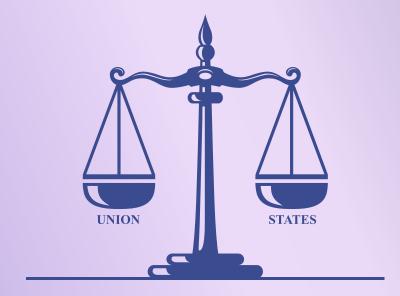


## **REPORT FOR THE YEAR 2020-21**





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November 2019

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#### LIST OF ABBREVIATIONS

ACS Average Cost of Supply

ADP Aspirational District Programme

ADR Alternate Dispute Resolution

AMRUT Atal Mission for Rejuvenation and Urban Transformation

ARR Average Rate of Return

ASFR Age Specific Fertility Rate

AT&C Aggregate Technical and Commercial

CAG Comptroller and Auditor General

CAPI Computer Assisted Personal Interviewing

CCEA Cabinet Committee on Economic Affairs

CGA Controller General of Accounts

CPI Consumer Price Index

CSS Centrally Sponsored Scheme

CST Central Sales Tax

DDP District Domestic Product
DISCOM Distribution Companies

DLSA District Legal Services Authorities

DRI Disaster Risk Index

FRBM Fiscal Responsibility and Budget Management

GDP Gross Domestic Product

GSDP Gross State Domestic Product

GST Goods and Services Tax

ICDS Integrated Child Development Scheme

IFMIS Integrated Financial Management Information System

IGST Integrated GST

IIP Index of Industrial ProductionIMF International Monetary Fund

IP Interest Payment

MH Major Head

MoEF&CC Ministry of Environment Forest and Climate Change

MoHRD Ministry of Human Resource Development

MoHUA Ministry of Housing and Urban Affairs

MoSPI Ministry of Statistics and Programme Implementation

MoWCD Ministry of Women and Child Development

MSP Minimum Support Price

NBFCs Non-Banking Financial Companies

NCCD National Calamity Contingent Duty

NCCF National Calamity Contingency Fund

NCR National Capital Region

NDMA National Disaster Management Authority

NDMF National Disaster Mitigation Fund
NDRF National Disaster Response Fund

NDRMF National Disaster Risk Management Fund

NE&H States North East and Himalayan States NFHS National Family Health Survey

NFSA National Food Security Act

NIDM National Institute of Disaster Management

NMAM National Municipal Accounts Manual

NPS New Pension Scheme

NSO National Statistical Office

ODF Open Defecation Free

ONTR Own Non Tax Revenue

ORR Own Revenue Receipts

OTR Own Tax Revenue

PDNA Post-Disaster Needs Assessment
PDR Deficit Pre-Devolution Revenue Deficit

PFMS Public Financial Management System
PMGSY Pradhan Mantri Gram Sadak Yojana

PRIAsoft Panchayati Raj Institutions Accounting Software

PSUs Public Sector Undertakings

RBA Rashtriya Barh Ayog
RBI Reserve Bank of India

SDG Sustainable Development Goal

SDL State Development Loans

SDMA State Disaster Management Authority

SDMF State Disaster Mitigation Fund
SDRF State Disaster Response Fund

SDRMF State Disaster Risk Management Fund

SFC State Finance Commission

SIDM State Institute for Disaster Management

SMEs Small and Medium Enterprises

SNP Supplementary Nutrition Programme

TFR Total Fertility Rate
ToR Terms of Reference

TPI Trade Preparedness Index

TRE Total Revenue Expenditure

UDAY Ujwal DISCOM Assurance Yojana

UNDP United Nations Development Programme

UT Union Territory
VAT Value Added Tax

### **Chapter 1**

## **Approach and Summary**

- 1.1 The Fifteenth Finance Commission (FC-XV) was constituted by the President of India under Article 280 of the Constitution on 27 November 2017 to make recommendations for a period of five years commencing 1 April 2020. The terms of reference (ToR) and the composition of the Commission are annexed with this report (Annex 1.1 to 1.6). The Commission was expected to make its recommendation by 30 November 2019. The Commission has visited nearly all the States, undertaken detailed consultations with the Union Government, think-tanks, domain experts and relevant stakeholders. Even as the work of the Commission was in a fairly advanced stage, designed towards submitting the report by the stipulated date, there were new developments.
- 1.2 First was the enactment of the Jammu and Kashmir Reorganisation Act, 2019, leading to the creation of two new Union Territories. The Commission needs to closely examine how best the needs of the Union Territory of Jammu and Kashmir can be addressed keeping in view all relevant factors.
- 1.3 Second, the global scenario is unpredictable and experiencing a synchronised slowdown. After successive downward revisions, the International Monetary Fund (IMF) forecast global growth for 2019 at 3 per cent, which is the lowest since the global financial crisis of 2008-09, with further downside risk. The United States-China trade war enhances the uncertainty and a volatile geo-political backdrop has implications for the behaviour of oil output and prices in the medium term. These contribute to the global uncertainty and slowdown. The IMF has observed that this synchronised slowdown will result in slower growth for 90 per cent of the world this year and that it will be more visible in some of the largest emerging markets such as India and Brazil.
- 1.4 Third, like many other countries, India too is going through a period of economic sluggishness. The growth in real gross domestic product (GDP) is expected to slow down from 7.2 per cent in 2017-18 to around 6 per cent estimated for 2019-20. The slowdown is driven by both external and domestic factors. While investment and exports have been slowing since 2011-12, the slowdown in consumption since early 2018, partly associated with a sharp decline in consumer confidence, is more worrying. Confidence, debt and risk aversion issues in the financial sector continue, imparting a downward bias to the short-term growth forecasts by different government and private agencies. The Union Government and the Reserve Bank of India (RBI) have acted to address the slowdown through various measures such as making monetary policy more accommodative, a slew of structural measures to boost housing, exports and small and medium enterprises as well as with a sharp cut in corporate tax to make India a competitive

investment destination. The Union Government expects all of these measures to start bearing results over the next few quarters.

- 1.5 Weak revenue collections, driven by slowing activity as well as teething problems in implementing some of the newly introduced structural reforms, have elevated the fiscal risks. With real economic growth at a seven-year low, combined with relatively low inflation, growth has been weak in nominal terms as well, leading to a weak tax base. Nominal GDP growth in the last reported quarter was a low 8 per cent. Not surprisingly, revenue collections have been sluggish. The collections under goods and services tax (GST) are running short of the target by nearly Rs. 1 lakh crore (at least a similar level of shortfall vis-à-vis originally envisaged targets was reported in the 2018-19 accounts), with structural implications for the low consumption states. Also, direct tax collections have performed weakly. The total revenue foregone in 2019-20 as a result of the reduction in corporate tax rates and other relief measures is estimated by the Ministry of Finance at Rs. 1.45 lakh crores (0.7 per cent of GDP; 19 per cent of corporate tax revenues and 6 per cent of gross tax revenues). The revenue loss may turn out to be less than initially estimated because some corporates may not avail of the lower corporate tax rates.
- 1.6 Significantly, the current slowdown in India also coincides with major structural reforms in the economy over the last five years a new monetary policy framework; a bankruptcy code for resolution of stressed assets; demonetisation; introduction of GST in July 2017; a new corporate tax order; a series of other announcements by the Union Government to boost the housing sector and exports; plans to privatise a large set of public sector entities including oil companies; and introduction of direct tax reforms.
- 1.7 The short-term transitional difficulties in implementing these structural reforms can create a pessimistic view on the medium-term prospects of economic growth and revenue collections. For example, slow input tax refunds on GST collections have depressed growth for many small and medium enterprises (SMEs). Importantly, the economy is going through a unique process of formalisation and digitalisation post demonetisation and introduction of GST. While this process would lead to enhanced productivity, higher wages and incomes in the medium term, it is creating significant challenges in the short term.
- 1.8 Recent announcements to expedite GST refunds (sixty and thirty days for new and existing refunds respectively) should alleviate some of these bottlenecks. Similarly, some of the other announcements such as measures to boost the housing and exports sectors, credit guarantees for non-banking financial companies (NBFCs), expedited payments by public sector undertakings to SMEs, should all work to address the supply bottlenecks and raise aggregate demand. The RBI has reduced interest rates sharply (by 135 basis points) during this easing cycle over a short period of eight months and has also taken steps to enhance the speed of transmission of its policies to the real economy. All these changes would require some time to filter through the economy, and may start to get reflected in the economic data over the next few quarters. Going forward, growth should respond to the measures taken by the Union Government and RBI so far to boost the economy by improving financial conditions, sentiment and confidence.

- 1.9 Forecast uncertainty is high around major structural changes in any economy. It is particularly so if changes are of the magnitude experienced by India over recent years. Many of these changes have a wide-ranging impact on GDP, the financial sector and the behaviour of the private sector. The behaviour of fiscal variables too is influenced by the induced changes in nominal GDP and tax buoyancy. Forecasts tend to run the risk of being either excessively myopic or unduly exuberant. It is important, therefore, to tread with caution. The structural changes and the ensuing behavioural pattern need to play out for a while so as to allow a robust assessment of the impact of these changes and enable more credible forecasting for the medium term.
- 1.10 The Commission believes that in view of the uncertainties outlined above, making credible projections for five years using the current year as the base runs the risk of turning out to be excessively aspirational and inaccurate. Alternatively, projections attended by excessive conservatism that is reasonable in the current conjecture may result in forecasts not only way below India's growth potential but also lower than what could be the outcome. This would be true not just for the Union Government, but also for the States. We need, therefore, to tread with caution and wait for the next few quarters' figures on key macro variables.
- 1.11 In the light of the aforesaid consideration, the Commission is submitting this *Report for the Year 2020-21*.
- 1.12 Given the uncertainties of some key macro areas, our recommendations in the final report would undergo changes and adjustments as appropriate, in the light of subsequent data and analysis.

#### **Approach and Recommendations**

- 1.13 As we have to give our recommendations for the financial year 2020-21, we considered the option of either continuing with the architecture of the FC-XIV for another year beyond March 2020, with nominal increment in the projections over our assessment for 2019-20, or alternately addressing the issues in the light of our own analysis and understanding developed after interactions with the States and Union Government. We are guided in our approach by our ToR, which is a departure from that of our predecessor and yet retains some broad themes of previous Finance Commissions by way of continuity. Keeping in view the fact that there has to be a certain degree of predictability and stability in federal finances, our approach to vertical devolution mirrors that of our predecessor Commissions with modifications due to the change in the status of Jammu and Kashmir. The significant points of departure are:
  - (i) Our ToR clearly stipulates that we use the population data of 2011 for our recommendations. As population is a major factor in the determination of the devolution formula, and it is also used for scaling other criteria, our recommendations are appropriately calibrated to address the parameters of equity and efficiency in the devolution of resources to the States.

- (ii) The ToR enjoining us to use the population data of 2011 created apprehensions that in the process those States that have achieved greater progress in reducing population growth since 1971 would be adversely affected. We have attempted to dispel these doubts by introducing a new criterion of total fertility rate (TFR) as a measure of demographic performance.
- (iii) During our interactions with the States and the Union Government, it was argued that issues relating to environment and climate change need to be given greater impetus and attention. We have continued with the approach of the FC-XIV in this regard, with a higher weightage to forest and ecology not only because of their impact on the revenue disabilities and expenditure needs of States, but also for the huge ecological benefits to the nation and for meeting our international commitments.
- (iv) Incentivising tax effort had received the attention of several Commissions, though the FC-XIV did not use it as a criterion. At a time when fiscal consolidation is a matter of concern, we have chosen to address it in our devolution mechanism.
- (v) We have provided grants-in-aid for local bodies, disaster relief and for States with a post devolution revenue deficit. As the recommendations of this report are only for one year, we have refrained from giving any State-specific grants but have provided a road-map for sector-specific grants and performance-based incentives that we expect to address in greater detail in the final report.
- 1.14 Based on the aforesaid architecture, the Commission has made the following key macro assumptions. The Union Budget of 2019-20 implied a nominal GDP growth of 11 per cent in 2019-20, but the nominal growth observed in the first quarter (Q1) of 2019-20 was only 8 per cent. The economic data released subsequently do not show any perceptible improvement in economic activity. Nonetheless, since the GDP growth rates of Q2 to Q4 of 2018-19 were low, there is a base advantage in the subsequent quarters of the current year. The supply side measures announced by the Union Government may also have a positive impact on economic activity. Taking a full view of the possible growth rates during Q2 to Q4 of the current year, we have assessed that nominal GDP growth in 2019-20 would be 10 per cent with a downward bias. With some pick-up in economic activity and a mild increase in inflation rate, the nominal GDP can be expected to grow at 11 per cent in 2020-21.
- 1.15 Our assessment of gross tax revenue of the Union Government for 2019-20 and 2020-21 is based on the provisional accounts for 2018-19. Based on recent trends and tax policy changes, our assessment is that gross tax revenue for 2019-20 will be about Rs. 22.55 lakh crore, against the budget estimate of Rs. 24.61 lakh crore. The Commission's projection of gross tax revenue for 2020-21 is based on the reassessed level of this revenue for 2019-20. We expect overall tax buoyancy to improve to 1.14 in 2020-21, translating into a gross tax revenue of Rs. 25.38 lakh crore. The expenditure projections spelt out by the Union Budget 2019-20 were adopted by the Commission, with a modest downward adjustment.

- 1.16 The approach followed in the projection of gross state domestic product (GSDP) has been to progressively reduce the variability in growth observed across States in the previous years. For making an assessment of the revenue and expenditure of States, we broadly followed the approach of previous Finance Commissions. We applied norms for projections from the base year after making adjustments to the latest available actuals (2017-18). The tax buoyancy for States was projected uniformly at 1.16 during the period 2018-19 to 2020-21. For assessing the revenue expenditure of States, we took a disaggregated view on the committed and other revenue expenditure to arrive at the State-wise projections for 2020-21. The aggregate revenue expenditure of all the States taken together shows an average growth of 9.4 per cent in 2020-21.
- 1.17 For the year 2020-21, we are inclined to leave the vertical split of the divisible pool at the same level as recommended by the FC-XIV. However, we have to take into account recent changes due to the re-organisation of the erstwhile State of Jammu and Kashmir. We have notionally estimated that the share of the erstwhile State of Jammu and Kashmir would have come to around 0.85 per cent of the divisible pool. We believe that there is a strong case for enhancing this to 1 per cent of the divisible pool to meet the security and other special needs of the Union Territories of Jammu and Kashmir and Ladakh. Since this enhancement has to be met from the Union's resources, we recommend that the aggregate share of States may be reduced by 1 percentage point to 41 per cent of the divisible pool.
- 1.18 The Commission sought to balance the principles of fiscal needs, equity and performance for determining the criteria for horizontal sharing. Another important principle followed is the broad need for stability and predictability in transfers. Towards these objectives, the criteria and associated weights for determining horizontal sharing of taxes is summarised in Table 1.1.

Table 1.1: Criteria and Weights Assigned for Horizontal Devolution

| Criteria                | Weight (%) |
|-------------------------|------------|
| Population              | 15.0       |
| Area                    | 15.0       |
| Forest and Ecology      | 10.0       |
| Income Distance         | 45.0       |
| Demographic Performance | 12.5       |
| Tax Effort              | 2.5        |
|                         | 100        |

1.19 We recommend revenue deficit grants and special grants, besides laying out the broad contours of the sectoral grants and performance-based incentives that we intend to provide in the final report. This should enable governments to undertake the necessary preparatory work during 2020-21 to optimise the utilisation of resources in the remaining period of the award. Based upon

our assessment of the post-devolution revenue surplus/deficit of the States for 2020-21, we have estimated that fourteen States will need revenue deficit grants amounting to Rs. 74,340 crore. We have also provided special grants of Rs. 6,764 crore for three States in which the sum of tax devolution and revenue deficit grants is projected to decline in 2020-21 over 2019-20. Malnutrition of infants is a human capital issue that cannot wait to be addressed. Hence we have made an exception in the case of the nutrition sector by giving it a grant of Rs. 7,735 crore in 2020-21 itself.

- 1.20 The Commission has received a large number of proposals for State-specific grants. However, given the financial constraints in 2020-21, we propose to make appropriate recommendations on such grants in our final report.
- 1.21 We recommend an amount of Rs. 90,000 crore as grants to local bodies for 2020-21, which is 4.31 per cent of the estimated divisible pool. We have also identified the need to increase the inter se share of local bodies grants for urban areas from the 30 per cent given by FC-XIV, as we regard cities as engines of growth. Furthermore, unlike the FC-XIV, we have now provided grants to all the three tiers of panchayats, as also to areas under the Fifth and Sixth Schedule of the Constitution and Cantonment Boards in urban areas. While 50 per cent grants to rural local bodies are untied, the remaining 50 per cent would be tied as grants for sanitation and water supply which are identified national priorities. For rural local bodies, no conditions have been prescribed for getting the grants in 2020-21. However, from 2021-22 onwards, the entry level conditions for rural local bodies getting these grants is the timely submission of audited accounts.
- 1.22 In the case of urban local bodies, we differentiated between cities by dividing them into two categories: (a) Million-Plus urban agglomerations/cities and (b) all other cities and towns with less than one million population. Larger cities will have a tendency to grow faster, and grants are provided to fifty Million-Plus cities on agglomeration basis, with special emphasis on meeting the challenges of poor air quality, ground water depletion and sanitation. For non Million-Plus towns, 50 per cent of the funds are untied and the remaining 50 per cent tied, with an equal share for drinking water and sanitation. Though we have not recommended any conditions for urban local bodies in 2020-21, we recommend two entry level conditions in the subsequent years notifying the floor or minimum rates of property tax to improve own revenues and timely submission of audited accounts.
- 1.23 For determining state-wise allocations for disaster risk management, we recommend a new methodology which combines capacity (as reflected through past expenditure), risk exposure (area and population) and proneness to hazard and vulnerability (disaster risk index). The total amount recommended for the States is Rs. 28,983 crore in 2020-21, of which Rs. 22,184 crore is the Union share. In line with the provisions of the Disaster Management Act, 2005, we recommend the setting up of mitigation funds at both national and state levels in the form of a National Disaster Mitigation Fund (NDMF) and State Disaster Mitigation Funds (SDMF). We have also recommended funds for the National Disaster Response Fund (NDRF) since the levy of National Calamity Contingent Duty (NCCD) utilised to fund it has now largely been subsumed under the GST.

#### Fiscal Roadmap

- 1.24 The tax revenue of the Union and States in India stood at around 17.5 per cent of GDP in 2018-19 far below India's estimated tax capacity and has remained broadly unchanged since the early 1990s. In contrast to India, tax revenue has been rising in other emerging markets. There is a compelling case for raising India's tax ratio from both macroeconomic and redistributive perspectives. Additional tax revenue is essential for building fiscal space to meet infrastructure needs and drive inclusive growth. Most importantly, the driver of tax reforms must be broadening of the base and streamlining the rates, with parallel steps to increase the capacity and expertise of the tax administration at all tiers of government.
- 1.25 Para 5 of the Commission's ToR mandates us to review the finance, deficit, debt and fiscal discipline efforts of the Union and the States and recommend a roadmap for sound fiscal management. However, in the light of the aforesaid analysis, a credible fiscal and debt trajectory roadmap remains problematic. While the budget estimates for the fiscal deficit of the Union Government for the current year remains 3.3 per cent, there is anecdotal, analytical and other evidence to suggest that this may not be achieved. The Commission believes that while the actual fiscal numbers for the current fiscal year would only be better known next year, the letter and spirit of the Fiscal Responsibility and Budget Management (FRBM) Act, 2003 (as amended in 2018) should be fully adhered to.
- 1.26 Meanwhile, the Union Government has the option to invoke the escape clause in the amended FRBM Act and deviate from the stipulated fiscal target by 0.5 per cent of GDP. The trigger conditions for invoking the escape clause include "structural reforms in the economy with unanticipated fiscal implications". In doing so, the Government should also ensure that there is a "clear commitment to return to the original fiscal target in the ensuing year".
- 1.27 The Commission also believes that apart from the fiscal deficit, the Union Government and State Governments should also comply with the recommended path of debt consolidation. In doing so, they must abide by the definition of both debt and fiscal deficit as contained in the FRBM Act, which recognises issues connected with off-budget borrowings, contingent liabilities and guarantees.

## Chapter 2

# **Assessment of the Union and the State Finances for 2020-21**

#### Context and Approach

2.1 This chapter outlines our projection of the revenue, expenditure and deficit of the Union and State Governments for the year 2020-21. Projections for the Union Government for 2020-21 have been made based on the budget estimates for 2019-20, calibrated to reflect the Commission's assessment of developments subsequent to the presentation of the Union Budget in July 2019. Projections for the State Governments are based on the Finance Accounts for 2017-18 and the State Budgets of 2019-20.

#### Finances of the Union Government

#### **Gross Domestic Product**

- 2.2 Gross domestic product (GDP) at current market prices, or nominal GDP, forms the basis for important fiscal ratios of the Union Government. The Union Budget of 2019-20 implied GDP growth of 11 per cent in 2019-20 over GDP of Rs. 190.1 lakh crore in 2018-19. This was expected to take the GDP of 2019-20 to Rs. 211 lakh crore. However, the nominal GDP growth observed in the first quarter (Q1) of 2019-20 was only 8 per cent. The economic data released subsequent to Q1 of 2019-20 do not show any perceptible acceleration in economic activity.
- 2.3 Nonetheless, since the GDP growth rates of Q2 to Q4 of 2018-19 were low, there is a base advantage in the subsequent quarters of the current year. The Union Government expects that the supply side measures it has announced will also have a positive impact on economic activity. Taking a full view of the possible growth rates during Q2 to Q4 of the current year, we have assessed nominal GDP growth in 2019-20 at 10 per cent, with a downward bias (Figure 2.1). This implies that GDP at current market prices will be at a level of Rs. 209.1 lakh crore in 2019-20.

<sup>&</sup>lt;sup>1</sup>There are borrowings outside the Consolidated Fund, which, de jure, may not add to the debt of the relevant government but may do so in de facto terms. Such quasi-fiscal operations are not reflected in the calculations in this chapter of the Report.

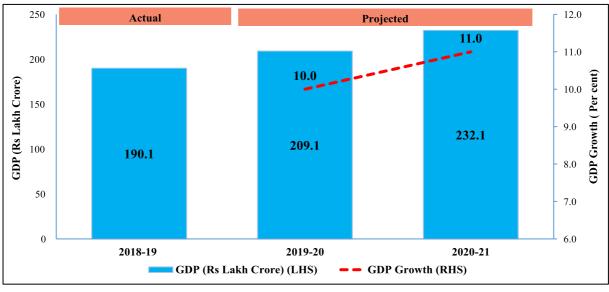


Figure 2.1: Nominal GDP and its Growth

2.4 With expected pick-up in economic activity and a mild increase in the inflation rate, the nominal GDP is projected to grow at 11 per cent in 2020-21 and reach Rs. 232.1 lakh crore (Figure 2.1).

#### **Gross Tax Revenue**

Reassessment of 2019-20

- 2.5 Assessment of gross tax revenue for 2019-20 and 2020-21 is based on the provisional accounts of the Union Government for 2018-19, which was Rs. 20.80 lakh crore. Going by the available trends till October 2019, there is likely to be a sizeable shortfall in gross tax revenue for the year as a whole, vis-à-vis the budget estimates of July 2019. The shortfall reflects, apart from the unanticipated slowdown in economic activity, the tax policy changes made by the Union Government subsequent to the regular budget.
- 2.6 The slowdown in important sectors like automobiles, garments and construction that contribute to goods and services tax (GST) collections has significantly affected aggregate revenue growth. Considering the sluggishness in imports, it is likely that the custom duty collections for 2019-20 will also be moderately short of the budget estimates. The bulk of the excise duty collections of the Union Government are from petroleum products and most of the tax rates on these products are specific rates. The tepid growth in the consumption of petroleum products in the current year indicates that there will also be downward pressure on excise collections.
- 2.7 On the direct tax front, personal income tax grew by 8.9 per cent during April-September 2019. However, the revenue foregone on account of the reduction in the rate of tax for existing and new domestic companies and other relief measures has affected corporate tax collections.

Keeping these considerations in view, the Commission's assessment, with a downward bias, is that gross tax revenue for 2019-20 will be about Rs. 22.55 lakh crore, vis-à-vis the budget estimate of Rs. 24.61 lakh crore. This will mean growth of 8.4 per cent from the provisional figure of Rs. 20.80 lakh crore in 2018-19, implying low tax buoyancy of 0.84, driven down mainly because of tax policy changes.

#### Gross Tax Revenue for 2020-21

- 2.8 The Commission's projection of gross tax revenue for 2020-21 is based on the reassessed level of gross tax revenue for 2019-20. The expected low tax buoyancy in 2019-20 (continuing from the previous year) is mostly on account of tax policy changes. Hence, stability in tax policy should restore tax buoyancy in 2020-21 to the levels observed in the past. Tax buoyancy can also improve if the teething troubles associated with GST get mitigated, especially after the simplification of the reporting format and other possible changes that may be effected. Expected improvements in the tax database and efforts at widening the direct tax net can also help improve collections in 2020-21. The Commission, hence, expects that tax buoyancy will improve to 1.14 in 2020-21, which is around the average of 2011-12 to 2016-17, the six years prior to the introduction of the GST. With a projected GDP growth of 11 per cent, this will mean that the gross tax revenue will grow by 12.5 per cent in 2020-21 and achieve a level of Rs. 25.38 lakh crore. Details are at Annex 2.1 of this report.
- 2.9 The pool of tax resources of the Union Government to be shared with the States the divisible pool excludes the following items from gross tax revenue: cost of collection of taxes, cesses and surcharges including the GST compensation cess, tax revenue of the Union Territories and transfer from the National Calamity Contingency Duty (NCCD) to the National Disaster Response Fund (NDRF). Taking the difference between the projected gross tax revenue and the items to be excluded from the divisible pool, we have estimated that the divisible pool will be around 82.2 per cent of the gross tax revenue in both 2019-20 and 2020-21. The corresponding amounts work out to Rs. 18.53 lakh crore in 2019-20 and Rs. 20.86 lakh crore in 2020-21.
- 2.10 Annex 2.1 combines the Commission's recommendation for vertical sharing of taxes between the Union Government and the States presented in Chapter 3 with the projection of gross tax revenue presented in this chapter, and provides the projection of the States' share of taxes for the year 2020-21.

#### Non Tax Revenue

2.11 Non-tax revenue consists mainly of dividends and profits from public sector undertakings and entities, dividends and surpluses from the Reserve Bank of India (RBI), receipts from the auction of spectrum, interest receipts and other receipts. Non-tax revenue for 2019-20 is budgeted at Rs. 3.13 lakh crore.

- 2.12 Subsequent to the Union Budget of July 2019, the RBI announced its central board's decision to transfer a sum of Rs. 1.76 lakh crore to the Government of India. After adjusting the interim dividend paid to the Government in 2018-19, and after accounting for other gains and shortfalls in the different components of non-tax revenue, the total non-tax revenue of the Union Government for 2019-20 is estimated at Rs. 3.55 lakh crore.
- 2.13 In a growing economy, non-tax revenue, especially of dividends and profits, can be reasonably expected to keep pace with GDP growth, while revenues from fees, fines and user charges should outpace GDP growth. During 2011-12 to 2017-18, the non-tax revenue of the Union grew almost at the same rate as the GDP. Hence, the Commission has taken a consolidated view of the non-tax revenue for 2020-21 and conservatively projected it to grow at the rate of GDP growth. This will take the non-tax revenues to Rs. 3.94 lakh crore in 2020-21.

#### **Gross Revenue Receipts**

2.14 The sum of gross tax revenue and non-tax revenue – gross revenue receipts – is reassessed to be at Rs. 26.10 lakh crore in 2019-20 and Rs. 29.32 lakh crore in 2020-21.

#### **Non-debt Capital Receipts**

- 2.15 Non-debt capital receipts have two components recovery of loans and advances and proceeds from public sector disinvestment. The receipts under recovery of loans and advances have been declining over the years, because of negligible fresh lending to the States except through back-to-back transfer of loans against externally-aided projects. We have adopted the budget estimate of Rs. 14,828 crore in 2019-20 and kept it at the same level for 2020-21.
- 2.16 In 2017-18, the total receipts from disinvestment were a little over Rs.1 lakh crore. The disinvestment receipts were Rs. 85,045 crore in 2018-19 (provisional actual) and are budgeted at Rs. 1.05 lakh crore in 2019-20. The pace of disinvestment is expected to pick up in the later part of the year. We have adopted the budget estimate for disinvestment and assessed that it will remain at the same level in 2020-21.

#### **Revenue Expenditure**

#### Interest Payments

2.17 Interest payment liabilities of the Union Government depend on three factors — level of interest-bearing outstanding liabilities, effective interest rate on these liabilities and weighted interest rate on incremental borrowings. Considering the progressive easing of policy interest rates by the RBI, the Commission has assumed that the interest rate on fresh borrowings will be 6 per cent. Applying standard calculations for arriving at the average interest cost and projecting the fiscal deficit of the Union Government at 3.5 per cent of GDP in 2020-21 (the rationale for which is detailed later), the interest payment liabilities of the Union for 2020-21 work out to Rs. 7.10 lakh crore.

#### Pensions and Salaries

2.18 We have adopted the budget estimates of pensions and salary expenditure for 2019-20. Considering the normal annual increment of 3 per cent to the pay of employees, dearness allowances aligned to consumer inflation that is assumed to be within the targeted band and continuation of the trend in the size of the Union Government, we estimate that the pay and allowances of the Union Government will grow at 8 per cent in 2020-21. We also estimate that the annual growth in pensions will be 9 per cent in 2020-21, taking into account the enhanced contribution of the Government share for the New Pension Scheme (NPS). While arriving at these estimates, we have also considered the average growth in pensions and salaries in those years which were not affected by the implementation of the last two pay commissions.

#### Defence Revenue Expenditure

- 2.19 Defence revenue expenditure consists of salaries of defence services and civilians in the defence segment, other establishment expenditure and expenditure on maintenance of defence assets. Out of the defence revenue expenditure, 56.9 per cent was spent on the pay and allowances of the forces and another 5.1 per cent was on account of the pay and allowances of the civilians in 2017-18.
- 2.20 We have adopted the budget estimates of 2019-20 as the base. The salary component of defence expenditure is assessed to grow at 8 per cent in 2020-21, consistent with the growth in salaries of other employees of the Union Government. The Commission's view is that the non-salary component should be allowed to grow at a robust pace so as to allow for a reasonable level of maintenance of defence assets. An annual growth of 11 per cent in total defence revenue expenditure allows the expenditure on maintenance of defence assets (the non-salary component of defence revenue expenditure) to grow at around 15.5 per cent in 2020-21, compared to an average growth of about 8 per cent in previous two years.

#### Major Subsidies

- 2.21 Food, fertilizer and petroleum subsidies are the major subsidies presented in the Union Budget. Report 20 of 2018 of the Comptroller and Auditor General of India (CAG) on Union Finances showed that the full impact of subsidies was not absorbed in the Union Budget for a number of years. Our view is that the accumulated off-budget liabilities relating to insufficient provision for subsidies should be clearly identified and not increase further. Further, the outstanding balance should be eliminated in a time-bound manner.
- 2.22 The budget estimate for 2019-20 accommodated the requirements of food subsidy for the year plus a fractional provision to take care of previous balances. We have adopted this estimate of Rs. 1.84 lakh crore. Given the current levels of minimum support price (MSP) and beneficiary coverage under the National Food Security Act (NFSA), growth in food subsidy is likely to be largely limited to the inflation indexation of MSP. We have projected that for 2020-21, provision

of an amount equalling the budget estimates of 2019-20 will take care of the full subsidy requirements for that year, without requiring off-budget financing. Besides, we expect that the Union Government will take steps to increase the central issue prices of subsidised food grains, which is permissible under the NFSA. This, coupled with the much-required improvement in the operational efficiency of food-handling agencies, including the Food Corporation of India, will create fiscal space for liquidation of some part of the previous years' liabilities.

