient of variation has indicated a converging trend across Indian states in terms of health development index.

The most significant progress has been observed in West Bengal as it improved its ranking in social sector development index by 6 positions, from eighteenth to twelfth during 1992-93 to 2019-20. Four states such as Meghalaya, Nagaland, Gujarat and Maharashtra have dropped their positions by 11 ranks, 10 ranks, 8 ranks and 7 ranks respectively in terms of social sector development index during the same period. The state of Kerala followed by Goa has secured the top position with highest value of social sector development index over the period of time. On the other hand, Madhya Pradesh, Uttar Pradesh and Bihar have placed at the bottom so far as their social sector development index ranking has concerned. Nagaland, Meghalaya and Mizoram have shifted down by 7 ranks, 6 ranks and 4 ranks respectively in terms of their social sector development index during 1992-93 to 1998-99. The

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ranking of states such as Bihar, Kerala, Madhya Pradesh, Maharashtra and Uttar Pradesh in terms of social sector development index has remained same during 1992-93 to 1998-99. Maharashtra and Meghalaya have dropped their position in social sector development index by 7 ranks and Gujarat has dropped its position by 6 ranks during 2005-06 to 2019-20. Tripura has shifted down by 7 ranks and West Bengal has shifted up by 8 ranks in terms of social sector development index during 2015-16 to 2019-20. The ranking of Goa, Kerala and Punjab in terms of social sector development index has remained same during 2005-06, 2015-16 and 2019-20. The declined value of coefficient of variation indicates that inter-state variations in terms of social sector development index have fallen over the period of study. Overall, study found that inter-state variations have declined in terms of educational development index, health development index as well as social sector development index over the period 1992-93 to 2019-20.

Education and health of the population significantly affects social development as well as economic progress of the country. Therefore, it is imperative to ensure equitable access to health care and educational services by identifying priority areas and making improvements in quality of health care and educational services.

## Policy implications flow from the analysis and results of the study

To attain better education and enjoying the highest attainable standard of health are the fundamental rights of every human. Therefore, government should deliver quality basic education and healthcare to all their citizens especially, the poor people. Access to quality healthcare and educational facilities should not be restricted only to the rich section of the society. It must reach the doorstep of the poorest of the poor. In developing countries, nutrition along with health, has considered not only as an end in itself but also a means to improve the productivity of labour and quality of human resources. Some Indian states such a have focused on mid-day meal programmes to improve the nutritional status of children whereas other states have concentrated on indirect measures such as supply of cereals to the poorer households at highly subsidized rates. In India, the nutritional status of majority of population has considered to be very low. The WHO has recommended that the government should spend at least five per cent of GDP on the health sector in order to provide decent health care to most of the population of a country.

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