2.23 Considering the trends in disbursements of petroleum subsidy and fertilizer subsidy till September 2019, we have adopted the budget estimates for 2019-20 for these items. We have also adopted an increase of 4 per cent in these subsidies in 2020-21 over the budget estimates of 2019-20.

#### Other Revenue Expenditure

2.24 The remaining portion of revenue expenditure (excluding transfers to sub-national governments) includes the non-salary, non-subsidy expenditure in different sectors by the Union Government and its institutions. This expenditure increased significantly in the budget estimates of 2019-20, vis-a-vis the provisional actuals of 2018-19. This is partly due to the increase in the allocation for Pradhan Mantri Kisan Samman Nidhi from Rs. 20,000 crore in 2018-19 (revised estimate) to Rs. 75,000 crore in 2019-20 (budget estimate). The Commission has adopted the spending plans of the Union Government with a modest downward adjustment of about 2 percentage points in the budgeted revenue expenditure. For 2020-21, we have assessed a growth provision equalling the projected GDP growth for this part of expenditure, providing for important sectors like science and technology, atomic energy, external affairs, space, etc.

#### Transfers to the States, Union Territories and Local Governments

- 2.25 The transfers from the Union Government to the States, Union Territories and local self-governments on the revenue account consist mainly of schematic transfers (central sector schemes and centrally sponsored schemes), GST compensation, revenue deficit grants, grants for disaster relief funds, grants to the local self-governments and other grants recommended by the Finance Commission.
- 2.26 As per the budget estimates for 2019-20, these transfers totalled Rs. 5.96 lakh crore on the revenue account. We have adopted this budget estimate. We have projected transfers to the subnational governments<sup>2</sup> at Rs. 7.22 lakh crore on the revenue account for the year 2020-21. This has been done for the following reasons: (a) the Finance Commission grants including revenue deficit grants, grants for disaster relief and grants to local bodies are binding expenditures for the Union Government; (b) considering sluggish trends in tax collection, the requirement for GST compensation will be high; and (c) reduction in schematic transfers will constrain the State budgets, especially in a year of revenue strain. Details are presented at Annex 2.1 of this report.

<sup>&</sup>lt;sup>2</sup>This also factors in requirements of the Union Territory of Jammu and Kashmir.

2.27 The sum of the projections of the different components of revenue expenditure yields a growth of 10.8 per cent in the aggregate revenue expenditure of the Union Government for 2020-21.

#### Capital Expenditure and Fiscal Deficit

- 2.28 Financing expenditures, which should legitimately be covered within the budget, through off-budget borrowings and through para-statal entities detracts from compliance with the letter and spirit of the Fiscal Responsibility and Budget Management (FRBM) Act, 2003 (amended in 2018). The Commission will address this issue in its final report.
- 2.29 We are of the view, therefore, that there is an imperative need to ensure that there is no further addition to the extra-budgetary funding of budgetary expenditure and that the accumulated stock of such liabilities gets eliminated in a time-bound manner. Hence, the revenue expenditure projections spelt out by the Union Budget 2019-20 have been adopted by the Commission, with some adjustments, as the base for projection. If the fiscal consolidation path is to be maintained, the Union Government will have to calibrate its expenditure and revenue appropriately.
- 2.30 At this stage, the economy requires to be supported with public investment. Keeping in view the need to sustain capital expenditure at reasonable levels, and taking a disaggregated view of the different components of expenditure and also assuming no further increase in off-budget financing, we have estimated that the fiscal deficit of the Union Government in 2020-21 will be around 3.5 per cent of GDP (Annex 2.2). Annex 2.1 presents the Commission's assessment of Union finances for 2020-21.

#### **Security Related Expenditure**

- 2.31 We have been given additional Terms of Reference asking us to examine whether a separate mechanism for funding defence and internal security is to be set up, and if so, how such a mechanism should be operationalised.
- 2.32 In this regard, we have received the views of the ministries of Defence and Home Affairs and also examined the trend of capital outlay of defence services over the last decade. The defence capital outlay was less than the budgetary provision for five years from 2011-12 to 2015-16. We have noticed a reversal in this trend during 2016-17 to 2018-19.
- 2.33 The Ministry of Defence stated that though India is currently not engaged in any conflict, the nature of threats that it faces demands complete defence preparedness. Big defence acquisitions require large capital outlays. The current provisions are inadequate to fund these and hence the need for alternate sources of additional funding.
- 2.34 The Ministry has proposed setting up a non-lapsable fund, levy of cess, monetisation of surplus land and other assets, tax-free defence bonds and utilising the proceeds of disinvestment

of defence public sector undertakings. The Commission, with the objective of ensuring predictability and stability in the flow of funds for defence and internal security, intends to constitute an expert group comprising representatives of the ministries of Defence, Home Affairs and Finance to consider the detailed modalities and implementation plan for accretion to, and utilisation of, the proposed non-lapsable fund or an alternative mechanism.

#### Finances of the State Governments

#### **Approach of the Commission**

2.35 We have adopted principles and procedures for assessing revenue and expenditure of the States, keeping in view the approach followed by previous Finance Commissions, past trends and recent changes. Considering that budget and revised estimates differ significantly from the actuals, the base year (2017-18, the year for which the latest Finance Accounts are available) was calibrated with required adjustments to ensure comparability of data across States. Wherever relevant, the budget estimates of 2019-20 have been used. We also commissioned studies by leading research institutions on the finances of the States. The findings of these studies were useful in making our assessment.

#### Adjustments in Receipts and Expenditure

- 2.36 Assessment of the fiscal variables of the States entailed developing a comparable data set from the Finance Accounts for 2017-18 with the following adjustments:
  - i. Lotteries: If net receipt from lotteries (that is, receipts on lotteries at major head (MH) 0075 minus expenditure under MH 2075) was positive, the same was added back to the receipts. If the net receipt from lotteries was negative, it was assumed to be zero.
  - ii. Power sector: For all the States, we removed the revenue receipts on power (MH 0801). From revenue expenditure, we deducted grants and subsidies on power (from MH 2801). Revenue expenditure on account of the Ujwal Discom Assurance Yojana (UDAY) was also removed (MH 2801). For the States where the power sector is run departmentally, if the net receipt on power (MH 0801-MH 2801) was negative, the same was taken as zero. However, if the net receipt was positive, we factored that into the assessment of receipts.
  - iii. Transport undertakings: For the transport sector, we carried out adjustments similar to those for the power sector.
  - iv. Grants in aid from the Union Government: We removed the following items of expenditure which were based on the Union Government grants: (a) revenue expenditure on account of scheme-based Central assistance and (b) grants-in-aid for local self governments. In the case of calamity relief, the expenditure on the same from MH (2245) was excluded from the base year. Considering that the States will have to provide a

matching share in the State Disaster Response Fund (SDRF), this portion has been projected separately for 2020-21 (reference Chapter 6) and added back to revenue expenditure.

- v. Major State-specific subsidies, that is, food subsidy and loan waiver, have been adjusted in such a way as to ensure uniformity and comparability of data across States.
- vi. VAT, CST and GST Compensation: Compensation received by States on account of value-added tax (VAT), central sales tax (CST) and GST have been deducted from grants and added to the own tax revenue of the States.
- vii. IGST transfers to the States: The Integrated GST (IGST) amount transferred to the States in 2017-18, using the formula for tax devolution of the Fourteenth Finance Commission (FC-XIV), has been added to each State's own tax revenue as per the ratio of an individual State's own tax revenue to the all-States' own tax revenue in 2017-18.
- viii. Reserve Fund Expenditures: Revenue expenditure from the reserve funds (except Consolidated Sinking Fund and Guarantee Redemption Fund) have been netted out.
- ix. Contra Entry for Receipts/ Payments: Receipts/payments of contra-entry nature have been removed from both non-tax receipts and revenue expenditure. For example, in the case of irrigation projects, some States pay interest on capital, which may get reflected in own non-tax revenue as interest receipts. Entries of such nature have been adjusted to avoid double counting.

#### **Gross State Domestic Product**

- 2.37 Gross state domestic product (GSDP) forms the basis for analysing fiscal parameters of the States. Comparable estimates of GSDP of States for the period 2011-12 to 2017-18 have been provided by the National Statistical Office (NSO). These estimates ensure that the principles and methodology employed in estimation are uniform across the States. The base year for the projection of GSDP is 2017-18. The approach followed in the projection of GSDP has been to progressively reduce the variability in growth observed across the States in the previous years.
- 2.38 The aggregate GSDP growth has been anchored around the country's GDP growth during the 2018-19 to 2020-21 period in a manner as to reduce the vast variability in GSDP growth observed in the recent years. The North East and Himalayan States<sup>3</sup> (NE&H States) have been differentiated from the general States and the former have been projected to grow at a slightly lower growth rate than the latter (Figure 2.2 and Annex 2.3). We have noted that growth rates of GSDP for 2018-19 are available for many States from the State's own calculations. However, keeping in mind the difficulty involved in combining different series of GSDP and the need for ensuring comparability, growth rates have been normatively projected from 2018-19.

<sup>&</sup>lt;sup>3</sup>North East and Himalayan states are Arunachal Pradesh, Assam, Himachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura and Uttarakhand

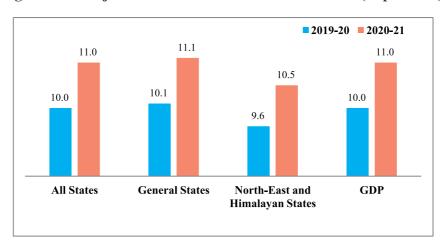


Figure 2.2: Projected Rate of Growth in GSDP/GDP (in per cent)

#### **Own Taxes of States**

- 2.39 Until June 2022, States' GST revenues are protected by a scheme of guaranteed compensation by the Union Government under an assured annualised 14 per cent growth path of revenue from taxes subsumed under GST, with the base taken as 2015-16. The protection of GST revenues at the rate of 14 per cent, set against the growth in aggregate GSDP of 11 per cent in 2020-21, yields a buoyancy of 1.27.
- 2.40 Non-GST taxes of the States should show significant improvement in rate structure, compliance and collections because these taxes have shown lower buoyancy than the taxes subsumed under GST. However, considering that the recent slowdown in economic activity is affecting collections from non-GST taxes, the tax buoyancy of States (including of GST and non-GST taxes) is assessed at a uniform 1.16 with respect to GSDP during 2018-19 to 2020-21. This is consistent with the implied buoyancy of GST for these three years, combined with the assumption of a buoyancy marginally above 1 for non-GST taxes.

#### **Own Non-tax Revenues**

2.41 Own non-tax revenues of the States include interest receipts, dividends and profits, royalties, irrigation receipts, receipts from forestry and wildlife, receipts from elections, etc. These revenues grew at a trend rate of 9.9 per cent during 2011-12 to 2017-18. For 2020-21, we have taken a macro view on non-tax revenue and projected that, with focus on rationalising fees and user charges, these revenues should keep pace with the growth in GSDP of each State.

#### Revenue Expenditure

2.42 Adjusted revenue expenditure for 2017-18 (adjustments being those mentioned earlier at para 2.36) forms the basis for projection. Expenditure on interest payment, salaries, pensions,

elections, disaster management and compensation and assignment to local bodies have been projected separately. This is because the factors that determine the growth in these items are different from those that determine the rest of the revenue expenditure. The aforesaid items have been added back to the revenue expenditure once the remaining projection is complete. The norms adopted for assessment of different items of expenditure are presented below.

#### Interest payments

2.43 A two-stage procedure has been adopted for the projection of interest payments for 2020-21. The budget estimates of 2019-20 have been adopted as the base for projection. The projected addition to the stock of outstanding liabilities during the year 2020-21 has been taken to be 3 per cent of the GSDP of each State for that year. We have further assumed that the interest rate on fresh borrowings of the State Governments will be a uniform 6.6 per cent. Standard calculations based on these assumptions yielded a growth rate of interest payments for each State for 2020-21 over the levels in 2019-20 – some above 10 per cent and some below 10 per cent. In the second stage of the projection, the projected growth rates in excess of 10 per cent have been brought down to 10 per cent, while the growth rates below 10 per cent have been kept unchanged.

#### Salaries

2.44 The consolidated expenditure on salaries in 2017-18 served as the base for projections. For the States that had not implemented the pay commission award in or before 2017-18, a one-time normative increase of 18 per cent in their salary expenditure has been provided for in 2018-19 or 2019-20 (depending on the expected/notified year of implementation), and a growth of 8 per cent per annum thereafter has been assumed till 2020-21. For those States that implemented the pay commission award in or before 2017-18, a growth of 8 per cent per annum has been projected for the period 2018-19 to 2020-21. Those general states that had per capita revenue expenditure below the average of all general states in 2017-18 have been provided a higher growth of 9 per cent per annum in salaries. These States are Bihar, Chhattisgarh, Jharkhand, Madhya Pradesh, Odisha, Uttar Pradesh and West Bengal.

#### Pensions

2.45 The budget estimates of pension payments for 2019-20 have been adopted as the base for projection. The pension payments of the States have been projected to grow at a uniform rate of 9 per cent in 2020-21, which will meet the needs of inflation indexation, growth in the number of pensioners and the States' commitments under the NPS.

#### Election

2.46 We have devised a methodology to take care of the different State election cycles. We considered the pattern of election-related expenditure of the previous five years and projected each year with a five-year inflation indexation at the rate of 4 per cent per annum from the base year (that is, five years before). Thus, the election expenditure in 2020-21 has been projected with a five-year inflation indexation at the rate of 4 per cent per annum upon the election expenditure in 2015-16.

#### Compensation and Assignments to Local Self-governments

2.47 The States assign taxes to local self-governments based on the recommendations of the State Finance Commissions. A uniform growth of 8 per cent has been applied to the budget estimates of 2019-20 of compensation and assignments to the local self-governments of all States to arrive at the projections for 2020-21.

#### Remaining Part of Revenue Expenditure

2.48 The remaining revenue expenditure of the States (apart from disaster/calamity related expenditure, which has been mentioned at para 2.36) contains the non-salary component of four major items: (a) the States' contribution to the schemes with Central assistance; (b) expenditure on schemes formulated and implemented by State Governments; (c) expenditure on maintenance of assets; and (d) establishment expenditure other than salaries. The Commission has decided to provide for a growth equal to the average GSDP growth of each year to this composite component of expenditure. It is expected that the States will provide adequately for developmental schemes and maintenance of assets created with great effort and cost. Those general states that had per capita revenue expenditure below the average of all general states have been provided a higher growth of 13.0 per cent per annum in this component of expenditure.

#### Aggregate Revenue Expenditure and Pre-Devolution Revenue Deficit

2.49 With the aforesaid methodology for projection, the aggregate revenue expenditure of all the States taken together shows growth of 9.4 per cent in 2020-21. The resulting estimation of the pre-devolution revenue deficit is also presented in Annex 2.4.

#### **Conclusions**

2.50 The Commission has calibrated the outlook for economic growth in 2019-20 and 2020-21 to the changed dynamics. Considering the trends in 2019-20 so far, the budget estimates of gross tax revenue of the Union Government have been reassessed considerably. We have broadly

adopted the revenue expenditure of the Union Government for 2019-20, with a modest downward adjustment, and made projections for 2020-21 on a normative basis.

- 2.51 We have noted the proliferation of centrally sponsored schemes and central sector schemes and the tendency to continue with them without an evaluation of their outcomes. It is our expectation that the Union Government will utilise the year 2020-21 to complete the review of such schemes and thereafter prune and rationalise the list to focus on certain key sectors and interventions with nation-wide externalities. The objective in our view should be to ensure that there is a minimum level of expenditure on certain desired sectors to improve human development and infrastructure. This will also reduce pressure on the revenue account of the Union to enable higher capital expenditure within the available fiscal space. We are also of the view that such rationalisation will allow the Union Government to rein in its expenditure, including allocation for fresh initiatives, within our projections for 2020-21.
- 2.52 In the case of the States, the growth rates in GSDP have been aligned to the GDP growth in such a way that the observed variability in growth across States declines gradually. The tax buoyancy for the States have been projected uniformly for 2020-21, based on the assumption that the GST revenue will be protected at an annualised 14 per cent growth. Taking a disaggregated view on the committed and other revenue expenditure of the States, the Commission arrived at its expenditure projections for the States in 2020-21. The Commission's effort has been to balance the concerns of fiscal space for the States, the limitations of revenue base of both the Union and the States and the need to foster fiscal consolidation.
- 2.53 The Commission has noted the tendency of the Union and State Governments to borrow outside the Consolidated Fund, leading to accumulation of extra-budgetary liabilities. The debt calculations presented in Annex 2.1 include the stock of extra-budgetary resources of the Union Government to the extent disclosed in the Union Budget 2019-20. Such disclosures are not available for the States as a whole. We recommend that in the interest of transparency, both the Union and the States need to make full disclosure of extra-budgetary borrowings. Outstanding extra-budgetary liabilities need to be clearly identified and eliminated in a time-bound manner with transparent reporting of deficit and debt as provided in the amended FRBM Act of 2018.



# **Chapter 3**

# Towards Cooperative Federalism: Vertical and Horizontal Devolution

- 3.1 Para 4 (i) of this Commission's terms of reference (ToR) which flows from Article 280(3) of the Constitution mandates the Commission to make recommendations regarding, "the distribution between the Union and the States of the net proceeds of taxes which are to be, or may be, divided between them under Chapter I, Part XII of the Constitution and the allocation between the States of the respective shares of such proceeds."
- 3.2 Recommendations on the division of net proceeds of taxes¹ collected by the Union forms the core of our work. The distribution of these net proceeds, which constitute the divisible pool of taxes, between the Union and the States is called vertical devolution. The first part of this chapter covers, among other things, trends in vertical devolution, our views and approach on vertical devolution and our recommendations on vertical devolution.
- 3.3 The second part of the ToR mandates the Commission to recommend the inter se distribution of the aggregate taxes which are to be devolved amongst States or horizontal devolution. The second part of this chapter covers the Commission's views on the horizontal imbalance existing among States, historical perspective on horizontal sharing, approach of this Commission and its recommendations on inter se shares of States in devolution.

#### **Vertical Devolution**

3.4 Until the Tenth Finance Commission (FC-X), separate percentages had been recommended for devolution of income tax and Union excise duties. However, after the Eightieth amendment to the Constitution, net proceeds of taxes collected by the Union are shareable with the States. States' share in the divisible pool recommended by last four Finance Commissions since the Eightieth amendment is given in Table 3.1.

**Table 3.1: States' Share in Divisible Pool (in per cent)** 

|                                 | FC-XI     | FC-XII    | FC-XIII   | FC-XIV    |
|---------------------------------|-----------|-----------|-----------|-----------|
|                                 | (2000-05) | (2005-10) | (2010-15) | (2015-20) |
| States' share in divisible pool | 29.5      | 30.5      | 32.0      | 42.0      |

<sup>&</sup>lt;sup>1</sup>Article 270 and 279 read together defines 'Net proceeds of taxes' as all the taxes reduced by cost of collection and cess & surcharges

- 3.5 The FC-XIV expressed the view that tax devolution should be the primary route of transfer of resources to States, since it is formula based and thus conducive to sound fiscal federalism. Driven by this view and the inclusion of Plan revenue expenditure in its assessment, it recommended 42 per cent of the divisible pool for sharing with the States, against 32 per cent recommended by the FC-XIII. While recommending such a significant jump, the FC-XIV did not envisage significantly higher aggregate transfers out of the gross resources of the Union but a compositional shift in the overall transfers to States in favour of greater tax devolution as compared to grants.
- 3.6 After careful examination of the behaviour of inter-governmental transfers during the award period of the FC-XIV as well as the earlier period, we note that tax devolutions are a more objective form of transfer of resources as compared to other forms of transfers which are more discretionary and empirically found to be less progressive.
- 3.7 Stability and predictability of resources is an essential component of good long-term budgeting for both the Union and States. Flow of resources for both the core administrative functions and developmental initiatives are determined by policy. It is, therefore, our considered view that there should be broad continuity in the availability of resources.
- 3.8 More importantly, we note that a higher proportion of tax devolution vis-à-vis grants enables higher revenues to the States, especially when there is higher buoyancy of Union taxes. In the event of any decline in revenues, the burden is shared by both. However, the Union is best suited to take measures to impart macro-economic stability and should be left with sufficient fiscal cushion to take those steps.
- 3.9 For the year 2020-21, we are thus inclined to leave the vertical split of the divisible pool at the same level as recommended by the FC-XIV. However, we have to take into account recent changes due to the re-organisation of the erstwhile State of Jammu & Kashmir.
- 3.10 The State of Jammu & Kashmir was reorganised into the Union Territories (UT) of Ladakh and Jammu & Kashmir through the Jammu & Kashmir Reorganisation Act, 2019. Article 280 (a) and (b) of the Constitution, read along with Section 6 of the Jammu and Kashmir Reorganisation Act puts the newly-created UTs of Ladakh and Jammu and Kashmir outside the purview of the Finance Commission's award. Since UTs are the responsibilities of the Union, they are within the purview of the Union budget. We have notionally estimated that the share of the erstwhile State of Jammu & Kashmir would have come to around 0.85 per cent of the divisible pool. We believe that there is a strong case for enhancing this to 1 per cent of the divisible pool in order to meet the security and other special needs of the Union Territories of Jammu and Kashmir and Ladakh. Since this enhancement has to be met from the Union' Government's resources, we recommend that aggregate share of States may be reduced by 1 percentage point to 41 per cent of the divisible pool.
- 3.11 Therefore, we recommend an aggregate share of 41 per cent of the net proceeds of Union taxes (divisible pool) to be devolved to States in the year 2020-21.

# **Horizontal Devolution**

3.12 After determining the States' aggregate share in the divisible pool, our next task is to recommend the horizontal devolution among the States. In the past, this has been mainly driven by considerations of fiscal need, equity and performance. Some Finance Commissions have also given due regard to the fiscal disabilities and fiscal discipline in the devolution formula. Table 3.2 summarises the criteria used and weights assigned by the last four Commissions.

Table 3.2: Criteria and Weights in Previous Finance Commissions

(in per cent)

| Criteria                 | FC-XI     | FC-XII    | FC-XIII   | FC-XIV    |
|--------------------------|-----------|-----------|-----------|-----------|
|                          | (2000-05) | (2005-10) | (2010-15) | (2015-20) |
| Population (1971)        | 10.0      | 25.0      | 25.0      | 17.5      |
| Population (2011)        |           |           |           | 10.0      |
| Area                     | 7.5       | 10.0      | 10.0      | 15.0      |
| Forest cover             |           |           |           | 7.5       |
| Index of infrastructure  | 7.5       |           |           |           |
| Income distance          | 62.5      | 50.0      |           | 50.0      |
| Fiscal capacity distance |           |           | 47.5      |           |
| Tax effort               | 5.0       | 7.5       |           |           |
| Fiscal discipline        | 7.5       | 7.5       | 17.5      |           |
|                          | 100.0     | 100.0     | 100.0     | 100.0     |

- 3.13 The basic objective of a horizontal devolution formula is to enable the States to provide basic public goods and services with equivalent tax effort. Achieving this may entail: (i) filling up the vertical fiscal gap of the States; (ii) providing horizontal equity (by providing higher share to poorer regions); (iii) equalising the fiscal capacities of States (revenue equalisation); (iv) providing for cost differentials in States for basic public service (expenditure equalisation); and (v) ensuring that the States have enough incentives to mobilise own revenue and spend them appropriately in an efficient manner.
- 3.14 A fiscal gap exists in all States due to the structural mismatch between States' own resources and their committed/development expenditure liabilities. To meet the first objective of filling the vertical gap of the States, any transfer of resources requires to be determined on need-based criteria. Per capita transfers based on population and cost disabilities need to be factored in for such purpose.
- 3.15 Given the large differences in the resource base available and status of development within the country, fiscal equalisation is an essential objective to be kept in mind while distributing resources among States.

- 3.16 We have also taken into account fiscal needs, equity and performance principles for determining the criteria for horizontal sharing. Need is the basic tenet of inter-governmental resource transfer. Each State has its own unique enablers as well as disabilities, irrespective of the policy choices made. We address such cost and economic differentials by applying the equity principle and equalising fiscal capacities. The efficiency principle has also been applied to reward and incentivise States to perform better, in terms of utilisation of resources available to them.
- 3.17 Another important principle followed is the broad need for stability and predictability in transfers. Hence, all three principles of need, equity and efficiency (performance) have been balanced by assigning appropriate weightages. Based on the above principles and considerations, this Commission finds it appropriate to use the following criteria in the devolution formula.

#### **Need Based Criteria**

#### **Population**

- 3.18 The population of a State represents the needs of the State to incur expenditure for providing services to its residents. It is also a simple and transparent indicator that has a significant equalising impact.
- 3.19 Many States in their memoranda have raised concerns over the use of population data of 2011 for the purpose of devolution. Their concern is that the States which have controlled their population would be at a disadvantage if the latest population data is used instead of population data from the 1971 Census, which has been used by the last nine Finance Commissions since the FC-VI (1974-79) while making their recommendations. Nevertheless, all the States have suggested that population criteria be retained in the formula. Para 8 of this Commission's ToR specifies that "the Commission shall use the population data of 2011 while making recommendations." Our immediate predecessor, the FC-XIV, had expressed the view that though the use of dated population data is unfair, it is bound by its ToR. This Commission is of the view that fiscal equalisation being recommended by it is for the present needs of the States and this is best represented by the latest census data. Given the specific ToR to use 2011 population data, there is no further choice for this Commission.
- 3.20 As some of the other criteria of the devolution formula will also be scaled by it, the population will also get reflected through the overall devolution formula. Hence, standalone population criterion has been assigned a weight of **15 per cent.** Annex 3.1 contains the method and calculation table for the inter se shares under this criterion.

#### Area

3.21 All Finance Commissions since the FC-X have used area as a criterion in the devolution formula on the grounds of need –larger the area greater is the expenditure requirement for providing comparable services. A majority of the States have suggested retaining area as a

criterion. We agree with the argument that larger area incurs some additional administrative costs for the State. However, it may not lead to a proportional increase in cost of providing services. Hence, we have maintained a moderate weight of **15 per cent for the area** criterion in consonance with FC-XIV approach. It is also true that certain minimum costs are incurred by the States even if the area is very small. Hence, we have continued with the adjustments done by previous Finance Commissions while calculating the shares of geographical area of the States, by assigning a floor of 2 per cent share to those States with less than 2 per cent share in the actual area. Annex 3.2 gives the actual geographical area, area share and adjusted area shares of States as calculated by this Commission.

# Forest and Ecology

- 3.22 Forest cover was used as a criterion in the devolution formula for the first time by the FC-XIV on the grounds that while the forest cover maintained by States provide ecological benefits, it also imposes opportunity costs that need to be compensated. The FC-XIV assigned 7.5 per cent weight to forest cover in the devolution formula.
- 3.23 Many States have suggested forest cover or some variation of it as a criterion in the devolution formula. Some have also suggested including tree cover outside the forest, mangrove forest, incremental change in forest etc. as criteria. Some others have suggested that forest cover may be dropped as a criterion. We have also commissioned studies by domain experts on the impact of including forest cover in the devolution formula. These studies have helped strengthen our view that given the importance of forests and environmental issues in present times, it is important to retain the forest criterion in the devolution formula. There are also cogent arguments that this criterion is needed as a reward for providing ecological services and to overcome the disabilities arising from areas dedicated to dense forests (areas covered by very dense and moderately dense forests).
- 3.24 The forest and ecology criterion is for the ecological services being provided by a State's forest cover to the country as a whole. This is arrived at by calculating the share of the dense forest of each State in the aggregate dense forest of all the States. We have assigned a higher weight of **10 per cent for the forest and ecology** criterion. The increase in weight is also a recognition of the forest, a global public good, as a resource that ought to be preserved and expanded through afforestation of degraded and open forests for national benefit as well as to meet our international commitments. Annex 3.3 gives the forest cover and shares of States in the criterion.

# **Equity-based Criterion**

#### Income Distance

3.25 Distance of per capita income has been used by many previous Commissions as an equity criterion in the devolution formula, with weights assigned ranging from 33.5 per cent by the FC-

IX to 62.5 per cent by the FC-XI. This criterion is to make the devolution formula more equalising and progressive, and provides higher devolution to States with lower per capita income (and lower own tax capacity). Here, per capita gross state domestic product (GSDP) is used as a proxy for the distance between States in tax capacity. Poorer States with low per capita income also have higher expenditure needs to provide for comparable services. Hence, the income distance criterion helps in providing for two-sided equalisation.

- 3.26 Almost all the States have suggested retaining the income distance criterion in the horizontal devolution formula. Horizontal equity is thus an important redistributive aspect which can be achieved through this criterion. Hence, this Commission has **retained the income distance criterion with a weight of 45 per cent.**
- 3.27 Income distance has been calculated using methodology similar to what was adopted by the FC-XIV. A three-year average (2015-16 to 2017-18) per capita comparable GSDP has been taken for all the States. Income distance has been computed by taking the distance from the State having the highest per capita GSDP. In this case, Goa has the highest per capita GSDP followed by Sikkim. Since they are very small and atypical States, to avoid distortions, the State with the third highest per capita GSDP Haryana has been taken as the benchmark to avoid distortions. Distance of per capita GSDP of each State from Haryana's per capita GSDP has been calculated. Goa, Sikkim and Haryana have been assigned the income distance as calculated for the State with the fourth highest per capita GSDP Himachal Pradesh. Such distance has been scaled by the population (Census 2011) of each State and then the share of each State has been computed. It is noted that the most of the lower per capita income States are also the more populous States. Therefore, use of population scaling of income distance becomes progressive. Annex 3.4 gives details of the methodology and the calculation table for the Income Distance criteria.

#### Performance-based Criteria

#### Demographic Performance

- 3.28 All the previous Finance Commissions since the FC-VI (1974-79) have been mandated to use the population data of the 1971 Census while recommending their awards. After almost four decades, we are mandated to use the population data of the most recent Census for making our recommendations. As mentioned earlier, some States had raised serious concerns about this. However, use of the latest census data and sudden change of underlying data after four decades should not unfairly put at a disadvantage some States which have performed well on the national objective of demographic management. Hence, we have decided to recommend a new performance-based criterion to reward States who have performed well on the demography front.
- 3.29 This Commission recommends a criterion of demographic performance by using a measure of the total fertility rate (TFR) data of all States. This criterion has been computed by using the reciprocal of TFR of each State, scaled by the population data of Census 1971. States which have achieved lower TFR will be scored higher on demographic performance whereas

States with higher TFR will be scored lower. Better performance in reduction of TFR also serves as an indirect indicator for better outcomes in health (especially maternal and child health) as well as education. Hence, this criterion also rewards States with better outcomes in those important sectors of human capital. Since this is an important performance criterion to reward efforts made by States in controlling their population and achieving better human capital outcomes in education and health, we have decided to assign a total weight of **12.5 per cent.** Annex 3.1 gives full details of the methodology and the calculations for this criterion.

## Tax Effort

- 3.30 The FC-X, FC-XI and FC-XII have used tax efforts of States as a criterion in the devolution formula to reward State's own tax performance. Many States have suggested inclusion of tax performance criteria to incentivise States with higher efficiency of tax collection. This Commission is of the view that the inclusion of tax effort as a criterion will reward the States with higher tax collection efficiency and, at the same time, will also encourage all States to be more tax efficient.
- 3.31 The tax effort of States is computed by first calculating the average of per capita own tax revenue of a State over three years and its per capita GSDP over the same three years, and then taking the ratio thereof. This ratio has been scaled by the population of the State. Annex 3.5 gives the calculation table. A total weight of **2.5 per cent** has been assigned to this criterion.
- 3.32 The criteria and the weights attached to them for determining horizontal sharing of taxes along with weights assigned to each criterion is summarised in Table 3.3. The End Note to this chapter gives the methodology and mathematical expressions for computing inter se horizontal shares of all States.

Table 3.3: Criteria and Weights Assigned for Horizontal Devolution

| Criteria                | Weight (%) |
|-------------------------|------------|
| Population              | 15.0       |
| Area                    | 15.0       |
| Forest and Ecology      | 10.0       |
| Income Distance         | 45.0       |
| Demographic Performance | 12.5       |
| Tax Effort              | 2.5        |
|                         | 100.0      |

For the year 2020-21, inter se shares of States in the net proceeds of the taxes (divisible pool) as recommended by this Commission based on the methodology described above are given in Table 3.4.

| Table 3.4 Inter se Shares of States |                  |  |  |
|-------------------------------------|------------------|--|--|
| State                               | Share (per cent) |  |  |
| Andhra Pradesh                      | 4.111            |  |  |
| Arunachal Pradesh                   | 1.760            |  |  |
| Assam                               | 3.131            |  |  |
| Bihar                               | 10.061           |  |  |
| Chhattisgarh                        | 3.418            |  |  |
| Goa                                 | 0.386            |  |  |
| Gujarat                             | 3.398            |  |  |
| Haryana                             | 1.082            |  |  |
| Himachal Pradesh                    | 0.799            |  |  |
| Jharkhand                           | 3.313            |  |  |
| Karnataka                           | 3.646            |  |  |
| Kerala                              | 1.943            |  |  |
| Madhya Pradesh                      | 7.886            |  |  |
| Maharashtra                         | 6.135            |  |  |
| Manipur                             | 0.718            |  |  |
| Meghalaya                           | 0.765            |  |  |
| Mizoram                             | 0.506            |  |  |
| Nagaland                            | 0.573            |  |  |
| Odisha                              | 4.629            |  |  |
| Punjab                              | 1.788            |  |  |
| Rajasthan                           | 5.979            |  |  |
| Sikkim                              | 0.388            |  |  |
| Tamil Nadu                          | 4.189            |  |  |
| Telangana                           | 2.133            |  |  |
| Tripura                             | 0.709            |  |  |
| Uttar Pradesh                       | 17.931           |  |  |
| Uttarakhand                         | 1.104            |  |  |
| West Bengal                         | 7.519            |  |  |
| All States                          | 100              |  |  |

# **End Note**

The inter se share of i<sup>th</sup> state in the tax sharing formula, S<sub>i</sub>, is determined as the weighted sum of state shares by six parameters or criteria – population, area, forest and ecology, income distance, tax effort and demographic performance:

$$S_i = \sum_{m=1}^6 S_i^m \, \omega_m$$

where  $\omega_m$  = weight of m<sup>th</sup> parameter and  $S_i^m$  is the inter se share of the i<sup>th</sup> State as per the m<sup>th</sup> parameter.

Methods of calculating each criterion/parameter are as follows:

#### 1. Population

Inter se share of 
$$i^{th}$$
 state = 
$$\frac{POP_{i2011}}{\sum_{j=1}^{28} POP_{j2011}}$$

where POP<sub>jy</sub> is population of the j<sup>th</sup> State as per Census of year y.

## 2. Area

Area shares have been calculated in two-steps.

Step 1. Inter se share of 
$$i^{th}$$
 state =  $\frac{Area_i}{\sum_{j=1}^{28} Area_j}$ 

where  $Area_i$  = the actual geographic area of  $i^{th}$  state.

Step 2. For States with actual area share less than 2 per cent, floor share of 2 per cent is fixed. To arrive at the final shares, remaining State shares are adjusted for the total to add up to 100.

### 3. Forest and Ecology

 $\bullet$  Forest Cover  $(F_i)$  = Very Dense Forest + Moderately Dense Forest

$$FC_i = Inter se share of i^{th} state = \frac{F_i}{\sum_{j=1}^{28} F_j}$$

# 4. Income Distance

- Three-year (2015-16 to 2017-18) average of per capita GSDP of i<sup>th</sup> State (GSDPPC<sub>i</sub>)
- ullet d<sub>i</sub> is distance (difference) of i<sup>th</sup> state's GSDPPC<sub>i</sub> from third highest state's, namely Haryana's GSDPPC

• Top three GSDPPC States -- Goa, Sikkim and Haryana -- are assigned notional distance of the fourth highest state, namely Himachal Pradesh

$$D_i = d_i imes POP_{i2011}$$
 Inter se share of  $i^{th}$  state  $= \frac{D_i}{\sum_{i=1}^{28} D_i}$ 

# 5. <u>Demographic Performance</u>

• From Census 2011, total fertility rate of i<sup>th</sup> State(TFR<sub>i</sub>) calculated from Age-Specific Fertility Rates ( $ASFR_{ik}$ ) where  $ASFR_{i,k}$  is the k<sup>th</sup> age-specific fertility rate in the i<sup>th</sup> State.

$$ASFR_{i,k} = \frac{Number\ of\ live\ births\ last\ year\ in\ the\ k^{th}\ age\ group\ of\ females\ in\ the\ i^{th}\ state}{Mid-year\ female\ population^{\#}\ in\ the\ k^{th}\ age\ group\ in\ the\ i^{th}\ state}$$

# The female population as registered in the age group by Census 2011 is taken as the mid-year female population.

Total Fertility Rate of ith State is,

$$TFR_i = 5 \times \sum_{k=15-19}^{45-49} ASFR_{i,k}$$

Where k = 15-19, 20-24, 25-29, 30-34, 35-39, 40-44, 45-49.

•  $DP_i$  = demographic performance of the  $i^{th}$  State is given by

$$DP_i = \frac{1}{TFR_i} \times POP_{i,1971}$$

Inter se share of 
$$i^{th}$$
 state =  $\frac{DP_i}{\sum_{j=1}^{28} DP_j}$ 

#### 6. Tax effort

- Three-year (2014-15 to 2016-17) average is taken to attenuate the uncertainty and volatility in tax collection due to introduction of GST in 2017-18 and also in GSDP.
- $\bullet$  T<sub>i</sub> = three-year (2014-15 to 2016-17) average of per capita own tax revenue of the i<sup>th</sup> State.
- $\overline{GSDPPC_i}$  = three-year average (2014-15 to 2016-17) of GSDPPC<sub>i</sub>.
- Tax ratio  $t_i = \frac{T_i}{GSDPPC_i}$
- Tax effort of i<sup>th</sup> State  $TE_i = t_i \times POP_i$

Inter se share of 
$$i^{th}$$
 state =  $\frac{TE_i}{\sum_{j=1}^{28} TE_j}$ 

# **Chapter 4**

# Grants-in-aid

- 4.1 Para 4 (ii) of the terms of reference (ToR) of this Commission requires us to make recommendations on "the principles which should govern the grants-in-aid of the revenues of the States out of the Consolidated Fund of India and the sums to be paid to the States by way of grants-in-aid of their revenues under Article 275 of the Constitution for purposes other than those specified in the provisos to clause (1) of that article". Para 5 mentions, among other things, that "the Commission may also examine whether revenue deficit grants be provided at all".
- 4.2 The Commission has held discussions with the Ministry of Finance and other ministries of the Union Government as well as State Governments. We have come to the conclusion that the past framework and legacy of earlier Finance Commissions has served the country well. We, therefore, propose to continue this practice which will ensure that the growth of the States is not unduly compressed and their growth trajectory broadly remains aligned, as in the past, with the growth path of the Union Government. We believe that it would be appropriate, judicious, rational and consistent to continue with the approach pursued by successive Finance Commissions.
- 4.3 These grants have comprised, inter alia, the following:
  - i. revenue deficit grants
  - ii. grants to local bodies
  - iii. disaster management grants
  - iv. sector-specific grants
  - v. performance grants
  - vi. State-specific grants
- 4.4 Finance Commissions in the past have not had a uniform and consistent approach to grants except on revenue deficit grants, grants to local bodies and disaster management. The recommendations and approach in respect of sector- and State-specific grants has varied.
- 4.5 This Commission intends to adopt the following approach:
  - i. Make recommendations on revenue deficit grants, grants to local bodies and disaster management grants.
  - ii. Indicate the framework on sector-specific and performance based grants and enable preparatory work to be initiated for utilisation from the second year of the award.
  - iii. Consider the State-specific grants in our final report, depending upon available fiscal space.

#### **Revenue Deficit Grants**

- 4.6 On the basis of the assessment of revenues and expenditure done in Chapter 2, the predevolution revenue deficit has been worked out for all the States for 2020-21. We have used a normative approach to assess the revenue expenditure and revenue receipts of States for this year. Based upon the projected tax revenue of the Union Government and the shares derived from the horizontal devolution formula, the share of each State is derived in absolute numbers. This has been used to derive the post-devolution revenue deficit/surplus for States.
- 4.7 As per the detailed State-wise estimates given in Annex 2.4 of this Report, twenty-five out of twenty-eight States face a total pre-tax devolution revenue deficit of Rs. 6.43 lakh crore in 2020-21. After accounting for the projected tax devolution to the States of Rs.8.55 lakh crore, fourteen States garner post-tax devolution revenue surplus of Rs.3.08 lakh crore, while the remaining fourteen face a combined post tax devolution revenue deficit of Rs. 74,340 crore. Accordingly, these fourteen States are recommended revenue deficit grants as detailed in Table 4.1.

Table 4.1: State-wise Revenue Deficit Grant for 2020-21

(Rs. crore)

|                   |   |                   |  |  | (Rs. crore)                             |
|-------------------|---|-------------------|--|--|---|
| State             | Pre- devolution revenue deficit (+) /surplus(-) | Tax<br>devolution | Post<br>devolution<br>revenue<br>surplus | Post<br>devolution<br>revenue<br>deficit | Recommended<br>revenue deficit<br>grant |
| Andhra Pradesh    | 41054   | 35156             | -  | 5897                                     | 5897                                    |
| Arunachal Pradesh | 9183  | 15051             | 5868                                     | -  | -                                       |
| Assam             | 34355   | 26776             | -  | 7579                                     | 7579                                    |
| Bihar             | 67611   | 86039             | 18429                                    | -  | -                                       |
| Chhattisgarh      | 10068   | 29230             | 19162                                    | -  | -                                       |
| Goa               | 1668  | 3301              | 1633                                     | -  | -                                       |
| Gujarat           | -11186  | 29059             | 40245                                    | -  | -                                       |
| Haryana           | 3300  | 9253              | 5953                                     | -  | -                                       |
| Himachal Pradesh  | 18264   | 6833              | -  | 11431                                    | 11431                                   |
| Jharkhand         | 13491   | 28332             | 14841                                    | -  | -                                       |
| Karnataka         | 8764  | 31180             | 22415                                    | -  | -                                       |
| Kerala            | 31939   | 16616             | -  | 15323                                    | 15323                                   |
| Madhya Pradesh    | 38062   | 67439             | 29377                                    | -  | -                                       |
| Maharashtra       | -2746   | 52465             | 55211                                    | -  | -                                       |
| Manipur           | 8964  | 6140              | -  | 2824                                     | 2824                                    |
| Meghalaya         | 7033  | 6542              | -  | 491                                      | 491                                     |
| Mizoram           | 5750  | 4327              | -  | 1422                                     | 1422                                    |
| Nagaland          | 8817  | 4900              | -  | 3917                                     | 3917                                    |
| Odisha            | 19726   | 39586             | 19860                                    | -  | -                                       |
| Punjab            | 22950   | 15291             | -  | 7659                                     | 7659                                    |
| Rajasthan         | 39681   | 51131             | 11450                                    | -  | -                                       |
| Sikkim            | 3766  | 3318              | -  | 448                                      | 448                                     |
| Tamil Nadu        | 39848   | 35823             | -  | 4025                                     | 4025                                    |
| Telangana         | -7735   | 18241             | 25975                                    | -  | -                                       |
| Tripura           | 9299  | 6063              | -  | 3236                                     | 3236                                    |
| Uttar Pradesh     | 115332  | 153342            | 38010                                    | -  | -                                       |
| Uttarakhand       | 14517   | 9441              | -  | 5076                                     | 5076                                    |
| West Bengal       | 69314   | 64301             | -  | 5013                                     | 5013                                    |
| All States        | 642753  | 855176            | 308429                                   | 74340                                    | 74340                                   |
| General States    | 522806  | 765784            | 302561                                   | 37917                                    | 37917                                   |
| NE&H States       | 119947  | 89392             | 5868                                     | 36423                                    | 36423                                   |

Note: Respective figures of each State have been rounded off to the nearest whole number

4.8 We have also noted with concern the wide disparity in per capita revenue expenditure of the States. Committed expenditure in certain States has risen to extraordinary levels that cannot be sustained through their own resources. Previous Finance Commissions had also expressed serious concern regarding this. Though we have provided for such expenditures at current levels in 2020-21, we recognise the moral hazard of allowing it in some States when others have effectively reduced such liabilities. We, therefore, expect that the States with very high relative per capita expenditure on salaries, pension and interest payments will demonstrate, in 2020-21, steps to review and rationalise such expenditure and reduce their proportion to total revenue expenditure. Simultaneously, improvement in the ratio of own revenues to gross state domestic product (GSDP) is expected to enable such States to support the higher liabilities.

# **Special Grants**

4.9 We believe that during 2020-21 no State should, as a result of our recommendation get, in absolute terms, less than the total amount of devolution and revenue deficit grants estimated to be received in 2019-20. It is believed that this is a sound principle and should be adhered to. We have noted that the sum of tax devolution and revenue deficit grant is projected to decline from 2019-20 to 2020-21 for three States, namely, Karnataka, Mizoram and Telangana. Hence, we have provided grants to these States aggregating to Rs. 6,764 crores in 2020-21. This grant will be adequate to make up the shortfall between untied transfers received by these States in the form of tax devolution plus revenue deficit grant in 2020-21 vis-a-vis the corresponding amount in 2019-20. The details are given in Table 4.2.

**Table 4.2: Recommendation for Special Grants** 

(Rs. Crore)

| States    | Devolution plus revenue deficit grant |                | Recommendation              |  |
|-----------|---------------------------------------|----------------|-----------------------------|--|
|           | 2019-20 Reassessed<br>(A)             | 2020-21<br>(B) | for special grants<br>(A-B) |  |
| Karnataka | 36675                                 | 31180          | 5495                        |  |
| Mizoram   | 6296                                  | 5750           | 546                         |  |
| Telangana | 18964                                 | 18241          | 723                         |  |
| Total     | 61935                                 | 55171          | 6764                        |  |

#### **Sectoral Grants and Performance Based Incentives**

- 4.10 Para 7 of the ToR mandates us to consider proposing measurable performance-based incentives for States in nine different areas. The memoranda submitted by the Union Government and some State Governments have also suggested such incentives and other grants.
- 4.11 We have identified several areas for sectoral initiatives and measurable performance criteria for making suitable recommendations in our final report. However, we propose to give our recommendations with regard to only 2020-21. We also believe that it would be prudent, reasonable and appropriate to allow the ministries and State Governments adequate time to take action in 2020-21 that will enable them to efficiently utilise the grants in the subsequent years of our award period.
- 4.12 Accordingly, we have discussed here the broad contours of important areas for sectoral grants and performance-based incentives during our award period. After making the final assessment of the divisible pool for the full award period, we will earmark specific sums in each of the areas identified.

#### **Sectoral Grants**

4.13 Both Union ministries and State Governments have proposed certain sector-specific grants. Some have recommended grants for State-specific schemes and projects. Commissions have, in the past, provided various forms of sector-specific grants in areas like education, health, environment, justice, roads, heritage conservation etc. Grants for upgradation of standards of administrative and social services too found a place in the total transfers of quite a few Finance Commissions. Besides, we believe that States with low fiscal capacity need to increase their expenditure on critical social and economic sectors in order to promote better, balanced and inclusive growth in the country. We are considering recommending, in the final report, sector-specific grants for nutrition, health, pre-primary education, judiciary, rural connectivity, railways, statistics and police training and housing. However, to augment the efforts of the States towards reducing and ultimately eliminating malnutrition, we specifically recommend grants for nutrition even in 2020-21.

#### Grants for Nutrition

4.14 Despite the Integrated Child Development Scheme (ICDS) being implemented for several decades, there has been no commensurate improvement in child nutrition levels. According to Global Hunger Index, India's rank has fallen from 93 in 2015 to 102 in 2019 out of 117 qualifying countries. Though the allocation of resources for this purpose has substantially increased in the recent past, the persisting levels of malnutrition among vulnerable children, pregnant women and lactating mothers in relatively less developed States continue to be a matter of concern. Apart from better management of funds and more efficient delivery of services,

reduction of malnutrition among children requires higher allocation of resources. The impact of malnutrition on the development of the brain, and hence on early education, has prompted us to recommend additional grants of Rs 7,735 crores to the States for nutrition in 2020-21, in addition to the grants allocated by the Union Government under centrally sponsored schemes (CSS). A brief outline of the grants recommended is enclosed at Annex 4.1. These grants are not to be substituted for either the State share or Union share and are an additionality. These grants should be released in two installments. The first should be by May 2020 along with the Union share of the CSS related to nutrition. The second installment should be released after effective utilisation of the first installment of all grants on nutrition (including State share) received by a State.

#### Health

- 4.15 The health sector has been underfunded for decades. At the consolidated level of State and Union Governments, we spent only 0.95 per cent of GDP in 2017-18 against the 2.5 per cent that the National Policy on Health aspired for. Our low expenditure in this critical sector is much below international norms. Improving public health infrastructure and increasing the number, availability and capacity of healthcare professionals is a major challenge in realising our health goals.
- 4.16 Towards this objective, apart from extensive discussions with the Ministry of Health and Family Welfare and State Governments, we constituted a High Level Group on Health Sector under the chairmanship of Dr. R Guleria, Director, AIIMS, alongwith eminent experts in the sector, namely Dr V.K. Paul, Member NITI Aayog and the acting Chairman, Indian Medical Council, Dr. Devi Shetty, Chairman, Narayana Health City, Bengaluru, Dr. Govind Mhaisekar, Vice Chancellor, Maharashtra University of Health Science, Pune, Dr. Naresh Trehan, Medanta City, Gurugram, Dr. Bhabatosh Biswas, professor and head of department of Cardio Thoracic Surgery, R.G. Kar Medical College, Kolkata and Prof. K. Srinath Reddy, President of the Public Health Foundation of India.
- 4.17 Based on the recommendations of the High Level Group and interactions with other stakeholders, five important initiatives that need to be taken are:
  - i. Establishment of medical colleges in about 247 district hospitals with over 100 beds in districts where there is no medical college.
  - ii. All the public health facilities of private sector and corporate hospitals should be utilised for starting specialist Diplomate of National Board (DNB) courses, awarded by the National Board of Examination, Ministry of Health and Family Welfare (MoHFW). The hospitals providing DNB courses may be given outcome based tax incentives under Section 80 JJA of Income Tax. These hospitals shall undergo National Assessment and Accreditation Council (NAAC) like rating system.

- iii. In public health facilities, it is important that the spare infrastructure and facilities be fully utilised. Towards this objective, a panel of specialists from the private sector may be drawn up for all district hospitals and be permitted to treat patients and undertake procedures, without crowding out the patients seeking direct treatment at such hospitals. The prescribed charges of the Central Government Health Scheme (CGHS) shall be made applicable, somewhat similar to an earlier practice.
- iv. We need to have a system of auditing for all medical equipment and diagnostic facilities in public hospitals in order to ensure optimum use. The Heads of Department in hospitals should also be made accountable for effective utilisation of unused equipment and facilities.
- v. Developing district hospitals as training sites for about 1.5 million allied health professionals, which can significantly enhance productivity at health centres, harness talent and enhance employment.
- 4.18 We believe that the above initiatives will have a positive multiplier effect on health services, and also effectively follow up the goals of the Ayushman Bharat programme and improve services in the Wellness Centres. However, these need adequate preparatory time, particularly the supply side responses to plan and augment the availability of faculty to teach and train at the proposed new medical colleges. Equally, the initiative for the allied health professionals would greatly depend on the enactment of the Allied and Healthcare Professions Bill, 2018 under consideration in Parliament.
- 4.19 We recommend that the Union Health Ministry and State Governments undertake preparatory work related to the establishment of medical colleges in district hospitals with over 100 beds. Work on developing district hospitals as training sites for allied health professionals should also be initiated so that suitable State-wise grants proposed to be included in our final report can be optimally utilised. Information on the adequacy of preparatory work and programme of implementation would enable the Commission to consider appropriate grants in its final report.

#### Grants for Police Training and Housing

4.20 The Ministry of Home Affairs submitted a detailed memorandum seeking support to States in the areas of police training, modernisation and police housing. We recognise that ensuring the safety of the citizens and protecting property is a basic public good that is necessary for the development of the country. We also note that additional funds for general administration and policing is required, as these sectors generally receive a low priority in budget allocations. Hence, we may consider providing grants for police training and housing in our final report. We recommend that in 2020-21, State Governments should identify the land and premises for creation of such additional facilities and undertake preparatory work for police training programmes.

#### Railways

- 4.21 Railways are the engine of economic growth and development of the country. Expansion and development of railways, particularly for efficient and cost-effective freight movement, has seriously lagged behind the economic progress of the country. The Government of India is planning to create infrastructure that would be capable of carrying twice the freight traffic over the next six to eight years and meet the passenger demands without undue crowding of passenger trains.
- 4.22 During our meeting with the Ministry of Railways, we were informed that certain ongoing projects related to new lines, gauge conversion etc. are being taken up jointly with the States on a cost sharing basis. Some States are faced with paucity of resources for paying their share towards the implementation of such projects. We may consider this issue and make appropriate recommendations in our final report with respect to the expeditious and time-bound completion of such ongoing stranded projects, provided the States make demonstrable efforts in earmarking funds from their own untied resources towards such projects and remove bottlenecks of land acquisition, forest and environmental clearances and other state-level regulatory permissions.

#### Maintenance Grants for PMGSY roads

- 4.23 Rural roads are recognised as catalysts to rural development and a significant element of poverty alleviation initiatives. Under the Pradhan Mantri Gram Sadak Yojana (PMGSY), till date, 5,50,528 km road length has been constructed and 89 per cent of all eligible habitations have been connected. This huge asset demands a recurring and predictable stream of funds for maintenance. During our discussion with various stakeholders, including the Ministry of Rural Development, it has been brought to our notice that the maintenance of PMGSY roads, unfortunately, receives low priority in the total resources earmarked for development works.
- 4.24 Hence, in our view, it is extremely important to provide for maintenance of the PMGSY roads, following the completion of the five-year maintenance contract. This matter will be suitably addressed in our final report based upon overall resource availability and demonstrable efforts made by States in earmarking funds from their own untied resources towards maintenance of such assets.

#### Pre-primary education

4.25 There is compelling evidence that children who fall behind in basic literacy and numeracy skills in early grades tend to maintain an almost flat learning curve later because they are not able to catch up with the material being taught in class. Over 85 per cent of cumulative brain development occurs prior to the age of six. It is only around the age of eight that children adapt to more prescriptive learning. This highlights the need to provide pre-primary education which is

flexible, multi-faceted, multi-level, play-based, activity-based and discovery-based. The concept is to be addressed in the National Education Policy, 2019. We may consider making appropriate recommendations based upon the implementation and outcome of the National Education Policy, the design of the proposed interventions and the measurable outcomes sought to be achieved.

#### Grants for Judiciary

- 4.26 We feel that an efficient justice delivery system is a central component in implementing the Sustainable Development Goal (SDG) Goal no. 16, that is peace, justice and strong institutions. During our consultations with the Department of Justice in the Ministry of Law and Justice, we were informed that State Governments did not provide sufficiently for strengthening of the judicial system even after the enhanced tax devolution following the FC-XIV recommendations. A large majority of prison inmates are 'under trial', awaiting speedy conclusion of the judicial process.
- 4.27 This Commission will consider recommending appropriate grants for strengthening of the judicial system during our award period. Mechanisms such as fast track courts, lawyers' halls, information centres, justice clocks, vulnerable witness deposition centres (especially in the backdrop of the renewed focus on crime against women), district-level and state-level Alternate Dispute Resolution (ADR) centres, village legal aid clinics, upgradation of District Legal Services Authorities (DLSA) front offices in districts and sub-divisions, legal literacy clubs in schools and pre-institution mediation centres have been mentioned as possible solutions to problems in the judicial system. While we make suitable recommendations, State Governments who are equal beneficiaries, will be expected to provide enhanced additional remaining resources.
- 4.28 During the year 2020-21, the Department of Justice and the State Governments should take preparatory action for starting more fast track courts to bring down the huge backlog of pending cases.

#### Grants for Statistics

4.29 Reliable and credible statistics are central to policy formulation as well as its implementation and subsequent monitoring. The Ministry of Statistics and Programme Implementation (MoSPI) submitted a detailed proposal to us to enhance the system of data collection and dissemination related to various statistics, which is under our consideration. Based upon the proposal, the Commission plans to provide for grants for statistics which will have a conditional component, to be released based upon achievement of certain milestones. These milestones are given below.

| Milestone 1 | <ul> <li>Compilation and annual release of district domestic product (DDP)</li> <li>Compilation and monthly release of State index of industrial production (IIP) and consumer price index (CPI)</li> <li>State monitoring framework for SDGs and dynamic updation with National SDG Dashboard</li> <li>Publication of a monthly, quarterly and annual advance release calendar.</li> </ul> |
|-------------|---|
| Milestone 2 | <ul> <li>Participation in National Sample Surveys and release of estimates at<br/>the sub-state/district levels within one year of completion of the<br/>survey</li> <li>Using technology for data capture through Computer Assisted<br/>Personal Interviewing (CAPI) mode, validation and processing</li> </ul>  |
| Milestone 3 | <ul> <li>Implementing dynamic updation of the proposed National Business Register</li> <li>Innovations for improvements in administrative statistics like establishment and household registries; land records, etc.</li> <li>Dynamic updation with the national integrated information portal being developed by MoSPI</li> </ul>  |

4.30 During the year 2020-21, the MoSPI and the State Governments shall work closely to develop guidelines, identify and train manpower and establish reporting systems in order to achieve the milestones for 2021-22 onwards.

## **Performance Based Incentives**

4.31 Based upon ToR 7, which enjoin us to propose performance-based incentives in nine areas (Annex 1.1), we have chosen six different areas for these incentives. As mentioned earlier, States should take preparatory action by establishing a credible implementation and monitoring system in 2020-21, after developing robust, monitorable outcome indicators for releasing the grants to eligible States in subsequent years. They are also required to define the State-wise baseline indices/score/data using the indices to monitor annual incremental changes and issue guidelines before May/June 2020. These broad contours are given below.

# Implementation of Agriculture Reforms

4.32 Notwithstanding significant reforms and liberalisation in recent years, the income of agricultural workers and farmers remained low and did not keep pace with the growth in the income of non-farm workers. Keeping in view the goal of doubling farmers' income and reducing agrarian distress, we have identified a set of reforms which are central to liberalising

agricultural markets, provide for seamless trading, promote competition and catalyse organised investment from the private sector for better growth in agriculture sector.

- 4.33 The States will be eligible for financial incentives if they enact and implement all features of: (a) Model Agricultural Produce and Livestock Marketing (Promotion & Facilitation) Act issued by the Ministry of Agriculture, Cooperation and Farmers Welfare in 2017, (b) Model Agricultural Produce and Livestock Contract Farming and Services (Promotion & Facilitation) Act, issued by Ministry of Agriculture and Farmers Welfare in 2018, and (c) "Model Agricultural Land Leasing Act, 2016" prepared by the NITI Aayog.
- 4.34 We recommend that State Governments take preparatory action by securing the passage of these Bills in their respective legislatures in 2020-21 to become eligible to avail the grants awarded by us from 2021-22 onwards.

#### Development of Aspirational Districts and Aspirational Blocks

- 4.35 The Aspirational Districts Programme (ADP), piloted by NITI Aayog, is based on three principles of competition, convergence and collaboration. There has been improvement in the social and economic indicators of the targeted areas, but rigorous performance evaluation is required to establish the effectiveness of the ADP in bringing about or accelerating such improvement even without providing any additional funding. On the basis of the performance evaluation of the ADP, we would consider earmarking funds to incentivise the top performing districts to sustain these results and broaden their impact over our award period.
- 4.36 Further, there have been suggestions that the objectives would be better served if we can also target the blocks with poor developmental indicators on the same lines. This new programme may be called the Aspirational Blocks Programme. This would also necessitate earmarking funds as incentives for States in our award period. Based on the current experience and rigorous performance evaluation of ADP, NITI Aayog shall, in consultation with the Ministry of Finance and the State Governments, prepare the detailed proposals and guidelines, in 2020-21, for both the districts and blocks along with the key performance indicators to be achieved and rewarded.

# Power Sector Reforms

- 4.37 Most States have reduced, to some extent, their aggregate technical and commercial (AT&C) losses and the difference between average cost of supply and average rate of return (ACS-ARR) after implementation of the Ujwal Discoms Assurance Yojana (UDAY) in 2016-17. However, this progress does not seem to be sustainable unless the systemic issues in the power sector are suitably addressed. In view of the above, robust and systemic reforms are required to improve the health of the power sector.
- 4.38 Accordingly, we may consider recommending annual financial incentives for top

performing States which achieve the targets based on certain broad parameters such as: (i) achieving the reduction targets of AT&C losses, (ii) achieving the reduction targets of (ACS-ARR), (iii) open access to trade and industry to meet their power needs from sources other than the State utilities and (iv) to implement direct cash transfers for all consumers eligible for subsidy in a State. Further, in order to avail these incentives, the States should ensure that future supply of electricity from the generating companies should be against a firm irrevocable letter of credit in that particular year.

4.39 The Ministry of Power, in consultation with the States, should develop a monitorable performance index within 2020-21, with State-wise targets and clear roadmap.

# Enhancing Trade including Exports

- 4.40 Our ToR enjoin us to recommend measurable performance-based incentives for promoting labour-intensive growth. Exports have played a major role in the rapid growth of income and employment in East Asian countries. Lack of data on State-wise exports, however, has proved to be a challenge and also precludes an evaluation of States on performance on exports in order to design incentives. In any case, vigour in intra- and inter-State trade is a precursor to vibrant international trade.
- 4.41 Robust logistics, user-friendly institutions and regulatory framework and adequate finance are essential ingredients of a conducive eco-system for promoting trade, including exports. States have a critical role to play in this. The World Bank has a Logistic Performance Index and an index for measuring Trading Across Borders. The Ministry of Commerce and Industry is preparing an Index of Logistics Ease Across Different States as well as a Trade Preparedness Index together with the NITI Aayog.
- 4.42 We propose to consult various stakeholders, particularly the States, and examine the feasibility and potential effectiveness of a performance based incentive related to exports, including its design. We would also like to support export-related employment generating initiatives given its significance in enhancing the growth potential of States in terms of GSDP.

## Incentives for Education

- 4.43 Though education is the key area for harnessing the demographic dividend, the learning outcomes of school children remain abysmal, even after achieving about 100 per cent gross enrolment at primary levels. Another area that concerns us the most is the low ratio of girls transitioning from upper-primary to secondary level of education. Education of girls is a critical determinant of age of marriage, age of first pregnancy, total fertility and child health and nutrition.
- 4.44 Considering this, we may consider introducing financial incentives for best performing

States in terms of incremental change in a few focussed indicators listed in Annex 4.2 which form a subset of the Performance Grading Index of the MoHRD. During 2020-21, the Ministry and the State Governments should prepare State-wise targets based on these indicators and take action so that they can avail incentives from 2021-22 onwards.

#### Promotion of Domestic and International Tourism

- 4.45 The tourism sector is important for generation of employment and foreign exchange. The States need to be encouraged to attract tourists and the top performing States in this respect should be rewarded with attractive financial incentives. We may consider allocations for our award period for rewarding the States with highest percentage increase in aggregate number of nights spent by international tourists in that State as one of the criteria.
- 4.46 During 2020-21, the Ministry of Tourism, in consultation with NITI Aayog and the States, should develop a State-wise roadmap and action plan against the targets fixed in this regard for implementation from 2021-22 in order to become eligible to avail the grants during our award period.

# **Chapter 5**

# **Empowering Local Bodies**

- 5.1 All the previous Finance Commissions from the Tenth Finance Commission (FC-X) recommended grants to local bodies with certain variations from time to time. The FC-XIV, in the case of rural local bodies, had, unlike previous Commissions, recommended grants to only gram panchayats and not to the other tiers at the district and block levels. In the case of urban local bodies, no distinction was made among different sizes of municipalities. These grants were distributed between the rural and urban local bodies in the ratio of 70:30. Further, the FC-XIV did not recommend grants to Excluded Areas under the Fifth and Sixth Schedule of the Constitution and to Cantonment Boards in urban areas. The grants recommended by it were in two parts a basic grant (unconditional) and a performance grant (conditional) in the proportion of 90:10 for duly constituted gram panchayats and of 80:20 for municipalities.
- 5.2 While considering the grants for local bodies for the year 2020-21, we have made significant departures from the FC-XIV in some of these aspects.
  - i. First, after considering the views of all stakeholders, we have decided to recommend grants to all tiers of the panchayati raj so as to enable pooling of resources across villages and blocks to create durable community assets and improve their functional viability.
  - ii. Second, we have decided to give grants to the Fifth and Sixth Schedule areas and Cantonment Boards.
  - iii. Third, we have provided for tied grants in the critical sectors of sanitation and drinking water in order to ensure additional funds to the local bodies over and above the funds allocated (both Union and State share) for these purposes under the centrally sponsored schemes (CSS), Swachh Bharat and Jal Jeevan Missions.
  - iv. Fourth, given the projection of 38 per cent urbanisation in India by 2025 and further acceleration of this trend with economic growth, the changing sectoral composition of gross domestic product (GDP) and rural-urban migration, we believe the share of urban local bodies in Finance Commission grants to local bodies should be gradually increased to 40 per cent over the medium term.
  - v. Lastly, we are convinced that larger cities will have a tendency to grow faster with the agglomeration effect. Hence, the fifty Million-Plus cities in the country need differentiated treatment, with special emphasis on meeting the challenges of bad ambient air quality, ground water depletion and sanitation. <sup>1</sup>

<sup>&</sup>lt;sup>1</sup>There are fifty such Million-Plus cities in the country, excluding the Union Territory of Delhi, and Union Territory of Jammu and Kashmir (Srinagar). Such cities provide habitation to 38 per cent of the urban population.

- 5.3 Accordingly, we recommend the following for the year 2020-21:
  - i. The total size of the grant for local bodies in twenty-eight States shall be Rs. 90,000 crore. This is equivalent to 4.31 per cent of the divisible pool estimated by the Commission for the first year of the award period. This compares with Rs. 87,352 crore (3.54 per cent of the divisible pool for the year 2019-20) recommended by the FC-XIV for 2019-20.
  - ii. The inter se distribution of grants for local bodies among the States may be **based on population and area in the ratio of 90:10** (Annex 5.1). Because of the slower socioeconomic progress of the scheduled castes and scheduled tribes relative to the rest of the population, we also recommend that State Governments, while allocating FC-XV funds among local bodies, should place special emphasis on areas with higher concentration of scheduled castes and scheduled tribes populations.
  - iii. To begin with, for 2020-21, the proportion of grants between rural and urban local bodies recommended by us is in the ratio of 67.5:32.5.
  - iv. With this new sharing ratio, the recommended allocation for rural local bodies in 2020-21 is Rs. 60,750 crore, which is more or less unchanged from the Rs. 60,687 crore in 2019-20 recommended by FC-XIV. (Annex 5.1)
  - v. All the tiers in the panchayats village, block and district shall receive the grants. The inter se distribution among the panchayati raj tiers by the States should be done on the basis of the accepted recommendations of the latest State Finance Commissions (SFC) and in conformity with the following bands of 70 per cent-85 per cent for village panchayats, 10 per cent-25 per cent for block panchayats and 5 per cent-15 per cent for district panchayats. In Goa, Sikkim, and Manipur, which have a two-tier system with only village and district panchayats, the allocation will be in the bands of 70 per cent-85 per cent and 15 per cent-30 per cent respectively. Furthermore, in the event of SFC recommendations not being available, the inter se distribution within the panchayati raj tiers should be decided by the State Government within the bands indicated above.
  - vi. Once the State-level grants are earmarked for each tier, the intra-tier distribution among the relevant entities across the State should be on the basis of population and area in the ratio of 90:10 or as per the accepted recommendations of the latest SFC.
  - vii. The States should also make allotment of grants for both Fifth and Sixth Schedule areas falling within the State, based on population and area in the ratio of 90:10. The concerned State Government should allot these grants for the year 2020-21 in the month of April 2020 and intimate the same to the ministries of Home Affairs and Finance.
  - viii. The grants for rural local bodies and for Fifth and Sixth Schedule areas shall be distributed as basic and tied grants in the ratio of 50:50. The basic grants are untied and can be used by the local bodies for location-specific felt needs, except for salary or other establishment expenditure. The tied grants, on the other hand, can be used for the basic

services of (a) sanitation and maintenance of open-defecation free (ODF) status and (b) supply of drinking water, rain water harvesting and water recycling. The local bodies shall, as far as possible earmark one half of these tied grants each to these two critical services. However, if any local body has fully saturated the needs of one category, it can utilise the funds for the other category.

- ix. The total grants recommended for urban local bodies for 2020-21 are Rs 29,250 crore against Rs 26,665 crore recommended for the year 2019-20 by the FC-XIV. (Annex 5.2)
- x. For differential treatment of cities, we have divided the urban local bodies into two categories: (a) fifty Million-Plus urban agglomerations/cities, excluding Delhi and Srinagar, and (b) all other cities and towns with less than one million population. Within a State, the grants recommended across these two categories is on the basis of population. Thus, for urban local bodies, in 2020-21, we recommend Rs. 9,229 crore for the Million-Plus cities and Rs. 20,021 crore for the others. (Annex 5.2)
- xi. For the Million-Plus cities/urban agglomerations, the recommended city-wise distribution of grants for 2020-21 is on population basis. In the case of urban agglomerations which contain more than one Million-Plus city, the concerned State Government, in consultation with all such entities within the urban agglomeration, shall entrust one urban local body as a nodal entity to receive the grants. This nodal entity will also have the responsibility of achieving the performance indicators for the entire urban agglomeration. (Annex 5.3)
- xii. The States should also make allotment of grants on population basis for the Cantonment Boards within their territories. The list of fifty-nine Cantonment Boards in seventeen States along with the population is at Annex 5.4. For urban local bodies other than Million-Plus cities, the grants should be distributed to each urban local body on the basis of accepted recommendations of the latest SFC suitably modified to accommodate the Cantonment Boards. In case of non-availability of SFC recommendation for distribution within a particular category, the allocations should be on the basis of population and area in the ratio of 90:10.
- xiii. For the Million-Plus cities, the Ministry of Environment, Forest and Climate Change (MoEF&CC) as the nodal ministry shall, in consultation with the State Governments, develop city-wise and year-wise targets on ambient air quality based on annual average concentrations of PM10 and PM2.5, monitor and evaluate the improvement and recommend disbursal of grants to such cities. The MoEF&CC shall publish the benchmarks in the beginning of April 2020. We recommend Rs. 4,400 crore in 2020-21 for the purpose of improving ambient air quality (Annex 5.3). This grant shall be released in two equal instalments. The first instalment may be used for air quality improvement measures, including capacity building of the local bodies within the

Million-Plus city/agglomeration, as well as meeting the additional needs of State Pollution Control Boards to appropriately assist the local bodies in monitoring the ambient air quality. MoEF&CC needs to expedite the establishment of an ambient air quality monitoring network, take up source apportionment studies and update the airquality data for the fifty Million-Plus urban local bodies on the Ministry's website on a timely basis. To incentivise improvement in air quality in Million-Plus cities, the second instalment shall be disbursed against the stipulated performance-based outcomes in terms of year-on-year improvement in air quality in January 2021 (Annex 5.5).

xiv. In case of non-achievement of improvement targets by cities, the balance distributable fund would be divided equally in two parts. Fifty per cent will be distributed to cities in a manner so that top performers (>5 per cent improvement) get 40 per cent of the amount, second best performers (4-5 per cent improvement) get 35 per cent and third best performers (3-4 per cent improvement) get 25 per cent. The MoEF&CC, in consultation with State Governments, shall distribute the remaining 50 per cent of the funds amongst the non Million-Plus cities in proportion to their population. The eight Million-Plus agglomerations of Kannur, Kochi, Kollam, Kozhikode, Malappuram, Thiruvananthapuram and Thrissur in Kerala and Coimbatore in Tamil Nadu, where air quality is not a problem partly because of locational reasons, the full amount of FC-XV grants may be used for improving conservation, supply and management of water and efficient solid waste management.

xv. We are also deeply concerned with the issue of 'ease of breathing' in the National Capital Region (NCR), especially the extremely hazardous levels of pollution in October-November of each year. One of the main reasons for this is the burning of crop residue in the surrounding States of Haryana, Punjab and Uttar Pradesh. We are unable to make an allocation to address this as Delhi is not a State. Besides, the pollution hazard in the NCR is very unique as the air-shed contributing to pollution extends to three neighbouring States. We, therefore, recommend that the Union Government constitute a high power committee, consisting of the ministries of Finance, Environment, Forest and Climate Change and Agriculture and Farmer Welfare, the Governments of Haryana, Punjab and Uttar Pradesh, to devise, implement and monitor a time-bound action plan for pollution mitigation under the National Clean Air Programme.

xvi. For the Million-Plus cities, Rs. 4,829 crore have been earmarked for improving conservation, supply and management of water and efficient solid waste management (Annex 5.3), which are critical for planned urbanisation. For water and solid waste management, the Ministry of Housing and Urban Affairs (MoHUA), as the nodal ministry, shall, in consultation with the State Governments, develop city-wise and yearwise targets for 2020-25 and recommend disbursal of grants to such cities. The targets will be improvements over the base year to provide incentives to make up for any slippage in performance during the years succeeding 2020-21. For 2020-21, while no

conditions may be applied for release of the Rs. 4,829 crore recommended by us, the amount shall be spent exclusively for improving water and solid waste management and achieving of star ratings by the urban local bodies. In 2020-21, the States need to draw up a detailed project report for capacity development and address the infrastructural issues for meeting the service level benchmarks. (list detailed at Annex 5.6)

xvii. For urban local bodies other than in Million-Plus cities, we recommend an allocation of Rs. 20,021 crore consisting of two equal parts - 50 per cent basic grants and 50 per cent grants tied to (a) drinking water (including rainwater harvesting and recycling) and (b) solid waste management (Annex 5.6). These urban local bodies shall earmark one half of the tied grants each to these two critical services and this amount will be in addition to the funds received from relevant CSS like Swachh Bharat Mission and Atal Mission for Rejuvenation and Urban Transformation (AMRUT) and other similar schemes being implemented by the States. These grants shall not be used as a substitute for either Union or State share of such schemes. However, if any local body has fully saturated the needs of one category, it can utilise the funds for the other category.

xviii. The summary of above recommendations is as follows:

| Total Grant  | Nature of Grant   | Mode of Disbursement  |
|--|---|---|
|  | Rural Local Bodies  |   |
| Rs 60,750 crore  | maintenance of ODF status   | The inter se distribution amongst the panchayati tiers — village, block and district — by the States should be on the basis of the accepted recommendations of the latest SFCs and in conformity with the following bands of 70 per cent-85 per cent, 10 per cent-25 per cent, and 5 per cent-15 per cent for village, block and district panchayats, respectively. In Goa, Sikkim and Manipur, where a two-tier system with only village and district panchayats is in place, the allocation will be in the band of 70 per cent-to 85 per cent and 15 per cent-30 per cent. If the SFC recommendation is not available, the inter-se distribution within tiers should be decided by the State Government within the bands indicated above.  Grants to Fifth and Sixth Schedule Areas within the State should be on the basis of the population and area in the ratio of 90:10. |
|  | Urban Local Bodies  |   |
| Million-Plus cities/agglomerations Ambient air quality Rs. 4,400 crore  Service Level Benchmarks Rs. 4,829 crore | Ambient air quality - 50 per cent for air quality improvement measures, including institution building; 50 per cent based on performance in year-on-year improvement in air quality.  Service Level Benchmarks: 100 per cent grants tied for improving water and solid waste management and achieving of star ratings by the urban local bodies | For Million-Plus cities/urban agglomerations, the city-wise distribution of grants for 2020-21 is on population basis (Annex 5.3)   |
| Other than Million-Plus cities Rs. 20,021 crore  | 50 per cent basic<br>50 per cent tied to:<br>(a) drinking water (including rainwater<br>harvesting and recycling) and<br>(b) solid waste management   | On the basis of recommendations of the latest SFC. In case the SFC recommendation is not available for distribution within a particular category, allocations should be based on population and area in the ratio of 90:10. The States should also make allotment of grants on population basis for the Cantonment Boards within their territories.   |

xix. Grants to all rural and urban local bodies (other than Million-Plus category) shall be released in two equal instalments in June 2020 and October 2020. For Million-Plus cities/urban agglomerations, disbursement of the respective grants shall be done on the recommendations of the MoHUA and MoEF&CC.

xx. The States shall transfer grants-in-aid to the local bodies within ten working days of receipt from the Union Government. Any delay beyond ten working days will require the State Governments to release the same with interest as per the effective rate of interest on market borrowings/State Development Loans (SDLs) for the previous year.

xxi. The importance of mobilisation of own revenues by self-governing local bodies cannot be overemphasised. It leads to better ownership and accountability. Internationally, property tax is one of the most effective instruments for revenue mobilisation by local bodies. For historic reasons as well as because of vested interests, property tax yields remain negligible in India. We recommend that to qualify for any grants for urban local bodies in 2021-22, States will have to appropriately notify floor rates and thereafter show consistent improvement in collection in tandem with the growth rate of State's own GSDP.

xxii. The timely availability of audited accounts – separately at the local body level and jointly at the State and all-India level – continues to be a persistent problem despite the emphasis laid by previous Commissions. We consider such availability of accounts online, both before and after audit, of individual local bodies and at the State and all-India level a critical reform agenda. With the help of modern digital infrastructure, a receipt or expenditure can have the necessary characterisation at the input stage itself. This will enable appropriate processing of data to produce the various required reports.

xxiii. In this context, for rural local bodies, it is high time to transit to an upgraded accounting code structure of the Panchayati Raj Institutions Accounting Software (PRIAsoft) system from the current four levels to the six-level structure followed by the Union and State Governments. Further, such upgraded PRIAsoft needs to be integrated with Integrated Financial Management Information System (IFMIS) of the State Governments (wherever it exists) and the Public Financial Management System (PFMS) of the Controller General of Accounts (CGA) in order to generate online accounts by each rural local body, enable online auditing of such accounts and their consolidation at the State and all-India level.

xxiv. For urban local bodies, the National Municipal Accounts Manual (NMAM) developed by the MoHUA required all State Governments to draft State-specific municipal accounts manuals. Thus, at present urban local bodies are following NMAM or State-specific manuals based on NMAM. Each urban local body needs to generate online accounts by taking advantage of IFMIS/PFMS after it is duly integrated by using appropriate IT tools. The MoHUA shall put these online accounts on a common platform,

thus having consolidated accounts, both before and after audit, at the State and all-India levels.

xxv. In view of above, this process shall be in two stages. First, the integration of the PRIASoft and NMAM systems with the State-level IFMIS and, subsequently, with PFMS to achieve complete integration. In 2020-21, under the guidance of the Comptroller and Auditor General (CAG), the concerned ministries and CGA shall develop an integrated account maintenance system as stated above on trial basis by the States before 31 March 2021, and ready for full roll-out from 1 April 2021.

# Chapter 6

# **Disaster Risk Management**

# **Current Mechanism of Disaster Risk Management**

- 6.1 In India, the responsibility of disaster risk financing is shared between the States and the Union Government, with the former bearing the primary responsibility for responding to disasters organising rescue, evacuation and relief and providing people with assistance and the Union Government providing the secondary support in the form of additional financial and technical assistance whenever necessary. The State Governments incur most of the disaster-related expenditure through their State Disaster Response Funds (SDRF) and these funds could be augmented and replenished through the National Disaster Response Fund (NDRF) when disasters of rare severity necessitate it.
- 6.2 The present disaster management system lays too much emphasis on response rather than adopting a holistic approach by earmarking financial allocations for preparedness, response, mitigation, recovery and reconstruction. The Disaster Management Act, 2005 stipulates the constitution of mitigation funds in addition to disaster response funds at the States and Union level. However, even after the directions of the Supreme Court in 2016 to set up a National Disaster Mitigation Fund (NDMF), mitigation funds are yet to be established at the national level and in a majority of the States. Secondly, adequate importance has not been given to develop the capacity of institutions and human resources to handle disasters. While the Thirteenth Finance Commission (FC-XIII) provided grants for capacity building, the FC-XIV discontinued these grants. Thirdly, successive Finance Commissions have pursued an expenditure-based approach to determine the allocation of funds for disaster management to State Governments. The FC-XIV had recommended that a risk and vulnerability assessment be conducted for the entire country to support the process of allocation. We are of the view that the expenditure-based methodology would increase the divergence in the allocations between those States which have lower initial allocation and expenditure and those with higher base of this expenditure, creating a highly asymmetric situation.
- 6.3 The FC-XIV had recommended that the Union and State Governments would contribute to the SDRF corpus in the ratio of 90:10 for all states but this was not implemented as the Union Government decided to continue with the existing pattern of 75:25 for general states and 90:10 for North-East and Himalayan states (which had been recommended by the FC-XIII). It is important to note that the Union Government, in its Action Taken Note on the recommendations of the FC-XIV, had stated that with implementation of the goods and service tax (GST), the sharing pattern of 90:10 would be implemented for all States. But with a partial implementation

of GST and the substantial reduction in the NDRF corpus following the discontinuation of a large number of cesses contributing to the National Calamity Contingent Duty (NCCD), the Union Government has continued with the 75:25 sharing pattern.

#### **Recommendations**

6.4 After extensive consultations with all stakeholders and based on experts' advice, this Commission has proposed comprehensive treatment of the entire gamut of functions of the disaster management cycle and our recommendations for the year 2020-21 are:

## **Mitigation Funds**

- (i) Mitigation funds shall be set up at both national and state levels in the form of a NDMF and State Disaster Mitigation Funds (SDMF), in accordance with the Disaster Management Act.
- (ii) These mitigation funds shall be used for those local level and community-based interventions which reduce the risks and promote environment-friendly settlements and livelihood practices. However, large-scale mitigation interventions such as construction of coastal walls, flood embankments, support for drought resilience etc. should be pursued through regular development schemes and not from the mitigation fund.
- (iii) The detailed guidelines for the constitution and utilisation of these funds shall be issued by the Ministry of Home Affairs, in consultation with National Disaster Management Authority (NDMA), before July 2020. These funds should be supervised by the NDMA at the national level and State Disaster Management Authorities (SDMAs) at the state level as per the Act.

# Allocation of Funds for Disaster Risk Management

- (iv) The coverage of the funds recommended by this Commission goes beyond the disaster response funds that already exist at the national (NDRF) and state (SDRF) levels. Hence, we have recommended the creation of funds for disaster mitigation along with disaster response, which will now together be called as National Disaster Risk Management Fund (NDRMF) and State Disaster Risk Management Funds (SDRMF).
- (v) The significant reduction in collections under the NCCD following the implementation of GST, combined with the creation of a mitigation fund at the national level, puts a substantial constraint on the availability of Union finances for disaster risk financing. We have, therefore, decided to recommend the continuation of the existing cost sharing arrangement between the Union and State Governments in the ratio of 75:25 to fund the total corpus of SDRF and SDMF. However, the share of the North-East and

Himalayan States shall continue to be 10 per cent, with the remaining 90 per cent to be provided by the Union Government.

- (vi) We have taken cognizance of the fact that after creating a mitigation fund, the total corpus available at the State level for both disaster response and mitigation shall increase substantially. We have, therefore, recommended that the total amount allocated to the States for SDRMF shall be Rs. 28,983 crore in 2020-21. Out of this, the Union share is Rs. 22,184 crore, which is 114 percent more than the Rs. 10,344 crore provided for SDRF in the 2019-20 budget estimates.
- (vii) Out of this amount of Rs. 28,983 crore, we have recommended that the share of SDRF shall be 80 per cent and the share of SDMF 20 per cent. Within the SDRF allocation of 80 per cent, there would be three sub-allocations (Table 6.1). They are Response and Relief (40 per cent), Recovery and Reconstruction (30 per cent) and Preparedness and Capacity-building (10 per cent). While the funding windows of SDRF and SDMF are not inter-changeable, there could be flexibility for re-allocation within the three sub-windows of the respective Funds and such re-allocation shall not exceed 10 per cent of the allotted amount of that sub-window for 2020-21. The State-wise allocations are provided in Annex 6.1. We also recommend that the balance in individual SDRFs at the end of 2019-20 should be carried over to 2020-21.
- (viii) In assessing the State-wise allocations, we have made a departure from the expenditure-based approach to a methodology which reflects the risk and vulnerability profile of each State. It is important to note that this methodology has been the outcome of the deliberations of the Commission with the main stakeholders like the Ministry of Home Affairs, NDMA, NITI Aayog and State Governments. We also consulted the United Nations Development Programme (UNDP) for a report on disaster risk financing. The new methodology for determining State-wise allocation for disaster management (detailed in Annex 6.2) is a combination of (a) capacity (as reflected through past expenditure), (b) risk exposure (area and population) and (c) proneness to hazard and vulnerability (disaster risk index).
- (ix) The corpus size of NDRMF at the national level shall increase substantially in 2020-21 due to the constitution of proposed mitigation funds in addition to disaster response funds. Further, as the lower proceeds from the levy of NCCD would be inadequate to fund the corpus, we recommend that the Union Government shall make an annual budgetary provision for it from its own resources. Accordingly, we recommend the total national allocation for disaster management (NDRMF) at Rs. 12,390 crore in 2020-21 by using the expenditure-based methodology (detailed in Annex 6.3). If the NDRMF releases to the States exceed the total budget provision, the Union Government shall make additional provision for resources.
- (x) The allocation for the NDRMF should also be subdivided into funding windows similar to that of the States' allocation for disaster management (Table 6.1). While there

shall be no flexibility for interchanging the allocations between NDRF and NDMF, there could be flexibility for re-allocation within the three sub-windows of NDRF, subject to the condition that the reallocated amount shall not exceed 10 per cent of the amount earmarked for that sub-window.

Table 6.1: National and States Level Allocation for Disaster Risk Management for 2020-21

(Rs crore)

|   |                 | ()             |
|---|-----------------|----------------|
| Funding windows/sub-windows                   | National Corpus | States' Corpus |
| Mitigation - 20 per cent                      | 2478 (NDMF)     | 5797 (SDMF)    |
| Response - 80 per cent                        | 9912 (NDRF)     | 23186 (SDRF)   |
| Total   | 12390 (NDRMF)   | 28983 (SDRMF)  |
| Distribution of NDRF/SDRF                     |                 |                |
| i) Response and Relief – 40 per cent          | 4956            | 11593          |
| ii) Recovery and Reconstruction – 30 per cent | 3717            | 8695           |
| iii) Capacity Building – 10 per cent          | 1239            | 2898           |

- (xi) As regards assistance for recovery and reconstruction, each disaster should be followed by a Post-Disaster Needs Assessment (PDNA). This shall be undertaken by the State Governments for relatively small-scale disasters and jointly by the Union and the State Governments in case of disasters of rare severity. The PDNA should cover damage, loss, recovery and the reconstruction needs of different sectors such as housing, infrastructure, livelihood, etc. Such an assessment would indicate entire inter-sectoral needs and the annual requirements of each such sector. The governments contribute only a part of the requirements of each sector, with the rest to be contributed by the disaster-affected people. There should also be a provision of third party audit of funds released under this mechanism. Within this framework, the Ministry of Home Affairs shall, in consultation with the NDMA, issue a detailed set of guidelines by July 2020 for recovery and reconstruction assistance under NDRF/SDRF.
- (xii) The State Governments need to have the necessary disaster preparedness to respond effectively to disasters. The preparedness and capacity-building grants are meant to support the SDMAs, State Institutes of Disaster Management (SIDM), training and capacity-building activities, purchase of emergency equipment and emergency response facilities. The State Governments shall not use these resources towards establishment expenditure such as salaries, office expenditure, etc. A similar window of preparedness and capacity-building shall be created within the NDRF, which could be used to support national agencies like National Institute of Disaster Management (NIDM), etc. It is

recommended that a separate set of guidelines be issued for preparedness and capacity-building grants by July 2020.

(xiii) Several States have brought to our notice the constraints imposed by the Ministry of Home Affairs on the norms of assistance from the SDRF and NDRF for items such as gratuitous relief, etc. We are of the view that different States face varied challenges in terms of kinds of disasters, their intensity, the type and extent of loss and their impact on livelihoods. In order to ensure timely and adequate help as well as gainful deployment of resources, the Ministry of Home Affairs shall review these norms of assistance and the conditions associated with them by providing requisite flexibility to State Governments.

### **Earmarked Allocations**

- (xiv) We are of the view that some amount shall be earmarked within NDRF and NDMF for certain priorities related to preparedness, mitigation and recovery that need to be supported through special initiatives. These priorities such as fire incidents, coastal and river erosion, urban flooding, landslides and drought, have emerged based on the magnitude of risks they have posed and how they have impacted the people. These risks cut across States and have acquired national dimensions. Though the measures needed to address them should be implemented at the State level with higher allocations from normal budgetary sources, we felt that, for better focus, they should be supported and monitored at the national level also.
- (xv) Accordingly, we recommend earmarking of Rs. 1,200 crore within the NDRF in 2020-21 for two priorities: (a) expanding and modernisation of fire services and (b) resettlement of displaced people affected by coastal and river erosion. Similarly, we recommend earmarking of Rs. 1,190 crore within NDMF in 2020-21 for four priorities: (a) catalytic assistance to twelve most drought-prone States for preparing district-level drought mitigation plans; (b) managing seismic and landslide risks in ten hill States; (c) reducing the risk of urban flooding in seven most populous cities; and (d) mitigation measures to prevent erosion. Since four of the six priorities, other than catalytic assistance to twelve most drought-prone States and managing seismic and landslide risks in ten hill States, are demand-driven, the State Governments shall contribute 10 per cent of the allocated resources. The Ministry of Home Affairs and/or NDMA shall frame the guidelines for these earmarked allocations by July 2020 and also supervise the utilisation of these resources. A brief description of these priorities are as follows:
  - (a) Expanding and Modernisation of Fire Services: Rs. 1,000 crore shall be allocated for strengthening fire services at the State level in 2020-21 through the preparedness and capacity-building component of the NDRF. The States need to submit specific proposals for these funds to the Ministry of Home Affairs. These resources should ideally provide a top-up to the existing programmes.

- (b) Catalytic Assistance to Twelve Most Drought-prone States for Preparing District-level Drought Mitigation Plans: We recommend an allocation of Rs. 240 crore from the proposed NDMF for all twelve most drought affected States (Andhra Pradesh, Bihar, Gujarat, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Telangana, and Uttar Pradesh) in 2020-21 (Rs. 20 crore each) in order to develop long-term district-level drought mitigation plans to address the challenges posed by successive droughts.
- (c) Managing Seismic and Landslide Risks in Ten Hill States: All the ten North-East and Himalayan States shall undertake a mitigation programme to address earthquake and landslide risks. We recommend an allocation of Rs. 150 crore from the proposed NDMF for seismic and landslide risk reduction programmes in 2020-21, with an allocation of Rs. 50 crore each to Himachal Pradesh and Uttarakhand and Rs. 50 crore for all the States in the North-East.
- (d) Reducing the Risk of Urban Flooding in Seven Most Populous Cities: A targeted allocation of Rs. 500 crore shall be made in 2020-21 from the NDMF to enable these cities with a population of more than five million (Mumbai, Chennai, Kolkata, Bengaluru, Hyderabad, Ahmedabad and Pune) to prepare integrated solutions for flood management, in view of the regular incidence of flooding and heavy losses. We recommend an allocation of Rs. 100 crore be made in 2020-21 for each of the three metros (Mumbai, Chennai and Kolkata) and of Rs 50 crore each for the four other cities (Bengaluru, Hyderabad, Ahmedabad and Pune).
- (e) Mitigation Measures to Prevent Coastal and River Erosion: In order to mitigate the risk of erosion, we recommend an allocation of Rs. 300 crore from the proposed NDMF in 2020-21. The States shall submit specific proposals for undertaking erosion mitigation works to the Ministry of Home Affairs.
- (f) Resettlement of Displaced People Affected by Coastal and River Erosion: Given the magnitude of the problem, we recommend that both the Union and the State Governments develop a policy to deal with the extensive displacement of people caused by coastal and river erosion. To implement this policy, we allocate Rs. 200 crore for 2020-21 to address the issue of displacement at the States level. The State Governments shall submit specific proposals for the assistance to resettle displaced people. Such assistance should be made available through the resources available from the recovery and reconstruction window of the NDRF. Such resettlement should ensure safer sites for the people being resettled.

### Chapter 7

## **Looking Ahead**

- 7.1 This *Report for the Year 2020-21* outlines the broad features of public finances as well as opportunities and challenges that India faces over the short term. In the context of recent developments and the additional Terms of Reference (ToR) received, we have restricted our analysis and recommendations to the broad essentials of fiscal federalism vertical and horizontal shares, revenue deficit grants, grants for local bodies and disaster risk management. We have also highlighted some of the areas of intervention that we will consider in greater detail in our final report as well as our expectations on fiscal reforms from the Union and State Governments.
- 7.2 While addressing its ToR, the Commission has, in this report, maintained continuity with the past in the overall division of resources between the Union and States and outlined briefly the broad policy parameters leading to its recommendations. Our assumptions on the macro variables have been kept realistic, in line with the current state of the economy and growth prospects in the short term. In determining the vertical share of taxes, we have noted the compositional shift in the overall transfers to states, and have continued with the previous approach of treating tax devolution as a more objective form of transfer of resources than other forms of transfer which are more discretionary. In determining the horizontal share of states we have taken into account the performance of individual States both in the national objective of demography management and also in the collection of taxes. We have provided grants-in-aid for local bodies, disaster relief and for States with post devolution revenue deficit. We have refrained from giving State-specific grants but have provided a road-map for sector-specific grants and performance-based incentives that we expect to address in greater detail in the final report. We acknowledge the criticality of the additional ToR asking us to examine whether a separate mechanism for funding defence and internal security is to be set up. There is merit in ensuring a predictable and stable flow of funds for defence and internal security and this will receive appropriate consideration in our final report.
- 7.3 We recognise that there are several policy issues which have not been fully addressed and need greater analysis:
  - (i) Apart from the measures already under way to restore the growth momentum of the economy, other initiatives need to be taken for completing the reform agenda and driving inclusive growth. The tax revenue of the Union and States, which stood at around 17.5 per cent of gross domestic product (GDP) in 2018-19, is not only far below India's

estimated tax capacity but has also broadly remained unchanged since the early 1990s. Low tax buoyancy is a persistent concern that needs to be addressed by broadening the tax base and streamlining rates. In particular, there is need for rationalisation of rates both for GST and customs tariffs on industrial goods in line with best international practices.

- (ii) With indirect taxes constituting almost half of the total tax revenues of the Union, GST is a critical component of the divisible pool and represents a fundamental shift in revenue federalism. The implementation of GST has thrown up multiple challenges: large shortfalls in collections vis-à-vis the original forecasts, high degree of volatility in collections, accumulation of large integrated GST (IGST) credit, continuing dependence of most States (twenty-one out of twenty-nine in 2018-19) on compensation from the Union Government to make up for the shortfall from the assured 14 per cent growth in GST revenues, glitches in the operations of GSTN in general and invoice and input tax matching, delays in refunds and serious cases of fraud in particular. The implementation of GST continues to be work in progress, and it still needs many systemic and structural improvements to expand its scope, stabilise its operations and finally deliver its stated objectives. We need also to consider the structural implications for low consumption states.
- (iii) There is also need to move towards the implementation of the Direct Tax Code by bringing all the direct taxes under a single code, removing exemptions, broad-basing the slabs, streamlining the rates and unifying compliance procedures. Parallel steps to increase the capacity and expertise of the tax administration at all tiers of government are long overdue.
- (iv) The issue of improving expenditure outcomes and prioritising public outlays has been flagged by several Finance Commissions in the past. But progress has been slow. Committed expenditure (salaries, pension and interest payment) and subsidies continue to crowd out the much needed funding for social and physical infrastructure. In particular, the power sector continues to be a major drain on state exchequers; reforms in this sector are critical for improving the finances of states. The Ujwal DISCOM Assurance Yojana (UDAY) for the financial and operational improvement and revival of power distribution companies in the states, has had mixed outcomes and most States are behind in meeting operational targets such as reduction in average technical and commercial (AT&C) losses and elimination of the gap between average cost of supply and average revenue realised (ACS-ARR gap).
- (v) Gross fixed capital formation, that is, gross investment in plant, equipment, machinery and buildings, declined by about 5 percentage points of GDP between 2011-12 and 2018-19, thereby inhibiting economic growth. Capital formation by the public sector, relative to GDP, has more or less maintained its levels, though they are very low;

and the current moderation in growth calls for a sizeable step-up in public investment in physical and social infrastructure, especially roads, power, irrigation, health, education and nutrition. However, the scope for comprehensively providing for these requirements in 2019-20 and 2020-21 is constrained by the limitations of revenue flows to the general government and needs a much better prioritising of expenditures and outcomes. These issues will be dealt with in greater detail in our final report.

- 7.4 Some States have requested the grant of special category status. This does not constitute part of the mandate of the FC-XV and remains entirely in the domain of the Union Government, which can take an appropriate decision after due consideration. However, the issue of balanced and inclusive development of all States requires a more detailed assessment and will be fully addressed in our final report.
- 7.5 Government expenditure should legitimately be covered within the respective budgets. Financing expenditures through off-budget borrowings and through para-statal entities, both by the Union and State Governments, raises public debt and detracts from compliance with the letter and spirit of the provisions of the Fiscal Responsibility and Budget Management (FRBM) Act, 2003 (as amended in 2018). Such outstanding extra-budgetary liabilities need to be clearly identified and eliminated in a time-bound manner, with transparent reporting of deficit and debt as provided in the Act.
- 7.6 Our ToR specifically mandates the Commission to address issues related to the future fiscal architecture for the country, guided by the principles of equity, efficiency and transparency. India needs specific institutional reforms to anchor the implementation of the fiscal rules that have been adopted. Such reforms will also enhance reporting standards and raise the quality of spending in the Union and the States. The country needs an overarching legal fiscal framework that would mirror the revised FRBM Act, define the roles and responsibilities of key stakeholders, as well as the budgeting, accounting, internal control and audit standards to be followed at all levels of government.
- 7.7 We recommend the constitution of an expert group to draft such a legislation which will be an important first step in establishing a statutory framework to implement the essential features of a sound Public Financial Management System that is consistent with international best practices. The group should also clearly identify those aspects of the legislation that will require consistent legislation at the level of the states.
- 7.8 Finally, we do believe that many of the initiatives currently underway and those in the offing will have beneficial effects on the overall growth momentum of the economy. The Commission believes that any credible medium term fiscal projection must be built around India achieving its growth potential. The strengthening of the Union-State federal partnership will be

### Fifteenth Finance Commission

an important driving force for enabling the country to realise its growth potential. There is no escape from the quest to seek double digit inclusive growth with continued macro-economic stability. We look forward to examining the key macro variables of the next few quarters and undertaking a more robust assessment and credible forecast for a medium term horizon.

N.K. Singh

Aiay Narayan Jha

Ajay Narayan Jha Member Anoop Singh
Member

Ashok Lahiri Member

Ramesh Chand Member (Part-time)

New Delhi 27 November, 2019

I wish to express my deep appreciation to all Members of the Commission and others who have given the benefit of their valuable advice and their unstinted commitment to the furtherance of its deliberations.

This Report, which relates to the financial year 2020-21, has also benefited from inputs received from multiple stakeholders, including research organisations and international institutions.

The leadership of Shri Arvind Mehta, Secretary of the Commission, has been of immeasurable value in multiple ways. Given his analytical calibre, understanding of complex financial issues and federal finances, he provided exemplary leadership to the Secretariat throughout the Commission's work. The Commission is deeply in his debt.

In this endeavour, he was greatly assisted by Shri Mukhmeet Singh Bhatia, Additional Secretary, who brought a broad based experience from the past Commission, and Dr. Ravi Kota, Joint Secretary, whose field experience of state finances and intricate legal issues was of great support. The Economic Advisor, Shri Antony Cyriac, gave commendable support in macro-economic modelling and in enhancing the Commission's understanding of key macro parameters while finalising its recommendations. Ms Maushumi Chakravarty, the Media Advisor, lent valuable support, along with her team, in generating awareness of the Commission's work. The secretariat was staffed by a dedicated team (Annex 7.1), many of whom came on deputation and gave their unstinted support to the Commission's work.

The Commission is also deeply indebted to the Members of the Advisory Council of the Fifteenth Finance Commission and the High Level Group on the Health Sector for their continuous and timely support.

Chairman

N.K. Singh

New Delhi 27 November, 2019

**Annex 1.1** (Para 1.1, 4.31)

### THE GAZETTE OF INDIA: EXTRAORDINARY

[Part II- Section 3- Sub-section(ii)]

## MINISTRY OF FINANCE (Department of Economic Affairs)

### NOTIFICATION New Delhi, the 27th November, 2017

S.O. 3755(E).—The following order made by the President is to be published for general information:—

### **ORDER**

In pursuance of clause (1) of article 280 of the Constitution, read with the provisions of the Finance Commission (Miscellaneous Provisions) Act, 1951 (33 of 1951), the President is pleased to constitute a Finance Commission consisting of Shri N.K. Singh, Member of Parliament and former Secretary to the Government of India, as the Chairman and the following four other members, namely:—

| 1 | Shri Shaktikanta Das, Former Secretary to the Government of India | Member      |
|---|---|-------------|
| 2 | Dr. Anoop Singh, Adjunct Professor, Georgetown University         | Member      |
| 2 | Dr. Ashok Lahiri,   | Member      |
| 3 | Chairman (Non-executive, part time) Bandhan Bank                  | (Part time) |
| 4 | Dr. Ramesh Chand,   | Member      |
| + | Member, NITI Aayog  | (Part time) |

- 2. Shri Arvind Mehta shall be the Secretary to the Commission.
- 3. The Chairman and the other members of the Commission shall hold office from the date on which they respectively assume office up to the date of submission of Report or 30th day of October, 2019, whichever is earlier.
- 4. The Commission shall make recommendations as to the following matters, namely:—
  - (i) The distribution between the Union and the States of the net proceeds of taxes which are to be, or may be, divided between them under Chapter I, Part XII of the Constitution and the allocation between the States of the respective shares of such proceeds;
  - (ii) The principles which should govern the grants-in-aid of the revenues of the States out of the Consolidated Fund of India and the sums to be paid to the States by way of grants-in-aid of their revenues under Article 275 of the Constitution for purposes other than those specified in the provisos to clause (1) of that article; and

### Fifteenth Finance Commission

- (iii) The measures needed to augment the Consolidated Fund of a State to supplement the resources of the Panchayats and Municipalities in the State on the basis of the recommendations made by the Finance Commission of the State.
- 5. The Commission shall review the current status of the finance, deficit, debt levels, cash balances and fiscal discipline efforts of the Union and the States, and recommend a fiscal consolidation roadmap for sound fiscal management, taking into account the responsibility of the Central Government and State Governments to adhere to appropriate levels of general and consolidated government debt and deficit levels, while fostering higher inclusive growth in the country, guided by the principles of equity, efficiency and transparency. The Commission may also examine whether revenue deficit grants be provided at all.
- 6. While making its recommendations, the Commission shall have regard, among other considerations, to:
  - (i) The resources of the Central Government and the State Governments for the five years commencing on 1stApril 2020 on the basis of the levels of tax and the non-tax revenues likely to be reached by 2024-25. In the context of both tax and non-tax revenues, the Commission will also take into consideration their potential and fiscal capacity;
  - (ii) The demand on the resources of the Central Government particularly on account of defence, internal security, infrastructure, railways, climate change, commitments towards administration of UTs without legislature, and other committed expenditure and liabilities;
  - (iii) The demand on the resources of the State Governments, particularly on account of financing socioeconomic development and critical infrastructure, assets maintenance expenditure, balanced regional development and impact of the debt and liabilities of their public utilities;
  - (iv) The impact on the fiscal situation of the Union Government of substantially enhanced tax devolution to States following recommendations of the 14th Finance Commission, coupled with the continuing imperative of the national development programme including New India 2022;
  - (v) The impact of the GST, including payment of compensation for possible loss of revenues for 5 years, and abolition of a number of cesses, earmarking thereof for compensation and other structural reforms programme, on the finances of Centre and States; and
  - (vi) The conditions that GoI may impose on the States while providing consent under Article 293(3) of the Constitution.
- 7. The Commission may consider proposing measurable performance-based incentives for States, at the appropriate level of government, in following areas:

- (i) Efforts made by the States in expansion and deepening of tax net under GST;
- (ii) Efforts and Progress made in moving towards replacement rate of population growth;
- (iii) Achievements in implementation of flagship schemes of Government of India, disaster resilient infrastructure, sustainable development goals, and quality of expenditure;
- (iv) Progress made in increasing capital expenditure, eliminating losses of power sector, and improving the quality of such expenditure in generating future income streams;
- (v) Progress made in increasing tax/non-tax revenues, promoting savings by adoption of Direct Benefit Transfers and Public Finance Management System, promoting digital economy and removing layers between the government and the beneficiaries;
- (vi) Progress made in promoting ease of doing business by effecting related policy and regulatory changes and promoting labour intensive growth;
- (vii) Provision of grants in aid to local bodies for basic services, including quality human resources, and implementation of performance grant system in improving delivery of services;
- (viii) Control or lack of it in incurring expenditure on populist measures; and
- (ix) Progress made in sanitation, solid waste management and bringing in behavioural change to end open defecation.
- 8. The Commission shall use the population data of 2011 while making its recommendations.
- 9. The Commission may review the present arrangements on financing Disaster Management initiatives, with reference to the funds constituted under the Disaster Management Act, 2005 (53 of 2005), and make appropriate recommendations thereon.
- 10. The Commission shall indicate the basis on which it has arrived at its findings and make available the State wise estimates of receipts and expenditure.
- 11. The Commission shall make its report available by 30th October, 2019, covering a period of five years commencing 1st April, 2020.

Sd/-RAM NATH KOVIND President of India

New Delhi Dated the 27th November, 2017

[No. 10(1)-B(S)/2016] PRASHANT GOYAL, Jt. Secy. (Budget)

## THE GAZETTE OF INDIA: EXTRAORDINARY [Part II- Section 3- Sub-section(ii)]

MINISTRY OF FINANCE (Department of Economic Affairs)

### **CORRIGENDUM**

New Delhi, the 4th December, 2017

S.O. 3802(E).—In the notification of the Government of India in the Ministry of Finance (Department of Economic Affairs) number S.O.3755(E), dated the 27th November, 2017 published in the Gazette of India, Extraordinary, dated the 27th November, 2017 in line 3, paragraph 1, for "Member of Parliament" read "former Member of Parliament" .

[F. No.10(1)-B(S)/2016] PRASHANT GOYAL, Jt. Secy.

**Annex 1.3** (Para 1.1)

### THE GAZETTE OF INDIA: EXTRAORDINARY

[Part II- Section 3- Sub-section(ii)]

## MINISTRY OF FINANCE (Department of Economic Affairs)

### **NOTIFICATION**

New Delhi, the 17th May, 2018

S.O. 1964(E).—The following order made by the President to be published for general information:—

### **ORDER**

Whereas, the Fifteenth Finance Commission has been constituted by the President by an Order published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (ii) vide notification of the Government of India in the Ministry of Finance, (Department of Economic Affairs) number S.O. 3755 (E), dated the 27th November, 2017, and Dr. Ashok Lahiri was appointed as a Member (Part time) of the said Commission;

And, whereas, Dr. Ashok Lahiri has resigned as Chairman (Non-executive, part time) Bandhan Bank; And, whereas, the President is pleased to appoint Dr. Ashok Lahiri as Member of the Finance Commission and for that purpose makes the following amendment in the Order aforesaid, namely: -

In the said Order, in paragraph 1, for serial number 3 and the entries relating thereto, the following serial number and entries shall be substituted, namely: -

"3. Dr.Ashok Lahiri
Former Chief Economic Adviser,
Ministry of Finance
and
Former Chairman (Non-executive, part time)
Bandhan Bank

Sd/-RAM NATH KOVIND President of India

[F. No. 10(3)-B(S)/2016] ARVIND SHRIVASTAVA, Jt. Secy. (Budget)

- Member"

Note: The principal notification for constitution of the Finance Commission was published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (ii) vide number S.O. 3755 (E), dated the 27th November, 2017.

### THE GAZETTE OF INDIA: EXTRAORDINARY

[Part II- Section 3- Sub-section(ii)]

## MINISTRY OF FINANCE (Department of Economic Affairs)

### **NOTIFICATION**

New Delhi, the 12th December, 2018

S.O. 6142(E).—The following Order made by the President to be published for general information:-

### ORDER

Whereas, the Fifteenth Finance Commission has been constituted by the President with the Notification of the Government of India, in the Ministry of Finance (Department of Economic Affairs) published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-Section (ii), vide S.O. 3755(E), dated the 27th November, 2017 and Shri Shaktikanta Das was appointed as Member of the said Commission.

And, whereas, Shri Shaktikanta Das has resigned as Member from the said Commission and the President has been pleased to accept the said resignation with effect from the 11th December 2018.

Sd/-(RAM NATH KOVIND) President of India

New Delhi Dated the 12th December, 2018

[F. No. 10(1)-B(S)/2016] ARVIND SHRIVASTAVA, Jt. Secy. (Budget)

Note: The Principal notification for constitution of the Finance Commission was published in the Gazette of India, Extraordinary vide number S.O. 3755 (E), dated the 27th November, 2017

**Annex 1.5** (Para 1.1)

### THE GAZETTE OF INDIA: EXTRAORDINARY

[Part II- Section 3- Sub-section(ii)]

## MINISTRY OF FINANCE (Department of Economic Affairs)

### **NOTIFICATION**

New Delhi, the 27th February, 2019

S.O. 1040(E).—The following Order made by the President to be published for general information:-

#### **ORDER**

Whereas, the Fifteenth Finance Commission has been constituted by the President by an order of the Government of India, in the Ministry of Finance (Department of Economic Affairs) published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (ii), vide S.O. 3755(E), dated the 27th November, 2017 and Shri Shaktikanta Das was appointed as one of the Member of the said Commission.

And whereas, Shri Shaktikanta Das had resigned as Member from the said Commission and the President had pleased to accept the said resignation with effect from the 11th December 2018 by an order of the Government of India, in the Ministry of Finance (Department of Economic Affairs) published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (ii), vide S.O. 6142(E), dated the 12th December, 2018;

Now, therefore, in pursuance of clause (1) of article 280 of the Constitution, read with sections 3, 4 and 6 of the Finance Commission (Miscellaneous Provisions) Act, 1951 (33 of 1951), the President is pleased to appoint Shri Ajay Narayan Jha as Member of the Finance Commission with effect from the 1st March, 2019 and for that purpose makes the following amendment in the aforesaid Order dated the 27th November, 2017, namely:-

In the said Order, in paragraph 1, for serial number 1 and the entries relating thereto, the following serial number and entries shall be substituted, namely:-

"1. Shri Ajay Narayan Jha, Finance Secretary, Government of India - Member"

Sd/-RAM NATH KOVIND President of India

New Delhi Dated the 27th February, 2019

[F. No. 10(1)-B(S)/2016] ARVIND SHRIVASTAVA, Jt. Secy. (Budget)

Note: The Principal order for constitution of the Finance Commission was published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (ii), vide number S.O. 3755(E), dated the 27th November, 2017.

### THE GAZETTE OF INDIA: EXTRAORDINARY

[Part II- Section 3- Sub-section(ii)]

MINISTRY OF FINANCE (Department of Economic Affairs)

### **NOTIFICATION**

New Delhi, the 29th July, 2019

S.O. 2691(E). —The following order made by the President is published for general information:-

### ORDER

In pursuance of clause (1) of article 280 of the Constitution, read with the provisions contained in the Finance Commission (Miscellaneous Provisions) Act, 1951 (33 of 1951), the President is pleased to further amend the order number S.O.3755 (E), dated the 27th November, 2017, published in the Gazette of India, Extraordinary, Part II, Section 3, Subsection (ii), dated the 27th November, 2017, namely:-

In the said order,-

- in paragraph 3, for the words, figures and letters "the 30th day of October, (a) 2019", the words, figures and letters "the 30th day of November, 2019" shall be substituted:
- (b) after paragraph 9, the following paragraph shall be inserted, namely:- "9A. The Commission shall also examine whether a separate mechanism for funding of defence and internal security ought to be set up, and if so, how such a mechanism could be operationalised.";
- in paragraph 11, for the words, figures and letters "the 30th day of October, (c) 2019", the words, figures and letters "the 30th day of November, 2019" shall be substituted.

Sd./-(RAM NATH KOVIND) President of India

New Delhi Dated the 29th July, 2019

> [F. No. 10 (1)-B(S)/2016/vol.III] ARVIND SRIVASTAVA, Jt. Secy. (Budget)

Note: The Principal order was published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (ii), vide number S.O. 3755(E), dated the 27th November, 2017 and subsequently amended vide the following notifications, namely:-

- (i)
- (ii)
- S.O. 3802(E), dated the 4<sup>th</sup> December, 2017; S.O. 1964(E), dated the 17<sup>th</sup> May, 2018; S.O. 6142(E), dated the 12<sup>th</sup> December, 2018; (iii)
- S.O. 1040(E), dated the 27<sup>th</sup> February, 2019. (iv)

Annex 2.1 (Para 2.8, 2.10, 2.26, 2.30, 2.53)

**Projection of Union Government Finances for 2020-21** 

| Projection of Union G  | Sovernment Financ | es for 2020-21     | (Rs. Crore)    |
|--|-------------------|--------------------|----------------|
|  | 2019-20 BE        | 2019-20 reassessed | 2020-21        |
| Gross Revenue Receipts   | 2774374           | 2610188            | 2931856        |
| Gross Tax Revenue  | 2461195           | 2255000            | 2537670        |
| Corporation Tax  | 766000            | 631000             | 714040         |
| Income Tax   | 569000            | 559000             | 651011         |
| Customs Duties   | 155904            | 150500             | 173075         |
| Union Excise Duties  | 300000            | 280000             | 295400         |
| Goods and Services Tax   | 663343            | 628000             | 696929         |
| Other Taxes  | 6948              | 6500               | 7215           |
| Non-Tax Revenues   | 313179            | 355188             | 394186         |
| Interest Receipts  | 13711             | 13711              | 11379          |
| Dividends and Profits  | 57487             | 57487              | 63810          |
| Dividend/Surplus from RBI  | 106042            | 148051             | 164337         |
| Petroleum  | 16930             | 16930              | 18793          |
| Telecommunication  | 50520             | 50520              | 56077          |
| Other Non Tax Revenues   | 68489             | 68489              | 79790          |
| Tax Share to States  | 809133            | 778166             | 855176         |
| NCCD Transfer to NCCF/NDRF   | 2480              | 2480               | 2791           |
| Net Revenues to the Centre   | 1962761           | 1829542            | 2073889        |
| Revenue Expenditure  | 2447779           | 2398824            | 2658046        |
| General services   | 1167899           | 1165183            | 1263806        |
| Interest Payments  | 660471            | 660471             | 709600         |
| Defence revenue expenditure  | 201902            | 201902             | 224111         |
| Pensions   | 174300            | 174300             | 189987         |
| Police   | 85115             | 84264              | 91510          |
| Fiscal services  | 17336             | 17163              | 18850          |
| External affairs   | 8717              | 8630               | 9479           |
| Other general services   | 20058             | 18453              | 20269          |
| Social services  | 114503            | 108778             | 119801         |
| Total Economic services  | 201263            | 160749             | 177043         |
| Transport and communication  | 21172             | 20537              | 22715          |
| Science, technology and environment                                | 28806             | 27942              | 30905          |
| Export promotion   | 1948              | 1890               | 2097           |
| Power  | 12728             | 12346              | 13655          |
| Other economic services  | 136609            | 98034              | 107671         |
| Subsidy  | 338949            | 338949             | 343648         |
| Food   | 184220            | 184220             | 184220         |
| Others   | 154729            | 154729             | 159428         |
| Grants-in-Aid to State Governments                                 | 120467            | 120467             | 201023         |
| Recommended by Finance Commission                                  | 2.4206            | 24206              | 74240          |
| Revenue Deficit Grants   | 34206             | 34206              | 74340          |
| Disaster Relief Grants to States                                   | 10344<br>75917    | 10344              | 22184<br>90000 |
| Grants to Local Bodies to States                                   | /391/             | 75917              |                |
| Special grants   |                   |                    | 6764           |
| Sector-specific grant  | 467060            | 465060             | 7735           |
| Provision for other transfers (expected)<br>to States, of which ** | 465968            | 465968             | 479268         |
|  | 96000             | 96000              | 105600         |
| GST compensation to States Grants-in-Aid to Union Territories #    | 96000             | 96000              | 41555          |
| Other revenue expenditure  | 29002             | 29002              | 31902          |
| Capital Expenditure  | 338569            | 334506             | 348067         |
| Non-Debt Capital Receipts  | 119828            | 119828             | 119828         |
| Revenue Deficit/Surplus(-)   | 485018            | 569282             | 584157         |
| Fiscal Deficit/Surplus(-)  | 703759            | 783960             | 812396         |
| Adjusted Outstanding Debt*   | 9711763           | 9791964            | 10604360       |
| GDP  | 21100607          | 20911180           | 23211410       |
| GD1  | 2110007           | 2071110U           | 23211710       |

Note: (\*) The adjusted outstanding liabilities presented in the table are equal to the outstanding liabilities shown in the Union budget, minus the state borrowing from NSSF, minus cash balances plus extra budgetary resources, as disclosed in the Union Budget 2019-20, and finally adjusted for external debt at current exchange rate.

<sup>\*\*:</sup> Includes transfers made through functional heads also. The functional heads have been adjusted to this extent.

(#) Calculations have been done keeping in view of the requirements of UT of Jammu and Kashmir.

Annex 2.2 (Para 2.30)

### Projection of Union Government Finances for 2020-21

(per cent of GDP)

|   |            |                    | it of GDP) |
|---|------------|--------------------|------------|
|   | 2019-20 BE | 2019-20 reassessed | 2020-21    |
| Gross Revenue Receipts                      | 13.15      | 12.48              | 12.63      |
| Gross Tax Revenue                           | 11.66      | 10.78              | 10.93      |
| Corporation Tax                             | 3.63       | 3.02               | 3.08       |
| Income Tax                                  | 2.70       | 2.67               | 2.80       |
| Customs Duties                              | 0.74       | 0.72               | 0.75       |
| Union Excise Duties                         | 1.42       | 1.34               | 1.27       |
| Goods and Services Tax                      | 3.14       | 3.00               | 3.00       |
| Other Taxes                                 | 0.03       | 0.03               | 0.03       |
| Non-Tax Revenues                            | 1.48       | 1.70               | 1.70       |
| Interest Receipts                           | 0.06       | 0.07               | 0.05       |
| Dividends and Profits                       | 0.27       | 0.27               | 0.27       |
| Dividend/Surplus from RBI                   | 0.50       | 0.71               | 0.71       |
| Petroleum                                   | 0.08       | 0.08               | 0.08       |
| Telecommunication                           | 0.24       | 0.24               | 0.24       |
| Other Non Tax Revenues                      | 0.32       | 0.33               | 0.34       |
| Tax Share to States                         | 3.83       | 3.72               | 3.68       |
| NCCD Transfer to NCCF/NDRF                  | 0.01       | 0.01               | 0.01       |
| Net Revenues to the Centre                  | 9.30       | 8.75               | 8.93       |
| Revenue Expenditure                         | 11.60      | 11.47              | 11.45      |
| General services                            | 5.53       | 5.57               | 5.44       |
| Interest Payments                           | 3.13       | 3.16               | 3.06       |
| Defence revenue expenditure                 | 0.96       | 0.97               | 0.97       |
| Pensions                                    | 0.83       | 0.83               | 0.82       |
| Police                                      | 0.40       | 0.40               | 0.39       |
| Fiscal services                             | 0.08       | 0.08               | 0.08       |
| External affairs                            | 0.04       | 0.04               | 0.04       |
| Other general services                      | 0.10       | 0.09               | 0.09       |
| Social services                             | 0.54       | 0.52               | 0.52       |
| Total Economic services                     | 0.95       | 0.77               | 0.76       |
| Transport and communication                 | 0.10       | 0.10               | 0.10       |
| Science, technology and environment         | 0.14       | 0.13               | 0.13       |
| Export promotion                            | 0.01       | 0.01               | 0.01       |
| Power                                       | 0.06       | 0.06               | 0.06       |
| Other economic services                     | 0.65       | 0.47               | 0.46       |
| Subsidy                                     | 1.61       | 1.62               | 1.48       |
| Food  | 0.87       | 0.88               | 0.79       |
| Others                                      | 0.73       | 0.74               | 0.69       |
| Grants-in-Aid to State Governments          | 0.57       | 0.58               | 0.87       |
| Recommended by Finance Commission           | 0.16       | 0.16               | 0.22       |
| Revenue Deficit Grants                      | 0.16       | 0.16               | 0.32       |
| Disaster Relief Grants to States            | 0.05       | 0.05               | 0.10       |
| Grants to Local Bodies to States            | 0.36       | 0.36               | 0.39       |
| Special grants                              |            |                    | 0.03       |
| Sector -specific grant                      | 2.21       | 2.22               | 0.03       |
| Provision for other transfers (expected) to | 2.21       | 2.23               | 2.06       |
| States, of which **                         | 0.45       | 0.46               | 0.15       |
| GST compensation to States                  | 0.45       | 0.46               | 0.45       |
| Grants-in-Aid to Union Territories #        | 0.05       | 0.05               | 0.18       |
| Other revenue expenditure                   | 0.14       | 0.14               | 0.14       |
| Capital Expenditure                         | 1.60       | 1.60               | 1.50       |
| Non-Debt Capital Receipts                   | 0.57       | 0.57               | 0.52       |
| Revenue Deficit/Surplus(-)                  | 2.30       | 2.72               | 2.52       |
| Fiscal Deficit/Surplus(-)                   | 3.34       | 3.75               | 3.50       |
| Adjusted Outstanding Debt*                  | 46.03      | 46.83              | 45.69      |

Note: (\*) The adjusted outstanding liabilities presented in the table are equal to the outstanding liabilities shown in the Union budget, minus the state borrowing from NSSF, minus cash balances plus extra budgetary resources, as disclosed in the Union Budget 2019-20, and finally adjusted for external debt at current exchange rate.

<sup>\*\*:</sup> Includes transfers made through functional heads also. The functional heads have been adjusted to this extent. (#) Calculations have been done keeping in view of the requirements of UT of Jammu and Kashmir.

Annex: 2.3 (Para 2.38)

### **Projected Annual Growth Rate of Comparable GSDP**

|                   |         | (Per cent |
|-------------------|---------|-----------|
| States            | 2019-20 | 2020-21   |
| Andhra Pradesh    | 10.6    | 11.5      |
| Arunachal Pradesh | 10.0    | 10.9      |
| Assam             | 9.8     | 10.7      |
| Bihar             | 10.0    | 11.0      |
| Chhattisgarh      | 9.5     | 10.6      |
| Goa               | 9.9     | 10.9      |
| Gujarat           | 10.0    | 11.0      |
| Haryana           | 10.5    | 11.5      |
| Himachal Pradesh  | 9.3     | 10.3      |
| Jharkhand         | 9.4     | 10.5      |
| Karnataka         | 10.8    | 11.7      |
| Kerala            | 9.9     | 10.9      |
| Madhya Pradesh    | 10.7    | 11.6      |
| Maharashtra       | 9.7     | 10.7      |
| Manipur           | 9.5     | 10.5      |
| Meghalaya         | 8.4     | 9.5       |
| Mizoram           | 11.2    | 12.0      |
| Nagaland          | 9.6     | 10.5      |
| Odisha            | 9.7     | 10.7      |
| Punjab            | 9.6     | 10.6      |
| Rajasthan         | 10.0    | 11.0      |
| Sikkim            | 10.2    | 11.1      |
| Tamil Nadu        | 9.9     | 10.9      |
| Telangana         | 10.3    | 11.3      |
| Tripura           | 11.0    | 11.8      |
| Uttar Pradesh     | 10.2    | 11.2      |
| Uttarakhand       | 9.2     | 10.2      |
| West Bengal       | 9.7     | 10.7      |
| All States        | 10.0    | 11.0      |

Annex 2.4 (Para 2.49)

### **Projected Own Revenue Receipts and Revenue Expenditure for 2019-20**

(Rs Crore)

| Andhra Pradesh         971888         73012         68288         4723         113241         17244         14384           Arunachal Pradesh         27028         1382         1120         262         10010         635         945           Assam         344542         23818         18851         4967         55964         4793         8982           Bihar         584285         39236         34946         4289         100738         10723         18458           Chhattisgarh         347968         35969         28304         7665         45881         4699         4930           Goa         85703         8454         6792         1662         10255         1512         1376           Gujarat         1471581         119298         100862         18436         112052         21509         15423           Haryana         791349         66477         57601         8876         71707         16633         9000           Himachal Pradesh         176383         12089         10069         2020         29265         4550         6660           Jharkhand         332876         27244         17791         9453         39781         5187         5762   | Surplus(-) 40230 8628 32146 61502 9912 1802 -7246 5230 17176 12537 12748 31508              |
|---|---|
| Arunachal Pradesh         27028         1382         1120         262         10010         635         945           Assam         344542         23818         18851         4967         55964         4793         8982           Bihar         584285         39236         34946         4289         100738         10723         18458           Chhattisgarh         347968         35969         28304         7665         45881         4699         4930           Goa         85703         8454         6792         1662         10255         1512         1376           Gujarat         1471581         119298         100862         18436         112052         21509         15423           Haryana         791349         66477         57601         8876         71707         16633         9000           Himachal Pradesh         176383         12089         10069         2020         29265         4550         6660           Jharkhand         332876         27244         17791         9453         39781         5187         5762           Karnataka         1683109         135624         127763         7860         148371         19060         19236 </td <td>8628<br/>32146<br/>61502<br/>9912<br/>1802<br/>-7246<br/>5230<br/>17176<br/>12537<br/>12748<br/>31508</td> | 8628<br>32146<br>61502<br>9912<br>1802<br>-7246<br>5230<br>17176<br>12537<br>12748<br>31508 |
| Bihar         584285         39236         34946         4289         100738         10723         18458           Chhattisgarh         347968         35969         28304         7665         45881         4699         4930           Goa         85703         8454         6792         1662         10255         1512         1376           Gujarat         1471581         119298         100862         18436         112052         21509         15423           Haryana         791349         66477         57601         8876         71707         16633         9000           Himachal Pradesh         176383         12089         10069         2020         29265         4550         6660           Jharkhand         332876         27244         17791         9453         39781         5187         5762           Karnataka         1683109         135624         127763         7860         148371         19060         19236           Kerala         852800         68554         64509         4045         100062         17201         18912           Madhya Pradesh         864970         75779         64738         11042         112098         14432  | 61502<br>9912<br>1802<br>-7246<br>5230<br>17176<br>12537<br>12748<br>31508                  |
| Chhattisgarh         347968         35969         28304         7665         45881         4699         4930           Goa         85703         8454         6792         1662         10255         1512         1376           Gujarat         1471581         119298         100862         18436         112052         21509         15423           Haryana         791349         66477         57601         8876         71707         16633         9000           Himachal Pradesh         176383         12089         10069         2020         29265         4550         6660           Jharkhand         332876         27244         17791         9453         39781         5187         5762           Karnataka         1683109         135624         127763         7860         148371         19060         19236           Kerala         852800         68554         64509         4045         100062         17201         18912           Madhya Pradesh         864970         75779         64738         11042         112098         14432         14017           Maharashtra         2888579         244910         225587         19323         251040         35207 <td>9912<br/>1802<br/>-7246<br/>5230<br/>17176<br/>12537<br/>12748<br/>31508</td>                            | 9912<br>1802<br>-7246<br>5230<br>17176<br>12537<br>12748<br>31508                           |
| Goa         85703         8454         6792         1662         10255         1512         1376           Gujarat         1471581         119298         100862         18436         112052         21509         15423           Haryana         791349         66477         57601         8876         71707         16633         9000           Himachal Pradesh         176383         12089         10069         2020         29265         4550         6660           Jharkhand         332876         27244         17791         9453         39781         5187         5762           Karnataka         1683109         135624         127763         7860         148371         19060         19236           Kerala         852800         68554         64509         4045         100062         17201         18912           Madhya Pradesh         864970         75779         64738         11042         112098         14432         14017           Maharashtra         2888579         244910         225587         19323         251040         35207         27832           Meghalaya         35063         2448         2016         432         8956         746  | 1802<br>-7246<br>5230<br>17176<br>12537<br>12748<br>31508                                   |
| Gujarat         1471581         119298         100862         18436         112052         21509         15423           Haryana         791349         66477         57601         8876         71707         16633         9000           Himachal Pradesh         176383         12089         10069         2020         29265         4550         6660           Jharkhand         332876         27244         17791         9453         39781         5187         5762           Karnataka         1683109         135624         127763         7860         148371         19060         19236           Kerala         852800         68554         64509         4045         100062         17201         18912           Madhya Pradesh         864970         75779         64738         11042         112098         14432         14017           Maharashtra         2888579         244910         225587         19323         251040         35207         27832           Manipur         31299         1294         1083         211         9597         655         1658           Meghalaya         35063         2448         2016         432         8956         746   | -7246<br>5230<br>17176<br>12537<br>12748<br>31508   |
| Haryana         791349         66477         57601         8876         71707         16633         9000           Himachal Pradesh         176383         12089         10069         2020         29265         4550         6660           Jharkhand         332876         27244         17791         9453         39781         5187         5762           Karnataka         1683109         135624         127763         7860         148371         19060         19236           Kerala         852800         68554         64509         4045         100062         17201         18912           Madhya Pradesh         864970         75779         64738         11042         112098         14432         14017           Maharashtra         2888579         244910         225587         19323         251040         35207         27832           Manipur         31299         1294         1083         211         9597         655         1658           Meghalaya         35063         2448         2016         432         8956         746         855           Mizoram         23853         982         762         219         6305         359         1064  | 5230<br>17176<br>12537<br>12748<br>31508  |
| Himachal Pradesh         176383         12089         10069         2020         29265         4550         6660           Jharkhand         332876         27244         17791         9453         39781         5187         5762           Karnataka         1683109         135624         127763         7860         148371         19060         19236           Kerala         852800         68554         64509         4045         100062         17201         18912           Madhya Pradesh         864970         75779         64738         11042         112098         14432         14017           Maharashtra         2888579         244910         225587         19323         251040         35207         27832           Manipur         31299         1294         1083         211         9597         655         1658           Meghalaya         35063         2448         2016         432         8956         746         855           Mizoram         23853         982         762         219         6305         359         1064           Nagaland         29767         1154         850         304         9305         881         2008 </td <td>17176<br/>12537<br/>12748<br/>31508</td>   | 17176<br>12537<br>12748<br>31508  |
| Jharkhand         332876         27244         17791         9453         39781         5187         5762           Karnataka         1683109         135624         127763         7860         148371         19060         19236           Kerala         852800         68554         64509         4045         100062         17201         18912           Madhya Pradesh         864970         75779         64738         11042         112098         14432         14017           Maharashtra         2888579         244910         225587         19323         251040         35207         27832           Manipur         31299         1294         1083         211         9597         655         1658           Meghalaya         35063         2448         2016         432         8956         746         855           Mizoram         23853         982         762         219         6305         359         1064           Nagaland         29767         1154         850         304         9305         881         2008           Odisha         529943         49946         39752         10195         68575         6500         13330 <td>12537<br/>12748<br/>31508</td>  | 12537<br>12748<br>31508   |
| Karnataka         1683109         135624         127763         7860         148371         19060         19236           Kerala         852800         68554         64509         4045         100062         17201         18912           Madhya Pradesh         864970         75779         64738         11042         112098         14432         14017           Maharashtra         2888579         244910         225587         19323         251040         35207         27832           Manipur         31299         1294         1083         211         9597         655         1658           Meghalaya         35063         2448         2016         432         8956         746         855           Mizoram         23853         982         762         219         6305         359         1064           Nagaland         29767         1154         850         304         9305         881         2008           Odisha         529943         49946         39752         10195         68575         6500         13330   | 12748<br>31508  |
| Kerala         852800         68554         64509         4045         100062         17201         18912           Madhya Pradesh         864970         75779         64738         11042         112098         14432         14017           Maharashtra         2888579         244910         225587         19323         251040         35207         27832           Manipur         31299         1294         1083         211         9597         655         1658           Meghalaya         35063         2448         2016         432         8956         746         855           Mizoram         23853         982         762         219         6305         359         1064           Nagaland         29767         1154         850         304         9305         881         2008           Odisha         529943         49946         39752         10195         68575         6500         13330   | 31508   |
| Madhya Pradesh         864970         75779         64738         11042         112098         14432         14017           Maharashtra         2888579         244910         225587         19323         251040         35207         27832           Manipur         31299         1294         1083         211         9597         655         1658           Meghalaya         35063         2448         2016         432         8956         746         855           Mizoram         23853         982         762         219         6305         359         1064           Nagaland         29767         1154         850         304         9305         881         2008           Odisha         529943         49946         39752         10195         68575         6500         13330   |   |
| Maharashtra         2888579         244910         225587         19323         251040         35207         27832           Manipur         31299         1294         1083         211         9597         655         1658           Meghalaya         35063         2448         2016         432         8956         746         855           Mizoram         23853         982         762         219         6305         359         1064           Nagaland         29767         1154         850         304         9305         881         2008           Odisha         529943         49946         39752         10195         68575         6500         13330  |   |
| Manipur         31299         1294         1083         211         9597         655         1658           Meghalaya         35063         2448         2016         432         8956         746         855           Mizoram         23853         982         762         219         6305         359         1064           Nagaland         29767         1154         850         304         9305         881         2008           Odisha         529943         49946         39752         10195         68575         6500         13330   | 36319   |
| Meghalaya         35063         2448         2016         432         8956         746         855           Mizoram         23853         982         762         219         6305         359         1064           Nagaland         29767         1154         850         304         9305         881         2008           Odisha         529943         49946         39752         10195         68575         6500         13330   | 6130  |
| Mizoram         23853         982         762         219         6305         359         1064           Nagaland         29767         1154         850         304         9305         881         2008           Odisha         529943         49946         39752         10195         68575         6500         13330  | 8303  |
| Nagaland         29767         1154         850         304         9305         881         2008           Odisha         529943         49946         39752         10195         68575         6500         13330  | 6508  |
| Odisha 529943 49946 39752 10195 68575 6500 13330  | 5324  |
|   | 8151  |
| Punjab 579653 48791 45433 3358 72077 17669 10875  | 18628   |
|   | 23286   |
| Raja sthan 1016378 88734 71322 17412 128082 23133 22580   | 39348   |
| Sikkim 30239 1417 933 484 4941 537 1186   | 3524  |
| Tamil Nadu 1791985 139726 126583 13143 181063 32461 32395   | 41337   |
| Telangana 922685 86670 77032 9638 82322 14575 10333   | -4348   |
| Tripura 54882 2762 2142 621 11486 990 2290  | 8724  |
| Uttar Pradesh 1785171 152322 134471 17851 261558 35374 53134  | 109236  |
| Uttarakhand 267029 16764 14988 1775 30600 5332 5943   | 13837   |
| West Bengal 1166691 76149 72420 3729 139924 31151 15907   | 63775   |
| All States 19687699 1601004 1417008 183995 2215257 343750 339475  | 625848#   |
| General States 18667614 1536895 1364194 172701 2038828 324271 307884  | 513527#   |
| NE & HS 1020085 64109 52814 11295 176429 19479 31591  | 112320#   |

Annex 2.4 (Cont.) (Para 2.49, 4.7)

### Projected Own Revenue Receipts and Revenue Expenditure for 2020-21

(Rs Crore)

| Andhra Pradesh 1083655 82664 77398 5267 123718 18968 15679 41054 Arnuachal Pradesh 29974 1552 1262 291 10735 691 1030 9183 Assam 381408 26689 21190 5499 61044 5272 9790 34355 Bihar 648556 44167 39406 4761 111777 11796 20119 67611 Chhattisgarh 384853 40262 31784 8477 53030 5169 5374 10068 Gujarat 1633455 134196 113732 20464 123010 23660 16811 -11186 Haryana 882354 75182 65285 9897 78482 18290 9810 3300 Himachal Pradesh 194550 13500 11272 2228 31764 4917 7260 18264 Haryana 882354 75182 65285 9897 78482 18290 9810 3300 Himachal Pradesh 194550 13500 11272 2228 31764 4917 7260 18264 Markhand 367828 30403 19988 10446 43894 5706 6280 13491 Karnataka 1880033 153883 145103 8780 162648 20966 20967 8764 Kerala 945755 77152 72665 4486 10901 18921 20614 31939 Madhya Pradesh 965307 85771 73449 12322 123833 15875 15279 38062 Maharashtra 3197657 274977 253587 21391 272231 38728 30337 -2-746 Manipur 34585 1448 1214 233 10411 721 1807 8964 Maipur 34585 1448 1214 233 10411 721 1807 8964 Maipur 34585 1448 1214 233 10411 721 1807 8964 Maipur 34585 1448 1214 233 10411 721 1807 8964 Maipur 34585 1448 1214 233 10411 721 1807 8964 Maipur 34585 1448 1214 233 10411 721 1807 8964 Maipur 34585 1448 1214 233 10411 721 1807 8964 Maipur 34585 1448 1214 233 10411 721 1807 8964 Maipur 34585 1448 1214 233 10411 721 1807 8964 Maipur 34585 1448 1214 233 10411 721 1807 8964 Maipur 34585 1448 1214 233 10411 721 1807 8964 Maghalaya 38394 2711 2238 473 9744 819 932 7033 Mizoram 26716 1114 868 246 6864 395 1160 5750 Nagaland 32892 1290 954 335 10107 943 2189 8817 Odisha 586647 55971 44686 11286 75697 7150 14530 19726 Punjab 641096 54734 51020 3714 77684 18878 11854 22950 Nagaland 128180 99750 80422 19327 139430 25256 24612 39681 Tripura 61358 3129 2435 6694 12428 1891 57916 115332 Uttarakhand 1987311 157163 142588 14575 197012 35707 35311 39848 Telangana 1026948 97856 87129 10728 90122 16032 11263 -7735 Tripura 61358 1329 14588 14575 197012 35707 35311 39848 Telangana 1026948 18786 187264 24248 18991 57916 115332 Uttarakhand 294266 18718 16762 1985 232 |                       |          |         |         |        |         |        |         | (KS Crore)                     |
|--|-----------------------|----------|---------|---------|--------|---------|--------|---------|--------------------------------|
| Andlara Pradesh  | States                | GSDP     | ORR     | OTR     | ONTR   | TRE     | IP     | Pension | PDR Deficit (+)/<br>Surplus(-) |
| Assam         381408         26689         21190         5499         61044         5272         9790         34355           Bihar         648556         44167         39406         4761         111777         11796         20119         67611           Chhattisgarh         384853         40262         31784         8477         50330         5169         5374         10068           Goa         95044         4949         7651         1843         11162         1664         1500         1668           Gujarat         1633455         134196         113732         20464         123010         2360         16811         -11186           Haryana         882354         75182         65285         9897         78482         18290         9810         3300           Himachal Pradesh         194550         13500         11272         2228         31764         4917         7260         18264           Karnataka         1880033         15383         145103         8780         162648         20966         20967         8764           Kerala         945755         77152         72665         4486         109091         18921         20614         31939  | Andhra Pradesh        | 1083655  | 82664   | 77398   | 5267   | 123718  | 18968  | 15679   |                                |
| Bihar         648556         44167         39406         4761         111777         11796         20119         67611           Chhattisgarh         384853         40262         31784         8477         50330         5169         5374         10068           Goa         95044         9494         7651         1843         11162         1664         1500         1668           Gujarat         1633455         134196         113732         20464         123010         23660         16811         -11186           Haryana         882354         75182         65285         9897         78482         18290         9810         3300           Himachal Pradesh         194550         13500         11272         2228         31764         4917         7260         18264           Jharkhand         367828         30403         19958         10446         43894         5706         6280         13491           Karnataka         1880033         153883         145103         8780         162648         20966         20967         8764           Kerala         945755         77152         72665         4486         109091         18921         20614         3193  | Arunachal Pradesh     | 29974    | 1552    | 1262    | 291    | 10735   | 691    | 1030    | 9183                           |
| Chhattisgarh         384853         40262         31784         8477         50330         5169         5374         10068           Goa         95044         9494         7651         1843         11162         1664         1500         1668           Gujarat         1633455         134196         113732         20464         123010         23660         16811         -11186           Haryana         882354         75182         65285         987         78482         18290         9810         3300           Himachal Pradesh         194550         13500         11272         22228         31764         4917         7260         18264           Jharkhand         367828         30403         19958         10446         43894         5706         6280         13491           Karnataka         1880033         153883         145103         8780         162648         20966         20967         8764           Kerala         945755         77152         72665         4486         109091         18921         20614         31939           Madharashtra         3197657         27497         253587         21391         272231         38728         30337   | Assam                 | 381408   | 26689   | 21190   | 5499   | 61044   | 5272   | 9790    | 34355                          |
| Goa         95044         9494         7651         1843         11162         1664         1500         16688           Gujarat         1633455         134196         113732         20464         123010         23660         16811         -11186           Haryana         882354         75182         65285         9897         78482         18290         9810         3300           Himachal Pradesh         194550         13500         11272         2228         31764         4917         7260         18264           Jarkhand         367828         30403         19958         10446         43894         5706         6280         13491           Karnataka         1880033         153883         145103         8780         162648         20966         20967         8764           Kerala         945755         77152         72665         4486         109091         18921         20614         31939           Madhya Pradesh         965307         85771         73449         12322         123833         15875         15279         38062           Maharashtra         3197657         274977         253587         21391         27231         38728         30337  | Bihar                 | 648556   | 44167   | 39406   | 4761   | 111777  | 11796  | 20119   | 67611                          |
| Gujarat         1633455         134196         113732         20464         123010         23660         16811         -11186           Haryana         882354         75182         65285         9897         78482         18290         9810         3300           Himachal Pradesh         194550         13500         11272         2228         31764         4917         7260         18264           Jharkhand         367828         30403         19958         10446         43894         5706         6280         13491           Karmataka         1880033         153883         145103         8780         162648         20966         20967         8764           Kerala         945755         77152         72665         4486         109091         18921         20614         31939           Madhya Pradesh         965307         85771         73449         12322         12383         15875         15279         38062           Maharashtra         3197657         274977         253587         21391         272231         38728         30337         -2746           Manipur         34585         1448         1214         233         10411         721         1807 <td>Chhattisgarh</td> <td>384853</td> <td>40262</td> <td>31784</td> <td>8477</td> <td>50330</td> <td>5169</td> <td>5374</td> <td>10068</td>   | Chhattisgarh          | 384853   | 40262   | 31784   | 8477   | 50330   | 5169   | 5374    | 10068                          |
| Haryana  | Goa                   | 95044    | 9494    | 7651    | 1843   | 11162   | 1664   | 1500    | 1668                           |
| Himachal Pradesh   194550   13500   11272   2228   31764   4917   7260   18264   Jharkhand   367828   30403   19958   10446   43894   5706   6280   13491   Karnataka   1880033   153883   145103   8780   162648   20966   20967   8764   Kerala   945755   77152   72665   4486   109091   18921   20614   31939   Madhya Pradesh   965307   85771   73449   12322   123833   15875   15279   38062   Maharashtra   3197657   274977   253587   21391   272231   38728   30337   -27466   Manipur   34585   1448   1214   233   10411   721   1807   8964   Meghalaya   38394   2711   2238   473   9744   819   932   7033   Mizoram   26716   1114   868   246   6864   395   1160   5750   7500      | Gujarat               | 1633455  | 134196  | 113732  | 20464  | 123010  | 23660  | 16811   | -11186                         |
| Jharkhand         367828         30403         19958         10446         43894         5706         6280         13491           Karnataka         1880033         153883         145103         8780         162648         20966         20967         8764           Kerala         945755         77152         72665         4486         109091         18921         20614         31939           Madhya Pradesh         965307         85771         73449         12322         123833         15875         15279         38062           Maharashtra         3197657         274977         253587         21391         272231         38728         30337         -2746           Manipur         34585         1448         1214         223         10411         721         1807         8964           Meghalaya         38394         2711         2238         473         9744         819         932         7033           Mizoram         26716         1114         868         246         6864         395         1160         5750           Nagaland         32892         1290         954         336         10107         943         2189         8817  | Haryana               | 882354   | 75182   | 65285   | 9897   | 78482   | 18290  | 9810    | 3300                           |
| Karnataka         1880033         153883         145103         8780         162648         20966         20967         8764           Kerala         945755         77152         72665         4486         109091         18921         20614         31939           Madhya Pradesh         965307         85771         73449         12322         123833         15875         15279         38062           Maharashtra         3197657         274977         253587         21391         272231         38728         30337         -2746           Manipur         34585         1448         1214         233         10411         721         1807         8964           Meghalaya         38394         2711         2238         473         9744         819         932         7033           Mizoram         26716         1114         868         246         6864         395         1160         5750           Nagaland         32892         1290         954         336         10107         943         2189         8817           Odisha         586647         55971         44686         11286         75697         7150         14530         19726  | Himachal Pradesh      | 194550   | 13500   | 11272   | 2228   | 31764   | 4917   | 7260    | 18264                          |
| Kerala         945755         77152         72665         4486         109091         18921         20614         31939           Madhya Pradesh         965307         85771         73449         12322         123833         15875         15279         38062           Maharashtra         3197657         274977         253587         21391         272231         38728         30337         -2746           Manipur         34585         1448         1214         233         10411         721         1807         8964           Meghalaya         38394         2711         2238         473         9744         819         932         7033           Mizoram         26716         1114         868         246         6864         395         1160         5750           Nagaland         32892         1290         954         336         10107         943         2189         8817           Odisha         586647         55971         44686         11286         75697         7150         14530         19726           Punjab         641096         54734         51020         3714         77684         18878         11854         22950  | Jharkhand             | 367828   | 30403   | 19958   | 10446  | 43894   | 5706   | 6280    | 13491                          |
| Madhya Pradesh         965307         85771         73449         12322         123833         15875         15279         38062           Maharashtra         3197657         274977         253587         21391         272231         38728         30337         -2746           Manipur         34585         1448         1214         233         10411         721         1807         8964           Meghalaya         38394         2711         2238         473         9744         819         932         7033           Mizoram         26716         1114         868         246         6864         395         1160         5750           Nagaland         32892         1290         954         336         10107         943         2189         8817           Odisha         586647         55971         44686         11286         75697         7150         14530         19726           Punjab         641096         54734         51020         3714         77684         18878         11854         22950           Rajasthan         1128180         99750         80422         19327         139430         25256         24612         39681   | Karnataka             | 1880033  | 153883  | 145103  | 8780   | 162648  | 20966  | 20967   | 8764                           |
| Maharashtra         3197657         274977         253587         21391         272231         38728         30337         -2746           Manipur         34585         1448         1214         233         10411         721         1807         8964           Meghalaya         38394         2711         2238         473         9744         819         932         7033           Mizoram         26716         1114         868         246         6864         395         1160         5750           Nagaland         32892         1290         954         336         10107         943         2189         8817           Odisha         586647         55971         44686         11286         75697         7150         14530         19726           Punjab         641096         54734         51020         3714         77684         18878         11854         22950           Rajasthan         1128180         99750         80422         19327         139430         25256         24612         39681           Sikkim         33596         1591         1053         537         5356         591         1293         3766           Tam  | Kerala                | 945755   | 77152   | 72665   | 4486   | 109091  | 18921  | 20614   | 31939                          |
| Manipur         34585         1448         1214         233         10411         721         1807         8964           Meghalaya         38394         2711         2238         473         9744         819         932         7033           Mizoram         26716         1114         868         246         6864         395         1160         5750           Nagaland         32892         1290         954         336         10107         943         2189         8817           Odisha         586647         55971         44686         11286         75697         7150         14530         19726           Punjab         641096         54734         51020         3714         77684         18878         11854         22950           Rajasthan         1128180         99750         80422         19327         139430         25256         24612         39681           Sikkim         33596         1591         1053         537         5356         591         1293         3766           Tamil Nadu         1987311         157163         142588         14575         197012         35707         35311         39848           Tela  | Madhya Pradesh        | 965307   | 85771   | 73449   | 12322  | 123833  | 15875  | 15279   | 38062                          |
| Meghalaya         38394         2711         2238         473         9744         819         932         7033           Mizoram         26716         1114         868         246         6864         395         1160         5750           Nagaland         32892         1290         954         336         10107         943         2189         8817           Odisha         586647         55971         44686         11286         75697         7150         14530         19726           Punjab         641096         54734         51020         3714         77684         18878         11854         22950           Rajasthan         1128180         99750         80422         19327         139430         25256         24612         39681           Sikkim         33596         1591         1053         537         5356         591         1293         3766           Tamil Nadu         1987311         157163         142588         14575         197012         35707         35311         39848           Telangana         1026948         97856         87129         10728         90122         16032         11263         -7735   | Maharashtra           | 3197657  | 274977  | 253587  | 21391  | 272231  | 38728  | 30337   | -2746                          |
| Mizoram         26716         1114         868         246         6864         395         1160         5750           Nagaland         32892         1290         954         336         10107         943         2189         8817           Odisha         586647         55971         44686         11286         75697         7150         14530         19726           Punjab         641096         54734         51020         3714         77684         18878         11854         22950           Rajasthan         1128180         99750         80422         19327         139430         25256         24612         39681           Sikkim         33596         1591         1053         537         5356         591         1293         3766           Tamil Nadu         1987311         157163         142588         14575         197012         35707         35311         39848           Telangana         1026948         97856         87129         10728         90122         16032         11263         -7735           Tripura         61358         3129         2435         694         12428         1089         2497         9299  | Manipur               | 34585    | 1448    | 1214    | 233    | 10411   | 721    | 1807    | 8964                           |
| Nagaland         32892         1290         954         336         10107         943         2189         8817           Odisha         586647         55971         44686         11286         75697         7150         14530         19726           Punjab         641096         54734         51020         3714         77684         18878         11854         22950           Rajasthan         1128180         99750         80422         19327         139430         25256         24612         39681           Sikkim         33596         1591         1053         537         5356         591         1293         3766           Tamil Nadu         1987311         157163         142588         14575         197012         35707         35311         39848           Telangana         1026948         97856         87129         10728         90122         16032         11263         -7735           Tripura         61358         3129         2435         694         12428         1089         2497         9299           Uttar Pradesh         1985110         171792         151941         19851         287124         38911         57916         115332  | Meghalaya             | 38394    | 2711    | 2238    | 473    | 9744    | 819    | 932     | 7033                           |
| Odisha         586647         55971         44686         11286         75697         7150         14530         19726           Punjab         641096         54734         51020         3714         77684         18878         11854         22950           Rajasthan         1128180         99750         80422         19327         139430         25256         24612         39681           Sikkim         33596         1591         1053         537         5356         591         1293         3766           Tamil Nadu         1987311         157163         142588         14575         197012         35707         35311         39848           Telangana         1026948         97856         87129         10728         90122         16032         11263         -7735           Tripura         61358         3129         2435         694         12428         1089         2497         9299           Uttar Pradesh         1985110         171792         151941         19851         287124         38911         57916         115332           Uttarakhand         294266         18718         16762         1956         33235         5865         6478         1  | Mizoram               | 26716    | 1114    | 868     | 246    | 6864    | 395    | 1160    | 5750                           |
| Punjab         641096         54734         51020         3714         77684         18878         11854         22950           Rajasthan         1128180         99750         80422         19327         139430         25256         24612         39681           Sikkim         33596         1591         1053         537         5356         591         1293         3766           Tamil Nadu         1987311         157163         142588         14575         197012         35707         35311         39848           Telangana         1026948         97856         87129         10728         90122         16032         11263         -7735           Tripura         61358         3129         2435         694         12428         1089         2497         9299           Uttar Pradesh         1985110         171792         151941         19851         287124         38911         57916         115332           Uttarakhand         294266         18718         16762         1956         33235         5865         6478         14517           West Bengal         1291527         85537         81409         4128         154850         33585         17338   | Nagaland              | 32892    | 1290    | 954     | 336    | 10107   | 943    | 2189    | 8817                           |
| Rajasthan         1128180         99750         80422         19327         139430         25256         24612         39681           Sikkim         33596         1591         1053         537         5356         591         1293         3766           Tamil Nadu         1987311         157163         142588         14575         197012         35707         35311         39848           Telangana         1026948         97856         87129         10728         90122         16032         11263         -7735           Tripura         61358         3129         2435         694         12428         1089         2497         9299           Uttar Pradesh         1985110         171792         151941         19851         287124         38911         57916         115332           Uttarakhand         294266         18718         16762         1956         33235         5865         6478         14517           West Bengal         1291527         85537         81409         4128         154850         33585         17338         69314           All States         21859056         1802696         1598462         204234         2423783         376566         37   | Odisha                | 586647   | 55971   | 44686   | 11286  | 75697   | 7150   | 14530   | 19726                          |
| Sikkim         33596         1591         1053         537         5356         591         1293         3766           Tamil Nadu         1987311         157163         142588         14575         197012         35707         35311         39848           Telangana         1026948         97856         87129         10728         90122         16032         11263         -7735           Tripura         61358         3129         2435         694         12428         1089         2497         9299           Uttar Pradesh         1985110         171792         151941         19851         287124         38911         57916         115332           Uttarakhand         294266         18718         16762         1956         33235         5865         6478         14517           West Bengal         1291527         85537         81409         4128         154850         33585         17338         69314           All States         21859056         1802696         1598462         204234         2423783         376566         370028         642753#           General States         20731317         1730955         1539213         191742         2232095         355262 <td>Punjab</td> <td>641096</td> <td>54734</td> <td>51020</td> <td>3714</td> <td>77684</td> <td>18878</td> <td>11854</td> <td>22950</td>  | Punjab                | 641096   | 54734   | 51020   | 3714   | 77684   | 18878  | 11854   | 22950                          |
| Tamil Nadu         1987311         157163         142588         14575         197012         35707         35311         39848           Telangana         1026948         97856         87129         10728         90122         16032         11263         -7735           Tripura         61358         3129         2435         694         12428         1089         2497         9299           Uttar Pradesh         1985110         171792         151941         19851         287124         38911         57916         115332           Uttarakhand         294266         18718         16762         1956         33235         5865         6478         14517           West Bengal         1291527         85537         81409         4128         154850         33585         17338         69314           All States         21859056         1802696         1598462         204234         2423783         376566         370028         642753*           General States         20731317         1730955         1539213         191742         2232095         355262         335593         522806*           NE & HS         1127740         71741         59249         12492         191688  | Rajasthan             | 1128180  | 99750   | 80422   | 19327  | 139430  | 25256  | 24612   | 39681                          |
| Telangana 1026948 97856 87129 10728 90122 16032 11263 -7735 Tripura 61358 3129 2435 694 12428 1089 2497 9299 Uttar Pradesh 1985110 171792 151941 19851 287124 38911 57916 115332 Uttarakhand 294266 18718 16762 1956 33235 5865 6478 14517 West Bengal 1291527 85537 81409 4128 154850 33585 17338 69314 All States 21859056 1802696 1598462 204234 2423783 376566 370028 642753# General States 20731317 1730955 1539213 191742 2232095 355262 335593 522806# NE & HS 1127740 71741 59249 12492 191688 21304 34434 119947#  Growth (%) in 2020-21 over 2019-20  All States 11.0 12.6 12.8 11.0 9.4 9.5 9.0 2.7 General States 11.1 12.6 12.8 11.0 9.5 9.6 9.0 1.8   | Sikkim                | 33596    | 1591    | 1053    | 537    | 5356    | 591    | 1293    | 3766                           |
| Tripura         61358         3129         2435         694         12428         1089         2497         9299           Uttar Pradesh         1985110         171792         151941         19851         287124         38911         57916         115332           Uttarakhand         294266         18718         16762         1956         33235         5865         6478         14517           West Bengal         1291527         85537         81409         4128         154850         33585         17338         69314           All States         21859056         1802696         1598462         204234         2423783         376566         370028         642753#           General States         20731317         1730955         1539213         191742         2232095         355262         335593         522806#           NE & HS         1127740         71741         59249         12492         191688         21304         34434         119947#           General States         11.0         12.6         12.8         11.0         9.4         9.5         9.0         2.7           General States         11.1         12.6         12.8         11.0         9.5         9.6 <td>Tamil Nadu</td> <td>1987311</td> <td>157163</td> <td>142588</td> <td>14575</td> <td>197012</td> <td>35707</td> <td>35311</td> <td>39848</td>   | Tamil Nadu            | 1987311  | 157163  | 142588  | 14575  | 197012  | 35707  | 35311   | 39848                          |
| Uttar Pradesh         1985110         171792         151941         19851         287124         38911         57916         115332           Uttarakhand         294266         18718         16762         1956         33235         5865         6478         14517           West Bengal         1291527         85537         81409         4128         154850         33585         17338         69314           All States         21859056         1802696         1598462         204234         2423783         376566         370028         642753*           General States         20731317         1730955         1539213         191742         2232095         355262         335593         522806*           NE & HS         1127740         71741         59249         12492         191688         21304         34434         119947*           Growth (%) in 2020-21 over 2019-20           All States         11.0         12.6         12.8         11.0         9.4         9.5         9.0         2.7           General States         11.1         12.6         12.8         11.0         9.5         9.6         9.0         1.8  | Telangana             | 1026948  | 97856   | 87129   | 10728  | 90122   | 16032  | 11263   | -7735                          |
| Uttarakhand         294266         18718         16762         1956         33235         5865         6478         14517           West Bengal         1291527         85537         81409         4128         154850         33585         17338         69314           All States         21859056         1802696         1598462         204234         2423783         376566         370028         642753*           General States         20731317         1730955         1539213         191742         2232095         355262         335593         522806*           NE & HS         1127740         71741         59249         12492         191688         21304         34434         119947*           Growth (%) in 2020-21 over 2019-20           All States         11.0         12.6         12.8         11.0         9.4         9.5         9.0         2.7           General States         11.1         12.6         12.8         11.0         9.5         9.6         9.0         1.8  | Tripura               | 61358    | 3129    | 2435    | 694    | 12428   | 1089   | 2497    | 9299                           |
| West Bengal         1291527         85537         81409         4128         154850         33585         17338         69314           All States         21859056         1802696         1598462         204234         2423783         376566         370028         642753#           General States         20731317         1730955         1539213         191742         2232095         355262         335593         522806#           NE & HS         1127740         71741         59249         12492         191688         21304         34434         119947#           Growth (%) in 2020-21 over 2019-20           All States         11.0         12.6         12.8         11.0         9.4         9.5         9.0         2.7           General States         11.1         12.6         12.8         11.0         9.5         9.6         9.0         1.8  | Uttar Pradesh         | 1985110  | 171792  | 151941  | 19851  | 287124  | 38911  | 57916   | 115332                         |
| All States       21859056       1802696       1598462       204234       2423783       376566       370028       642753#         General States       20731317       1730955       1539213       191742       2232095       355262       335593       522806#         NE & HS       1127740       71741       59249       12492       191688       21304       34434       119947#         Growth (%) in 2020-21 over 2019-20         All States       11.0       12.6       12.8       11.0       9.4       9.5       9.0       2.7         General States       11.1       12.6       12.8       11.0       9.5       9.6       9.0       1.8  | Uttarakhand           | 294266   | 18718   | 16762   | 1956   | 33235   | 5865   | 6478    | 14517                          |
| General States         20731317         1730955         1539213         191742         2232095         355262         335593         522806#           NE & HS         1127740         71741         59249         12492         191688         21304         34434         119947#           Growth (%) in 2020-21 over 2019-20           All States         11.0         12.6         12.8         11.0         9.4         9.5         9.0         2.7           General States         11.1         12.6         12.8         11.0         9.5         9.6         9.0         1.8   | West Bengal           | 1291527  | 85537   | 81409   | 4128   | 154850  | 33585  | 17338   | 69314                          |
| NE & HS         1127740         71741         59249         12492         191688         21304         34434         119947#           Growth (%) in 2020-21 over 2019-20           All States         11.0         12.6         12.8         11.0         9.4         9.5         9.0         2.7           General States         11.1         12.6         12.8         11.0         9.5         9.6         9.0         1.8  | All States            | 21859056 | 1802696 | 1598462 | 204234 | 2423783 | 376566 | 370028  | 642753#                        |
| Growth (%) in 2020-21 over 2019-20       All States     11.0     12.6     12.8     11.0     9.4     9.5     9.0     2.7       General States     11.1     12.6     12.8     11.0     9.5     9.6     9.0     1.8   | <b>General States</b> | 20731317 | 1730955 |         | 191742 |         | 355262 | 335593  | 522806#                        |
| All States 11.0 12.6 12.8 11.0 9.4 9.5 9.0 2.7 General States 11.1 12.6 12.8 11.0 9.5 9.6 9.0 1.8  | NE & HS               |          |         |         |        |         |        | 34434   | 119947#                        |
| General States 11.1 12.6 12.8 11.0 9.5 9.6 9.0 1.8   |                       |          |         |         |        |         |        |         |                                |
|  |                       |          |         |         |        |         |        |         |                                |
| NE & HS 10.6 11.9 12.2 10.6 8.6 9.4 9.0 6.8  |                       |          |         |         |        |         |        |         |                                |
|  | NE & HS               | 10.6     | 11.9    | 12.2    | 10.6   | 8.6     | 9.4    | 9.0     | 6.8                            |

### Note:

(i) GSDP: Gross State Domestic Product

(ii) ORR: Own Revenue Receipts

(iii)OTR: Own Tax Revenue

(iv) ONTR: Own Non Tax Revenue

(v) TRE: Total Revenue Expenditure

(vi) IP: Interest Payment

(vii) PDR: Pre  $\,$  -Devolution Revenue Deficit (+)/Surplus (-)

#: Summation takes into account only deficits and not surpluses

Totals may not add up due to rounding off.

Annex 3.1 (Para 3.20, 3.29)

Population and Demographic Performance

|                   |  | Population                                    | Demograph                                    |                   |                          | Performanc | · A                    |
|-------------------|--|---|--|-------------------|--------------------------|------------|------------------------|
| State             | Population<br>(Census<br>2011)<br>in Million | Inter se<br>share -<br>Population<br>2011 (%) | Population<br>(Census<br>1971)<br>in Million | TFR (Census-2011) | Reciprocal<br>of TFR (f) | f*Pop1971  | Inter se<br>Share<br>% |
| Andhra Pradesh    | 49.577103                                    | 4.208   | 27.685000                                    | 1.60              | 0.63                     | 17.303     | 6.635                  |
| Arunachal Pradesh | 1.383727                                     | 0.117   | 0.467511                                     | 2.24              | 0.45                     | 0.209      | 0.080                  |
| Assam             | 31.205576                                    | 2.649   | 14.625152                                    | 2.16              | 0.46                     | 6.770      | 2.596                  |
| Bihar             | 104.099452                                   | 8.836   | 42.126236                                    | 2.93              | 0.34                     | 14.358     | 5.513                  |
| Chhattisgarh      | 25.545198                                    | 2.168   | 11.637494                                    | 2.43              | 0.41                     | 4.785      | 1.836                  |
| Goa               | 1.458545                                     | 0.124   | 0.795120                                     | 1.56              | 0.64                     | 0.510      | 0.195                  |
| Gujarat           | 60.439692                                    | 5.130   | 26.697475                                    | 2.03              | 0.49                     | 13.182     | 5.043                  |
| Haryana           | 25.351462                                    | 2.152   | 10.036431                                    | 2.32              | 0.43                     | 4.331      | 1.659                  |
| Himachal Pradesh  | 6.864602                                     | 0.583   | 3.460434                                     | 1.74              | 0.57                     | 1.989      | 0.763                  |
| Jharkhand         | 32.988134                                    | 2.800   | 14.227133                                    | 2.61              | 0.38                     | 5.443      | 2.090                  |
| Karnataka         | 61.095297                                    | 5.186   | 29.299014                                    | 1.81              | 0.55                     | 16.195     | 6.207                  |
| Kerala            | 33.406061                                    | 2.835   | 21.347375                                    | 1.79              | 0.56                     | 11.957     | 4.573                  |
| Madhya Pradesh    | 72.626809                                    | 6.164   | 30.016625                                    | 2.63              | 0.38                     | 11.432     | 4.376                  |
| Maharashtra       | 112.374333                                   | 9.538   | 50.412235                                    | 1.91              | 0.52                     | 26.388     | 10.120                 |
| Manipur           | 2.85 5794                                    | 0.242   | 1.072753                                     | 1.86              | 0.54                     | 0.577      | 0.221                  |
| Meghalaya         | 2.966889                                     | 0.252   | 1.011699                                     | 3.63              | 0.28                     | 0.279      | 0.107                  |
| Mizoram           | 1.097206                                     | 0.093   | 0.332390                                     | 2.56              | 0.39                     | 0.130      | 0.050                  |
| Nagaland          | 1.978502                                     | 0.168   | 0.516449                                     | 2.08              | 0.48                     | 0.248      | 0.095                  |
| Odisha            | 41.974218                                    | 3.563   | 21.944615                                    | 1.98              | 0.51                     | 11.102     | 4.250                  |
| Punjab            | 27.743338                                    | 2.355   | 13.551060                                    | 1.86              | 0.54                     | 7.280      | 2.793                  |
| Rajasthan         | 68.548437                                    | 5.818   | 25.765806                                    | 2.80              | 0.36                     | 9.192      | 3.528                  |
| Sikkim            | 0.610577                                     | 0.052   | 0.209843                                     | 1.44              | 0.69                     | 0.146      | 0.056                  |
| Tamil Nadu        | 72.147030                                    | 6.124   | 41.199168                                    | 1.58              | 0.63                     | 26.003     | 9.998                  |
| Telangana         | 35.003674                                    | 2.971   | 15.818000                                    | 1.67              | 0.60                     | 9.472      | 3.632                  |
| Tripura           | 3.673917                                     | 0.312   | 1.556342                                     | 1.73              | 0.58                     | 0.898      | 0.345                  |
| Uttar Pradesh     | 199.812341                                   | 16.959  | 83.848797                                    | 2.61              | 0.38                     | 32.157     | 12.318                 |
| Uttarakhand       | 10.086292                                    | 0.856   | 4.492724                                     | 2.13              | 0.47                     | 2.114      | 0.809                  |
| West Bengal       | 91.276115                                    | 7.747   | 44.312011                                    | 1.68              | 0.60                     | 26.412     | 10.113                 |
| All States        | 1178.192467                                  | 100   | 538.46489                                    | 2 2.17            |                          | 260.861    | 100                    |

Source: Census 2011, Registrar General of India

Note: numbers shown in the Annex are displayed at certain decimal digits for the ease of reading. However, entire number has been used for calculation purposes.

Chapter 3 : Annex

Annex 3.2 (para 3.21)

Area

| State             | Category | Area ('000 Sq<br>Km) | Area- Inter<br>se shares<br>(%) | Adjusted Area-<br>Inter se shares<br>(%) |
|-------------------|----------|----------------------|---------------------------------|--|
| Andhra Pradesh    |          | 162.923              | 5.334                           | 4.572                                    |
| Arunachal Pradesh |          | 83.743               | 2.742                           | 2.350                                    |
| Assam             |          | 78.438               | 2.568                           | 2.201                                    |
| Bihar             |          | 94.163               | 3.083                           | 2.643                                    |
| Chhattisgarh      |          | 135.192              | 4.426                           | 3.794                                    |
| Goa               | Small    | 3.702                | 0.121                           | 2.000                                    |
| Gujarat           |          | 196.244              | 6.425                           | 5.508                                    |
| Haryana           | Small    | 44.212               | 1.448                           | 2.000                                    |
| Himachal Pradesh  | Small    | 55.673               | 1.823                           | 2.000                                    |
| Jharkhand         |          | 79.716               | 2.610                           | 2.237                                    |
| Karnataka         |          | 191.791              | 6.279                           | 5.383                                    |
| Kerala            | Small    | 38.852               | 1.272                           | 2.000                                    |
| Madhya Pradesh    |          | 308.252              | 10.093                          | 8.651                                    |
| Maharashtra       |          | 307.713              | 10.075                          | 8.636                                    |
| Manipur           | Small    | 22.327               | 0.731                           | 2.000                                    |
| Meghalaya         | Small    | 22.429               | 0.734                           | 2.000                                    |
| Mizoram           | Small    | 21.081               | 0.690                           | 2.000                                    |
| Nagaland          | Small    | 16.579               | 0.543                           | 2.000                                    |
| Odisha            |          | 155.707              | 5.098                           | 4.370                                    |
| Punjab            | Small    | 50.362               | 1.649                           | 2.000                                    |
| Rajasthan         |          | 342.239              | 11.205                          | 9.605                                    |
| Sikkim            | Small    | 7.096                | 0.232                           | 2.000                                    |
| Tamil Nadu        |          | 130.060              | 4.258                           | 3.650                                    |
| Telangana         |          | 112.122              | 3.671                           | 3.147                                    |
| Tripura           | Small    | 10.486               | 0.343                           | 2.000                                    |
| Uttar Pradesh     |          | 240.928              | 7.888                           | 6.762                                    |
| Uttarakhand       | Small    | 53.483               | 1.751                           | 2.000                                    |
| West Bengal       |          | 88.752               | 2.906                           | 2.491                                    |
| All States        |          | 3054.265             | 100                             | 100                                      |

Source: Survey of India

Annex 3.3 (para 3.24)

**Forest and Ecology** 

|                   |            |             | 00                |                  |              |                      |
|-------------------|------------|-------------|-------------------|------------------|--------------|----------------------|
|                   | Geographic | Very Dense  | Moderately        | Open Forest (OF) | Dense Forest | Forest and ecology   |
| State             | Area       | Forest (VD) | Dense Forest (MD) |                  | (VD+MD)      | Inter se share (FCi) |
|                   | (Sq. km)   |             |                   |                  |              | (%)                  |
| Andhra Pradesh    | 162923     | 1957        | 14051             | 12139            | 16008        | 4.134                |
| Arunachal Pradesh | 83743      | 20721       | 30955             | 15288            | 51676        | 13.344               |
| Assam             | 78438      | 2797        | 10192             | 15116            | 12989        | 3.354                |
| Bihar             | 94163      | 332         | 3260              | 3707             | 3592         | 0.928                |
| Chhattisgarh      | 135192     | 7064        | 32215             | 16268            | 39279        | 10.143               |
| Goa               | 3702       | 538         | 276               | 1115             | 1114         | 0.288                |
| Gujarat           | 196244     | 378         | 5200              | 9179             | 5578         | 1.440                |
| Haryana           | 44212      | 28          | 452               | 1108             | 480          | 0.124                |
| Himachal Pradesh  | 55673      | 3110        | 9029              | 5285             | 9815         | 2.534                |
| Jharkhand         | 79716      | 2598        | 9896              | 11269            | 12284        | 3.172                |
| Karnataka         | 191791     | 4502        | 20444             | 12604            | 24946        | 6.442                |
| Kerala            | 38852      | 1663        | 9407              | 9251             | 11070        | 2.859                |
| Madhya Pradesh    | 308252     | 6563        | 34571             | 36280            | 41134        | 10.622               |
| Maharashtra       | 307713     | 8736        | 20652             | 21294            | 29388        | 7.589                |
| Manipur           | 22327      | 806         | 6510              | 9928             | 7418         | 1.916                |
| Meghalaya         | 22429      | 453         | 9386              | 7307             | 9839         | 2.541                |
| Mizoram           | 21081      | 131         | 5861              | 12194            | 5992         | 1.547                |
| Nagaland          | 16579      | 1279        | 4587              | 6623             | 9985         | 1.515                |
| Odisha            | 155707     | 1969        | 21370             | 23008            | 28337        | 7.317                |
| Punjab            | 50362      | 8           | 908               | 1023             | 814          | 0.210                |
| Rajasthan         | 342239     | 78          | 4340              | 12154            | 4418         | 1.141                |
| Sikkim            | 9602       | 1081        | 1575              | 889              | 2656         | 0.686                |
| Tamil Nadu        | 130060     | 3672        | 10979             | 11630            | 14651        | 3.783                |
| Telangana         | 112122     | 1596        | 8738              | 10085            | 10334        | 2.668                |
| Tripura           | 10486      | 959         | 5246              | 1824             | 5902         | 1.524                |
| Uttar Pradesh     | 240928     | 2617        | 4069              | 7993             | 9899         | 1.726                |
| Uttarakhand       | 53483      | 4969        | 12884             | 6442             | 17853        | 4.610                |
| West Bengal       | 88752      | 2994        | 4147              | 90/6             | 7141         | 1.844                |
| All States        | 3054265    | 88396       | 298864            | 290508           | 387260       | 100                  |
|                   |            |             |                   |                  |              |                      |

Source: State of Forest Report (2017), Forest Survey of India

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|                   |             |                             |             |             | Inco                        | ncome Distance |             |                       |             |              |    |                      |                          |                   |
|-------------------|-------------|-----------------------------|-------------|-------------|-----------------------------|----------------|-------------|-----------------------|-------------|--------------|----|----------------------|--------------------------|-------------------|
|                   | Compan      | Comparable GSDP (Rs. Crore) | Rs. Crore)  | Estima      | <b>Estimated Population</b> |                |             | Per Capita GSDP (Rs.) | GSDP (      | Rs.)         |    |                      |                          |                   |
| State             | 2015-<br>16 | 2016-<br>17                 | 2017-<br>18 | 2015-<br>16 | 2016-                       | 2017-<br>18    | 2015-<br>16 | 2016-                 | 2017-<br>18 | Average Rank |    | Adjusted<br>Distance | di* POP <sub>i2011</sub> | Inter Se<br>Share |
| Andhra Pradesh    | 591670      | 686562                      | 783192      | 50446000    | 50743000                    | 51041000       | 117288      | 135302                | 153444      | 135344       | 14 | 68871                | 3414439                  | 3.203             |
| Arunachal Pradesh | 18506       | 19625                       | 22017       | 1516000     | 1547000                     | 1579000        | 122074      | 126859                | 139437      | 129457       | 15 | 74759                | 103446                   | 0.097             |
| Assam             | 228508      | 248959                      | 282440      | 33101000    | 33529000                    | 33905000       | 69034       | 74252                 | 83303       | 75530        | 24 | 128686               | 4015725                  | 3.767             |
| Bihar             | 369771      | 417155                      | 477669      | 111867000   | 113638000                   | 115437037      | 33055       | 36709                 | 41379       | 37048        | 28 | 167168               | 17402112                 | 16.324            |
| Chhattisgarh      | 217172      | 261006                      | 287843      | 27490000    | 27933000                    | 28384000       | 79000       | 93440                 | 101410      | 91284        | 19 | 112932               | 2884874                  | 2.706             |
| Goa               | 55050       | 64418                       | 70254       | 1505000     | 1516000                     | 1526000        | 365784      | 424922                | 460383      | 417030       |    | 17543                | 25587                    | 0.024             |
| Gujarat           | 1003904     | 1089874                     | 1203058     | 64199000    | 65049000                    | 65911000       | 156374      | 167547                | 182528      | 168816       | =  | 35400                | 2139550                  | 2.007             |
| Haryana           | 489991      | 553192                      | 638852      | 27040000    | 27423000                    | 27811000       | 181210      | 201725                | 229712      | 204216       | co | 17543                | 444738                   | 0.417             |
| Himachal Pradesh  | 125823      | 131803                      | 146305      | 7147000     | 7210000                     | 7273000        | 176050      | 182806                | 201162      | 186673       | 4  | 17543                | 120425                   | 0.113             |
| Jharkhand         | 206613      | 236250                      | 276111      | 35538000    | 36121000                    | 36712000       | 58139       | 65405                 | 75210       | 66251        | 56 | 137965               | 4551193                  | 4.269             |
| Karnataka         | 1045183     | 1209146                     | 1350268     | 64201000    | 64900000                    | 00090959       | 162798      | 186309                | 205815      | 184974       | 5  | 19242                | 1175574                  | 1.103             |
| Kerala            | 561491      | 634571                      | 620669      | 34152500    | 34322100                    | 34493200       | 164407      | 184887                | 202672      | 183989       | 9  | 20227                | 675710                   | 0.634             |
| Madhya Pradesh    | 533921      | 612729                      | 694546      | 77641000    | 78780000                    | 79936000       | 89289       | <i>TTTTT</i>          | 88898       | 77811        | 23 | 126405               | 9180378                  | 8.612             |
| Maharashtra       | 1943041     | 2163633                     | 2380798     | 118642000   | 120055000                   | 121485000      | 163773      | 180220                | 195975      | 179989       | ∞  | 24226                | 2722419                  | 2.554             |
| Manipur           | 20646       | 22824                       | 25821       | 3154900     | 3223900                     | 3294300        | 65442       | 70795                 | 78380       | 71539        | 25 | 132677               | 378925                   | 0.355             |
| Meghalaya         | 24340       | 26473                       | 29785       | 3271000     | 3341000                     | 3413000        | 74411       | 79235                 | 87269       | 80305        | 22 | 123911               | 367630                   | 0.345             |
| Mizoram           | 15197       | 16595                       | 18866       | 1192000     | 1214000                     | 1236000        | 127493      | 136697                | 152638      | 138943       | 13 | 65273                | 71618                    | 0.067             |
| Nagaland          | 19500       | 21708                       | 24534       | 2077000     | 2077000                     | 2099000        | 93883       | 104518                | 116886      | 105096       | 16 | 99120                | 196109                   | 0.184             |
| Odisha            | 325595      | 389249                      | 436390      | 43963000    | 44410000                    | 44861000       | 74061       | 87649                 | 97276       | 86329        | 21 | 117887               | 4948216                  | 4.642             |
| Punjab            | 390568      | 422157                      | 479058      | 29447900    | 29833500                    | 30224100       | 132630      | 141504                | 158502      | 144212       | 12 | 60004                | 1664701                  | 1.562             |
| Rajasthan         | 680727      | 751027                      | 831665      | 73204000    | 74260000                    | 75333000       | 92990       | 101135                | 110399      | 101508       | 17 | 102708               | 7040461                  | 6.604             |
| Sikkim            | 18128       | 20840                       | 24544       | 640000      | 647000                      | 000859         | 283250      | 322100                | 375868      | 327073       | 7  | 17543                | 10711                    | 0.01              |
| Tamil Nadu        | 1183220     | 1308573                     | 1467650     | 75269000    | 75968000                    | 76673000       | 157199      | 172253                | 191417      | 173623       | 10 | 30593                | 2207180                  | 2.07              |
| Telangana         | 584993      | 651651                      | 748232      | 37134000    | 37505000                    | 37881000       | 157536      | 173751                | 197522      | 176269       | 6  | 27947                | 978230                   | 0.918             |
| Tripura           | 35319       | 38754                       | 43639       | 3881000     | 3927000                     | 3975000        | 91006       | 28986                 | 109785      | 98856        | 18 | 104390               | 383519                   | 0.36              |
| Uttar Pradesh     | 1147695     | 1290777                     | 1451557     | 214225000   | 217505000                   | 220836000      | 53574       | 59345                 | 65730       | 59550        | 27 | 144666               | 28906065                 | 27.116            |
| Uttarakhand       | 176809      | 194173                      | 222100      | 10724000    | 10869000                    | 11016000       | 164872      | 178648                | 201616      | 181712       | 7  | 22504                | 226980                   | 0.213             |
| West Bengal       | 795450      | 869110                      | 960730      | 95535000    | 96491000                    | 97456000       | 83263       | 90072                 | 98581       | 86906        | 70 | 113577               | 10366897                 | 9.725             |
| All States        | 12808830    | 14352836                    | 16077006    | 1248203300  | 1264037500                  | 1280049637     | 102618      | 113548                | 125597      | 113921       |    |                      | 106603413                | 100               |
|                   |             |                             |             |             |                             |                |             |                       |             |              |    |                      |                          |                   |

Source: Comparable GSDP and estimated population from National Statistical Office, Ministry of Statistics & Program Implementation

Fifteenth Finance Commission

Annex 3.5 (para 3.31)

2.087 0.473 2.297 5.792 2.988 7.152 9.455 0.100 0.168 0.034 0.058 3.509 2.495 5.529 0.026 6.513 3.250 0.187 4.393 5.000 1.75 3.348 0.36 4.414 2.278 7.206 0.076 0.128 0.026 0.044 2.674 1.902 4.214 4.964 0.542 3.811 5.451 0.02 2.477 t\*P Pop 2011 (P) (in million) 2.97 25.35 98.9 32.99 33.41 72.63 12.37 2.86 41.97 27.74 68.55 72.15 31.21 104.1 60.44 61.1 1.1 1.98 0.61 6.15 6.27 5.25 5.31 7.22 6.41 2.66 4.32 2.35 2.21 6.37 98.9 88.9 6.31 7.51 3.21 62013 69143 74917 126316 77570 67225 84700 181770 174740 64246 98599 132070 93104 157714 155914 Average 33522 370154 155135 65641 65657 96091 87038 118628 283122 65405 04518 87649 135302 93440 167547 201725 182806 608981 184887 180220 70795 79235 136697 141504 101135 322100 172253 28986 **TTTTT** 173751 181210 58139 163773 65442 74411 93883 132630 283250 176050 162798 127493 92990 157199 157536 91006 164872 2015-16 79000 156374 164407 89289 74061 117288 **Fax Effort** 89872 71000 122075 244016 150465 71106 114759 85188 141485 162373 165363 62494 143630 60884 52930 60734 143690 136455 2014-15 103293 3238 2135 9054 11404 9172 11867 11358 5189 0622 1746 2974 4942 5723 9092 Average 9782 3291 0851 8011 9907 12408 9763 3682 12782 12288 5610 11379 1820 3550 3639 2459 5146 9301 5975 9800 11313 4712 2907 3621 Per Capita Own Tax Revenue (Rs.) 2015-16 9369 3230 11768 11418 5179 1745 3007 2056 5124 5835 8856 7911 3529 26414 9759 11438 3231 9064 10765 10671 10692 2014-15 7416 3108 9814 2276 4556 5359 10365 8385 2960 11050 10367 4779 1674 2933 8797 8334 0547 9681 1891 Arunachal Pradesh Himachal Pradesh Andhra Pradesh Madhya Pradesh Uttar Pradesh Chhattisgarh Maharashtra Uttarakhand Famil Nadu Meghalaya Telangana Dharkhand Karnataka Rajasthan State Nagaland Mizoram Manipur Haryana Tripura Odisha Punjab Sikkim Gujarat Kerala Assam Goa

Source: For Own Tax Revenue- Finance Accounts of States for the concerned year, Estimated population from National Statistical Office, MoSPI

Annex 4.1

(Para 4.14)

### Sector-specific grants recommended for nutrition in 2020-21 by FC-XV

In the course of deliberations of the FC-XV with the Union and State Governments and various other stake-holders, it was evident that malnutrition among the children is one of the most challenging tasks in the country. Even in the recently announced 2019 Global Hunger Index, India ranks 102 out of 117 qualifying countries. The problem of malnutrition is inter-generational and is dependent on multiple factors which include optimal infant and young child feeding practices, immunization, institutional delivery, early childhood development, food fortification, deworming, access to safe drinking water and proper sanitation and dietary diversification. Adequate nutrition, beginning in the early stages of life, is crucial to ensure good physical and mental development and long-term health. Nutrition is both a maker and a marker of development. Improved nutrition is the new building block for progress in health, education, employment, empowerment of women and the reduction of poverty and inequality.

FC-XV is of the opinion that this issue needs to be addressed and a delay of even one year could adversely impact the future human capital of the country. The Commission has recommended a grant for addressing the problem of malnutrition for the year 2020-21 for which it has adopted the following approach.

The Ministry of Women and Child Development (MoWCD) has provided the Commission with data about the prevalence of malnutrition in states based on the NFHS–IV survey (2015-16). This state-wise data covers the key parameters of underweight (weight-for-age), stunting (height-for-age) and wasting (weight-for-height) for children under five years. The Ministry has also provided the Commission with state-wise data on the number of children (six to seventy-two months) and the number of pregnant women and lactating mothers registered in anganwadi centres as on 31 March 2019. The total registered beneficiaries in each of these above categories is 6.90 crore and 1.69 crore respectively. The Commission is of the view that any additionality to the Supplementary Nutrition Programme (SNP) should also cover the pregnant women and lactating mothers, which gives a total figure of 8.59 crore beneficiaries.

At present under the SNP, the cost norm for children in the six to seventy-two months' age bracket is Rs. 8 per day per child, for severely affected malnutrition children it is Rs. 12 per day per child and for pregnant women and lactating mothers it is Rs. 9.50 per day per woman. The MoWCD has informed the Commission that these cost norms were fixed in 2017, after the approval of the

### Fifteenth Finance Commission

Cabinet Committee on Economic Affairs (CCEA), but were less than the norms recommended by the Ministry. After taking into account cost indexation and the need for fortification, the Ministry has requested the Commission to provide an additional 50 per cent over the 2017 norms. The Commission has accordingly allocated an additional amount of Rs. 3 per day for all the children and pregnant women and lactating mothers registered in the anganwadi centres in all the States. This works out to a total grant of Rs. 7,735 crores to the States for the year 2020-21, which will supplement the existing expenditure of the States. The States will ensure that this grant will not be used as a substitute for the existing contribution of the States to the SNP. While making this recommendation, the FC-XV also expects the States to further supplement some additional amount per beneficiary so that the complete nutritional requirements of this very vulnerable group are more appropriately met. The State-wise allocation is given below. The MoWCD will issue detailed guidelines by February 2020 for the usage of this additional allocation by the States. The regular monitoring of outcomes should be clearly spelt out in these guidelines. Based upon feedback on implementation, this Commission shall suitably calibrate this grant for the balance period of our award period.

 $Grant\ for\ nutrition-financial\ year\ 2020-21$ 

|                   | Beneficiaries of Sup<br>the Anganwadi Service | oplementary Nutriti<br>es Scheme as on 31 l |                        |                                |
|-------------------|---|---|------------------------|--------------------------------|
| States            | Children<br>(6 months - 6<br>years)           | Pregnant<br>Women &<br>Lactating<br>Mothers | Total<br>Beneficiaries | Grant<br>Amount (Rs.<br>Crore) |
| Andhra Pradesh    | 2264402                                       | 654975                                      | 2919377                | 263                            |
| Arunachal Pradesh | 189060  | 24517                                       | 213577                 | 19                             |
| Assam             | 3030677                                       | 594296                                      | 3624973                | 326                            |
| Bihar             | 5969856                                       | 1404672                                     | 7374528                | 664                            |
| Chhattisgarh      | 2216000                                       | 493800                                      | 2709800                | 244                            |
| Goa               | 52996   | 14637                                       | 67633                  | 6                              |
| Gujarat           | 3104693                                       | 744902                                      | 3849595                | 346                            |
| Haryana           | 839339  | 263553                                      | 1102892                | 99                             |
| Himachal Pradesh  | 398112  | 96365                                       | 494477                 | 45                             |
| Jharkhand         | 2744555                                       | 718337                                      | 3462892                | 312                            |
| Karnataka         | 3948737                                       | 895465                                      | 4844202                | 436                            |
| Kerala            | 815494  | 304349                                      | 1119843                | 101                            |
| Madhya Pradesh    | 6571443                                       | 1426266                                     | 7997709                | 720                            |
| Maharashtra       | 5196154                                       | 961743                                      | 6157897                | 554                            |
| Manipur           | 340984  | 67208                                       | 408192                 | 37                             |
| Meghalaya         | 454119  | 73879                                       | 527998                 | 48                             |
| Mizoram           | 155222  | 28150                                       | 183372                 | 17                             |
| Nagaland          | 278810  | 34366                                       | 313176                 | 28                             |
| Odisha            | 3918422                                       | 725129                                      | 4643551                | 418                            |
| Punjab            | 671496  | 186289                                      | 857785                 | 77                             |
| Rajasthan         | 2667157                                       | 875613                                      | 3542770                | 319                            |
| Sikkim            | 24500   | 5800  | 30300                  | 3                              |
| Tamil Nadu        | 2440152                                       | 732488                                      | 3172640                | 286                            |
| Telangana         | 1500000                                       | 400000                                      | 1900000                | 171                            |
| Tripura           | 332353  | 69304                                       | 401657                 | 36                             |
| Uttar Pradesh     | 12392606                                      | 3548330                                     | 15940936               | 1435                           |
| Uttarakhand       | 597062  | 177003                                      | 774065                 | 70                             |
| West Bengal       | 5911318                                       | 1366355                                     | 7277673                | 655                            |
| All States        | 69025719                                      | 16887791                                    | 85913510               | 7735                           |

Source: Beneficiary data provided by Ministry of Women and Child Development

# **Annex 4.2** (Para 4.44)

# $\label{eq:Quality} \textbf{Quality outcome parameters for performance monitoring in education} \\ \textbf{for the award period of FC-XV}$

| S. No. | Indicator   | Weight (%) |
|--------|---|------------|
| 1      | Average language score in Class 3 - Government and aided schools                                | 10         |
| 2      | Average mathematics score in Class 3 - Government and aided schools                             | 10         |
| 3      | Average language score in Class 5 - Government and aided schools                                | 10         |
| 4      | Average mathematics score in Class 5 - Government and aided schools                             | 10         |
| 5      | Average language score in Class 8 - Government and aided schools                                | 10         |
| 6      | Average mathematics score in Class 8 - Government and aided schools                             | 10         |
| 7      | Difference between transition rate of boys and girls rate from upper primary to secondary level | 40         |

Annex 5.1 (Para 5.3: ii, iv)

## **Aggregate Grants to Local Bodies for 2020-21**

(Rs. crore)

| States            | Population 2011 | Area        | Population share | Area<br>share | State<br>Wise  | State<br>Wise  | Grants<br>RLB | Grants<br>ULB |
|-------------------|-----------------|-------------|------------------|---------------|----------------|----------------|---------------|---------------|
|                   | (millilons)     | ('000 Sq Kr | n)               |               | Share<br>(RLB) | Share<br>(ULB) | (Rs. crore)   | (Rs. crore)   |
| Andhra Pradesh    | 49.58           | 162.92      | 4.21             | 5.33          | 4.32           | 4.32           | 2625          | 1264          |
| Arunachal Pradesh | 1.38            | 83.74       | 0.12             | 2.74          | 0.38           | 0.38           | 231           | 111           |
| Assam             | 31.21           | 78.44       | 2.65             | 2.57          | 2.64           | 2.64           | 1604          | 772           |
| Bihar             | 104.10          | 94.16       | 8.84             | 3.08          | 8.26           | 8.26           | 5018          | 2416          |
| Chhattisgarh      | 25.55           | 135.19      | 2.17             | 4.43          | 2.39           | 2.39           | 1454          | 700           |
| Goa               | 1.46            | 3.70        | 0.12             | 0.12          | 0.12           | 0.12           | 75            | 36            |
| Gujarat           | 60.44           | 196.24      | 5.13             | 6.43          | 5.26           | 5.26           | 3195          | 1538          |
| Haryana           | 25.35           | 44.21       | 2.15             | 1.45          | 2.08           | 2.08           | 1264          | 609           |
| Himachal Pradesh  | 6.86            | 55.67       | 0.58             | 1.82          | 0.71           | 0.71           | 429           | 207           |
| Jharkhand         | 32.99           | 79.72       | 2.80             | 2.61          | 2.78           | 2.78           | 1689          | 813           |
| Karnataka         | 61.10           | 191.79      | 5.19             | 6.28          | 5.29           | 5.29           | 3217          | 1549          |
| Kerala            | 33.41           | 38.85       | 2.84             | 1.27          | 2.68           | 2.68           | 1628          | 784           |
| Madhya Pradesh    | 72.63           | 308.25      | 6.16             | 10.09         | 6.56           | 6.56           | 3984          | 1918          |
| Maharashtra       | 112.37          | 307.71      | 9.54             | 10.07         | 9.59           | 9.59           | 5827          | 2806          |
| Manipur           | 2.86            | 22.33       | 0.24             | 0.73          | 0.29           | 0.29           | 177           | 85            |
| Meghalaya         | 2.97            | 22.43       | 0.25             | 0.73          | 0.30           | 0.30           | 182           | 88            |
| Mizoram           | 1.10            | 21.08       | 0.09             | 0.69          | 0.15           | 0.15           | 93            | 45            |
| Nagaland          | 1.98            | 16.58       | 0.17             | 0.54          | 0.21           | 0.21           | 125           | 60            |
| Odisha            | 41.97           | 155.71      | 3.56             | 5.10          | 3.72           | 3.72           | 2258          | 1087          |
| Punjab            | 27.74           | 50.36       | 2.35             | 1.66          | 2.29           | 2.29           | 1388          | 668           |
| Rajasthan         | 68.55           | 342.24      | 5.82             | 11.21         | 6.36           | 6.36           | 3862          | 1859          |
| Sikkim            | 0.61            | 7.10        | 0.05             | 0.23          | 0.07           | 0.07           | 42            | 20            |
| Tamil Nadu        | 72.15           | 130.06      | 6.12             | 4.26          | 5.94           | 5.94           | 3607          | 1737          |
| Telangana         | 35.00           | 112.12      | 2.97             | 3.67          | 3.04           | 3.04           | 1847          | 889           |
| Tripura           | 3.67            | 10.49       | 0.31             | 0.34          | 0.31           | 0.31           | 191           | 92            |
| Uttar Pradesh     | 199.81          | 240.93      | 16.96            | 7.89          | 16.05          | 16.05          | 9752          | 4695          |
| Uttarakhand       | 10.09           | 53.48       | 0.86             | 1.75          | 0.95           | 0.95           | 574           | 278           |
| West Bengal       | 91.28           | 88.75       | 7.75             | 2.91          | 7.26           | 7.26           | 4412          | 2124          |
| All States        | 1178.19         | 3054.27     | 100.00           | 100.00        | 100.00         | 100.00         | 60750         | 29250         |

RLB: rural local bodies; ULB: urban local bodies

Annex 5.2 (Para 5.3: ix, x)

## **Aggregate Grants to Urban Local Bodies for 2020-21**

(Rs. Crore)

| States            | Million<br>-Plus Cities | Non- Million<br>-Plus Cities | Total Grants |
|-------------------|-------------------------|------------------------------|--------------|
| Andhra Pradesh    | 270                     | 994                          | 1264         |
| Arunachal Pradesh | 0                       | 111                          | 111          |
| Assam             | 0                       | 772                          | 772          |
| Bihar             | 408                     | 2008                         | 2416         |
| Chhattisgarh      | 214                     | 486                          | 700          |
| Goa               | 0                       | 36                           | 36           |
| Gujarat           | 810                     | 728                          | 1538         |
| Haryana           | 96                      | 513                          | 609          |
| Himachal Pradesh  | 0                       | 207                          | 207          |
| Jharkhand         | 318                     | 495                          | 813          |
| Karnataka         | 558                     | 991                          | 1549         |
| Kerala            | 339                     | 445                          | 784          |
| Madhya Pradesh    | 598                     | 1320                         | 1918         |
| Maharashtra       | 1586                    | 1220                         | 2806         |
| Manipur           | 0                       | 85                           | 85           |
| Meghalaya         | 0                       | 88                           | 88           |
| Mizoram           | 0                       | 45                           | 45           |
| Nagaland          | 0                       | 60                           | 60           |
| Odisha            | 0                       | 1087                         | 1087         |
| Punjab            | 180                     | 488                          | 668          |
| Rajasthan         | 562                     | 1297                         | 1859         |
| Sikkim            | 0                       | 20                           | 20           |
| Tamil Nadu        | 556                     | 1181                         | 1737         |
| Telangana         | 468                     | 421                          | 889          |
| Tripura           | 0                       | 92                           | 92           |
| Uttar Pradesh     | 1428                    | 3267                         | 4695         |
| Uttarakhand       | 0                       | 278                          | 278          |
| West Bengal       | 838                     | 1286                         | 2124         |
| All States        | 9229                    | 20021                        | 29250        |

Annex 5.3 (Para 5.3: xi, xiii, xvi, xviii)

Grants to Million Plus Cities for 2020-21

(Rs. crore)

| States/ U.A           | Population in millions | Air Quality <sup>2</sup> | Solid Waste<br>Management<br>/Sanitation | Total Grants |
|-----------------------|------------------------|--------------------------|--|--------------|
| Andhra Pradesh        | 3.21                   | 135                      | 135                                      | 270          |
| Vijayawada U.A        | 1.48                   | 62                       | 62                                       | 124          |
| Visakhapatnam         | 1.73                   | 73                       | 73                                       | 146          |
| Bihar                 | 2.05                   | 204                      | 204                                      | 408          |
| Patna U.A.            | 2.05                   | 204                      | 204                                      | 408          |
| Chhattisgarh          | 2.19                   | 107                      | 107                                      | 214          |
| Durg Bhilainagar U.A. | 1.06                   | 52                       | 52                                       | 104          |
| Raipur U.A.           | 1.12                   | 55                       | 55                                       | 110          |
| Gujarat               | 14.16                  | 405                      | 405                                      | 810          |
| Ahmadabad U.A.        | 6.36                   | 182                      | 182                                      | 364          |
| Rajkot U.A.           | 1.39                   | 40                       | 40                                       | 80           |
| Surat U.A.            | 4.59                   | 131                      | 131                                      | 262          |
| Vadodara U.A.         | 1.82                   | 52                       | 52                                       | 104          |
| Haryana               | 1.41                   | 48                       | 48                                       | 96           |
| Faridabad             | 1.41                   | 48                       | 48                                       | 96           |
| Jharkhand             | 3.66                   | 159                      | 159                                      | 318          |
| Dhanbad U.A.          | 1.2                    | 52                       | 52                                       | 104          |
| Jamshedpur U.A.       | 1.34                   | 58                       | 58                                       | 116          |
| Ranchi U.A.           | 1.13                   | 49                       | 49                                       | 98           |
| Karnataka             | 8.52                   | 279                      | 279                                      | 558          |
| Bruhat Bangalore U.A. | 8.52                   | 279                      | 279                                      | 558          |
| Madhya Pradesh        | 6.43                   | 299                      | 299                                      | 598          |
| Bhopal U.A.           | 1.89                   | 88                       | 88                                       | 176          |
| Gwalior U.A.          | 1.10                   | 51                       | 51                                       | 102          |
| Indore U.A.           | 2.17                   | 101                      | 101                                      | 202          |
| Jabalpur U.A.         | 1.27                   | 59                       | 59                                       | 118          |
| Maharashtra           | 29.93                  | 793                      | 793                                      | 1586         |
| Aurangabad U.A.       | 1.19                   | 32                       | 32                                       | 64           |
| Greater Mumbai U.A.   | 18.39                  | 488                      | 488                                      | 976          |
| Nagpur U.A.           | 2.50                   | 66                       | 66                                       | 132          |

<sup>&</sup>lt;sup>2</sup>According to the MoEF&CC, ambient air quality is not a major problem in eight urban agglomerations with a million plus population, namely, Kannur, Kochi, Kollam, Kozhikode, Malappuram, Thiruvananthapuram, and Thrissur in Kerala and Coimbatore in Tamil Nadu. With these cities way below the NAMP threshold for breaching pollution by particulate matter, their total grants will be linked to service-level benchmarks on solid waste management-star rating, drinking water, water recycling and rainwater harvesting.

Annex 5.3
(Para 5.3: xi, xiii, xvi, xviii)

Grants to Million Plus Cities for 2020-21

(Rs. crore)

|                         |                        |             |  | (Its. crore) |
|-------------------------|------------------------|-------------|--|--------------|
| States/ U.A             | Population in millions | Air Quality | Solid Waste<br>Management<br>/Sanitation | Total Grants |
| Nashik U.A.             | 1.56                   | 41          | 41                                       | 82           |
| Pune U.A.               | 5.06                   | 134         | 134                                      | 268          |
| Vasai-Virar City        | 1.22                   | 32          | 32                                       | 64           |
| Punjab                  | 2.80                   | 90          | 90                                       | 180          |
| Amritsar U.A.           | 1.18                   | 38          | 38                                       | 76           |
| Ludhiana                | 1.62                   | 52          | 52                                       | 104          |
| Rajasthan               | 5.19                   | 281         | 281                                      | 562          |
| Jodhpur U.A.            | 1.14                   | 62          | 62                                       | 124          |
| Jaipur                  | 3.05                   | 165         | 165                                      | 330          |
| Kota                    | 1.00                   | 54          | 54                                       | 108          |
| Tamil Nadu              | 13.27                  | 233         | 323                                      | 556          |
| Chennai U.A.            | 8.65                   | 181         | 181                                      | 362          |
| Coimbatore U.A.         | 2.13                   |             | 90                                       | 90           |
| Madurai U.A.            | 1.47                   | 31          | 31                                       | 62           |
| Tiruchirappalli U.A.    | 1.02                   | 21          | 21                                       | 42           |
| Telangana               | 7.68                   | 234         | 234                                      | 468          |
| Hyderabad U.A.          | 7.68                   | 234         | 234                                      | 468          |
| <b>Uttar Pradesh</b>    | 14.03                  | 714         | 714                                      | 1428         |
| Agra U.A.               | 1.76                   | 90          | 90                                       | 180          |
| Allahabad U.A.          | 1.21                   | 62          | 62                                       | 124          |
| Ghaziabad U.A.          | 2.38                   | 121         | 121                                      | 242          |
| Kanpur U.A.             | 2.92                   | 148         | 148                                      | 296          |
| Lucknow U.A.            | 2.90                   | 148         | 148                                      | 296          |
| Meerut U.A.             | 1.42                   | 72          | 72                                       | 144          |
| Varanasi U.A.           | 1.43                   | 73          | 73                                       | 146          |
| West Bengal             | 15.3                   | 419         | 419                                      | 838          |
| Asansol U.A.            | 1.24                   | 34          | 34                                       | 68           |
| Kolkata U.A.            | 14.06                  | 385         | 385                                      | 770          |
| Kerala                  | 12.14                  | -           | 339                                      | 339          |
| Kannur U.A.             | 1.64                   | -           | 46                                       | 46           |
| Kochi U.A.              | 2.12                   | -           | 59                                       | 59           |
| Kollam U.A.             | 1.11                   | -           | 31                                       | 31           |
| Kozhikode U.A.          | 2.03                   | -           | 57                                       | 57           |
| Malappuram U.A.         | 1.70                   | -           | 47                                       | 47           |
| Thiruvananthapuram U.A. | 1.68                   | -           | 47                                       | 47           |
| Thrissur U.A.           | 1.86                   | -           | 52                                       | 52           |
| Total                   | 141.97                 | 4400        | 4829                                     | 9229         |

State Wise Cantonment Boards

Annex 5.4
(Para 5.3: xii)

| Sl. No. | Name of State    | Name of    | Population    |
|---------|------------------|------------|---------------|
|         |                  | Cantonment | figure as per |
|         |                  |            | census 2011   |
| 1       | Bihar            | Danapur    | 28149         |
| 2       | Gujarat          | Ahmedabad  | 14345         |
| 3       | Haryana          | Ambala     | 55370         |
| 4       | Himachal Pradesh | Bakloh     | 1805          |
|         |                  | Dagshai    | 2904          |
|         |                  | Dalhousie  | 3549          |
|         |                  | Jutogh     | 2062          |
|         |                  | Kasauli    | 3885          |
|         |                  | Khasyol    | 12028         |
|         |                  | Subathu    | 3685          |
| 5       | Jharkhand        | Ramgarh    | 88781         |
| 6       | Karnataka        | Belgaum    | 19411         |
| 7       | Kerala           | Cannanore  | 4798          |
| 8       | Madhya Pradesh   | Jabalpur   | 72257         |
|         |                  | Mhow       | 69281         |
|         |                  | Morar      | 48464         |
|         |                  | Pachmarhi  | 12062         |
|         |                  | Saugor     | 32475         |
| 9       | Maharashtra      | Ahmednagar | 28986         |
|         |                  | Aurangabad | 18051         |
|         |                  | Dehu Road  | 48961         |
|         |                  | Deolali    | 54027         |
|         |                  | Kamptee    | 12457         |
|         |                  | Kirkee     | 70399         |
|         |                  | Pune       | 71831         |
| 10      | Meghalaya        | Shillong   | 11919         |
| 11      | Punjab           | Amritsar   | 10410         |
|         |                  | Ferozepur  | 53199         |
|         |                  | Jalandhar  | 47845         |

### **State Wise Cantonment Boards**

| Sl. No. | Name of State | Name of         | Population    |
|---------|---------------|-----------------|---------------|
|         |               | Cantonment      | figure as per |
|         |               |                 | census 2011   |
| 12      | Rajasthan     | Ajmer           | 3530          |
|         |               | Nasirabad       | 50804         |
| 13      | Tamilnadu     | St Thomas Mount | 43795         |
|         |               | Wellington      | 19462         |
| 14      | Telangana     | Secunderabad    | 217910        |
| 15      | Uttar Pradesh | Agra            | 53137         |
|         |               | Allahabad       | 39684         |
|         |               | Babina          | 27852         |
|         |               | Bareilly        | 30005         |
|         |               | Faizabad        | 12391         |
|         |               | Fatehgarh       | 14786         |
|         |               | Jhansi          | 28343         |
|         |               | Kanpur          | 108534        |
|         |               | Lucknow         | 63003         |
|         |               | Mathura         | 25603         |
|         |               | Meerut          | 93684         |
|         |               | Shahjahanpur    | 18116         |
|         |               | Varanasi        | 14119         |
| 16      | Uttarakhand   | Almora          | 2231          |
|         |               | Chakrata        | 5117          |
|         |               | Clement town    | 22577         |
|         |               | Dehradun        | 52716         |
|         |               | Landour         | 3543          |
|         |               | Lansdowne       | 5667          |
|         |               | Nainital        | 1398          |
|         |               | Ranikhet        | 18886         |
|         |               | Roorkee         | 14356         |
| 17      | West Bengal   | Barrackpore     | 17322         |
|         |               | Jalapahar       | 1711          |
|         |               | Lebong          | 1397          |
|         | TOTAL         |                 | 1915075       |

Annex 5.5 (Para 5.3: xiii) Year-on-year improvement in air quality in January 2021, to incentivise improvement in air quality in the Million-Plus cities

| Year    | Year-on-year improvement in air quality in January 2021 (in %) | Share of its allocated fund (in %) |
|---------|--|------------------------------------|
| 2020-21 | >5   | 100                                |
|         | 4-5  | 80                                 |
|         | 3-4  | 60                                 |
|         | 2-3  | 40                                 |
|         | 1-2  | 20                                 |
|         | <1   | 0                                  |

## Service Level Benchmarks

Annex 5.6 (Para 5.3: xvi, xvii)

| Water Supply                               |
|--|
| Households covered with piped water supply |
| Water supplied in litre per capita per day |
| Reduction in non-revenue water             |

| Water Conservation Measures  |  |  |  |  |  |  |  |
|------------------------------|--|--|--|--|--|--|--|
| Rainwater harvesting         |  |  |  |  |  |  |  |
| Reuse/recycling of water     |  |  |  |  |  |  |  |
| Rejuvenation of water bodies |  |  |  |  |  |  |  |

## Solid Waste Management and Sustaining outcomes of Swachh Bharat Mission

Garbage free star rating of the cities

Coverage of water supply for public/community toilet

## Star Rating of Cities<sup>3</sup>

Garbage free star rating certification for cities is done for 1,3,5 and 7 star only. Cities are required to fill all data on the online MIS and City profile, which is then used for all verification including ODF/ODF++/ODF++ certifications, and Swachh Survekshan. The cities are mandated to self-declare against any of the stars based on certain given parameters and marking procedure. Upon getting a formal request from the State mission directorate, a third party certification is carried out by an agency engaged by MoHUA for this purpose. On receipt of the formal request, the first level of evaluation comprises a desktop assessment of the city's claims, along with the supporting documents. A time window is given before rejecting any document/data given in support of a city's claim and the physical verification of city's claim is done on sample basis. All photos of physical verification with geo tagging are uploaded on the portal. Only after the desktop assessment is cleared, does the third party agency go for direct observation and field validation to the city, and conducts randomly sampled checks for every parameter, complemented by feedback from citizens, before certifying a city as a particular star.

There are some mandatory pre-conditions for declaring city a particular star:

- > 1-Star: Valid ODF certified
- > 3-Star: Valid ODF+ certified (that is cleanliness and sustainability of community and public toilets to be ensured)
- > 5-Star: Valid ODF++ certified (that is, cleanliness and sustainability of community and public toilets, along with safe containment, processing and disposal of faecal sludge and septage to be ensured)
- > 7-Star: Valid ODF-SS certified

All the above ODF certifications are again based on rigorous protocols developed by MoHUA to cover all aspects of sanitation in a holistic manner, and certified after verification through independent third party.

The detailed scoring matrix against various components/indicators are shown in the table below. Under each component the marking is done against level 1,2,3 and 4 based on the compliance level under various parameters and a suitable weightage is assigned to work out overall marking by a city. The total marks for mandatory, essential and desirable is 1000,1000 and 500 respectively. A suitable weightage is given against each component/indicator. The mark scored against a particular component under a certain level of compliance will be suitably weighted and the qualification of city under mandatory, essential and desirable will be judged as mentioned in the table. The indicators for each of the above are given below.

<sup>&</sup>lt;sup>3</sup>Inputs from Ministry of Housing and Urban Affairs

| Component/Cor | ndition |   |
|---------------|---------|---|
| MANDATORY     |         |   |
| WARDLEVEL     | M1      | Door to door collection                                       |
|               | M2      | Segregation at Ward level                                     |
|               | M3      | Sweeping  |
|               | M4      | Litter Bins   |
|               | M5      | Storage Bins  |
| CITYLEVEL     | M6      | Waste Processing- Wet Waste                                   |
|               | M7      | Waste processing Capacity-Wet Waste                           |
|               | M8      | Waste Processing Capacity- Wet Waste                          |
|               | M9      | Waste Processing Capacity – Dry Waste                         |
|               | M10     | Grievance Redressal   |
| ESSENTIAL     |         |   |
| WARD LEVEL    | E1      | Bulk Waste Generator  |
|               | E2      | Penalty/Spot Fines  |
| CITYLEVEL     | E3      | Segregation at City Level                                     |
|               | E4      | User Charges  |
|               | E5      | Plastic Ban   |
|               | E6      | Construction and Demolition (C&D) Waste-Collection            |
|               | E7      | Scientific Landfill-Availability & Use                        |
|               | E8      | Scientific Landfill-Waste disposed                            |
|               | E9(A)   | No visible solid waste in water bodies and storm water drains |
|               | E9(B)   | Screening of Nallahs  |
| DESIRABLE     |         |   |
| WARDLEVEL     | D1      | Sustainability  |
| CITYLEVEL     | D2      | On-site wet waste processing                                  |
|               | D3      | C&D waste-Storage, Segregation, processing, Recycling         |
|               | D4      | C&D Waste-Use of materials                                    |
|               | D5      | Dumpsite Remediation  |

## Fifteenth Finance Commission

# **Matrix- Star Rating Protocol for Garbage Free Cities**

| Indicator | 1 Star             | 3 Star             | 5 Star             | 7 Star             |
|-----------|--------------------|--------------------|--------------------|--------------------|
| Mandatory | At least 40% score | At least 60% score | At least 85% score | At least 95% score |
| Essential | At least 30% score | At least 50% score | At least 80% score | At least 90% score |
| Desirable | -Not applicable    | At least 30% score | At least 60% score | At least 80% score |

Annex 6.1 (Para 6.4: vii)

# **State-wise Allocation of SDRMF (2020-21)**

(Rs. crore)

| States            | Total Allocation | Union's Share | States' Share |
|-------------------|------------------|---------------|---------------|
| Andhra Pradesh    | 1491             | 1119          | 372           |
| Arunachal Pradesh | 278              | 250           | 28            |
| Assam             | 858              | 772           | 86            |
| Bihar             | 1888             | 1416          | 472           |
| Chhattisgarh      | 576              | 432           | 144           |
| Goa               | 15               | 12            | 3             |
| Gujarat           | 1765             | 1324          | 441           |
| Haryana           | 655              | 491           | 164           |
| Himachal Pradesh  | 454              | 409           | 45            |
| Jharkhand         | 757              | 568           | 189           |
| Karnataka         | 1054             | 791           | 263           |
| Kerala            | 419              | 314           | 105           |
| Madhya Pradesh    | 2427             | 1820          | 607           |
| Maharashtra       | 4296             | 3222          | 1074          |
| Manipur           | 47               | 42            | 5             |
| Meghalaya         | 73               | 66            | 7             |
| Mizoram           | 52               | 47            | 5             |
| Nagaland          | 46               | 41            | 5             |
| Odisha            | 2139             | 1604          | 535           |
| Punjab            | 660              | 495           | 165           |
| Rajasthan         | 1975             | 1481          | 494           |
| Sikkim            | 56               | 50            | 6             |
| Tamil Nadu        | 1360             | 1020          | 340           |
| Telangana         | 599              | 449           | 150           |
| Tripura           | 76               | 68            | 8             |
| Uttar Pradesh     | 2578             | 1933          | 645           |
| Uttarakhand       | 1041             | 937           | 104           |
| West Bengal       | 1348             | 1011          | 337           |
| All States        | 28983            | 22184         | 6799          |

Annex 6.2 (Para 6.4: viii)

# Methodology for Determination of State Level Allocations of Disaster Management

- 1. We have adopted a methodology for allocating resources to States for disaster management, which could be considered as change with continuity with respect to the methodology adopted by previous Finance Commissions. The revised methodology retains the importance assigned to the **expenditures** incurred by States on disaster management. In addition, it introduces weightages for **area**, **population** and **risk profile** of individual States to arrive at the final allocation for each State.
- 2. For calculating the figures related to expenditure on disaster relief, the States' expenditure booked under major head (MH) 2245 for the past seven years (2011-12 to 2017-18) has been considered. Some states debit a part of the expenditure on disasters directly from the SDRF maintained in the Public Account. We have added this expenditure to MH-2245. The NDRF releases for each year have, then, been subtracted from these values. The resultant expenditure data has, thereafter, been adjusted for inflation and an average expenditure has been determined for each state. We have assigned 70 per cent weightage to expenditure, that is, 70 per cent of average expenditure for each state ( $AE_{70}$ ) has been taken for further calculation.
- 3. For apportioning expenditure between the reorganised States of Andhra Pradesh and Telangana for the period 2011-12 to 2014-15 (up to June 1, the date of bifurcation), we have adopted the methodology similar to the one suggested by the FC-XIV. The expenditure of erstwhile undivided Andhra Pradesh, along with district-wise expenditure has been obtained for the period 2011-12 to 2014-15 (up to June 1) from the Accountant General, Andhra Pradesh. From the district-wise expenditure, the share of expenditure for the reorganised States of Andhra Pradesh and Telangana has been calculated for each of these years, which has then been used to apportion common expenditure booked through transfer entries and under the Pay and Accounts Officer, Hyderabad in the same ratio between these two States. The NDRF releases to erstwhile united Andhra Pradesh during the same period have been apportioned in the same ratio between the reorganised States of Andhra Pradesh and Telangana.
- 4. The State of Maharashtra has been taken as a reference State for arriving at the figures related to the weightage given to population and area of States on the basis of several considerations. First, Maharashtra has the highest SDRF allocation in 2019-20 (last year of FC-XIV allocations). Second, as Maharashtra is neither the largest State of India nor the most populous, it provides a good statistical fit for working out the unit value. Third, Maharashtra is exposed to multiple hazards in different geographical settings. It has the largest urban sprawl in the country, which is exposed to various hazards. Many of its districts are in rain shadow areas, making them highly drought-prone. Floods, landslides and earthquakes affect the State on a regular basis. The State, known for better governance, has responded to these risk events with considerable efficiency and

resources. Given the State's SDRF allocation, its area, population, and capacity and efficiency, it provides the most appropriate reference.

- 5. Area and population have been given weightage of 15 per cent each. Using the SDRF allocation of Maharashtra in 2019-20, we have calculated (i) a per-capita allocation based on the reference State's total allocation and (ii) a per-square kilometre allocation based on the reference State's total allocation. The unit value has then been applied to the respective population and area of each of the States, and 15 per cent of both the values has further been calculated to assign a total of 30 per cent weightage to area and population ( $A_{15} + P_{15}$ ).
- 6. The resulting values in step-2 and step-5 have been added for each State  $(W = AE_{70} + A_{15} + P_{15})$ . Thereafter, this value (W) has been multiplied by the Disaster Risk Index (DRI) scores (detailed in Annex 6.2A) for each corresponding State (Y = W \* DRI). Finally, the product of these two values (Y) has been added to the sum total of values obtained in step-2 and step-5 (Z = Y + W = W \* DRI + W) to arrive at the base value for each of the states. From the base value, the allocation for 2020-21 has been calculated after considering the standard 5 per cent annual inflation.
- 7. An additional allocation of 11 per cent has been provided for ten North-Eastern and Himalayan States to pay greater attention to infrastructure resilience in these States in view of the continuous disruption of their transport network by flash floods, landslides and other mountain hazards.

### Disaster Risk Index (DRI) for States

- 1. The DRI has been developed through a quantitative exercise assigning scores to the *probability of hazards* striking States and the *extent of vulnerability*. Based on these two parameters, a composite score has been developed for each State, leading to an index which ranks States based on the risk scores.
- 2. Hazards refer to physical events earthquake, cyclone, floods, drought and other risks events. Hazards, by themselves, do not lead to disasters. When hazards interact with people, their communities and economic activities, it results in a disaster event. The interaction of hazards and society is influenced by the people's socio-economic vulnerability. Vulnerability refers to the diminished capacity of an individual or group to anticipate, cope with, resist and recover from the impact of a natural or man-made hazard. Vulnerability includes both income and non-income dimensions, and could encompass conditions such as poor housing, informal jobs, social isolation and remote terrains in which the people live. Vulnerability is, therefore, a key factor explaining the severity and impact of a disaster.
- 3. DRI could also be developed based on actual occurrences of disasters and their socio-economic impacts. However, *due to an absence of a disaster database at the national level*, developing a risk index of greater complexity and accuracy has been found to be difficult. The national hazard zonation and risk exposure maps have been used to assign scores to the probability of hazards at the State level. Such a categorisation provides a State-level hazard score which could be easily understood.
- 4. As hazards and vulnerability come together to constitute a disaster, a score of 70, out of a total of 100, has been assigned to hazards, since these are the main drivers of disasters. In addition, any hazard event is likely to have a serious impact, given the population density, the level of infrastructure and economic activities in India. Vulnerability, captured also through area and population, has, thus, been assigned a lower score of 30.
- 5. There are four major hazards which affect different parts of the country floods, drought, cyclone and earthquake. The DRI assigns a maximum score of 15 to each of these four hazards, constituting a total of 60. Depending upon the level of probability of a hazard, States have been assigned the scores of 0, 5, 10 and 15 in an increasing order. In addition, all States have their share of smaller hazards, which affect communities on a local basis. In view of their continuous impacts, all States have been assigned an equal score of 10 for these smaller hazards, bringing the maximum score to 70.
- 6. The scores for different hazards have been assigned on the basis of the following analysis:

#### Flood Score

- Rashtriya Barh Ayog (RBA) and the extent of flood-prone areas reported by States to the Eleventh Five-Year Plan Working Group. After presenting the data on flood-prone areas in lakh hectares in absolute numbers, this area has also been estimated in relation to the total area of the State. States where floods affect more than 20 per cent of the total area are assigned a score of 15, while States where between 10 and 20 per cent of the total area is affected are assigned a score of 10. The remaining States with less than 10 per cent of the area affected have been assigned a score of 5<sup>1</sup>.
- ii) Arunachal Pradesh has been included as a high score flood-prone State, even though the flood-affected areas remain less than 10 per cent of the total land. This exception is made as the river Brahmaputra (which is known as river Siang in Arunachal Pradesh) flows through the State upon its entry into India. When the Brahmaputra is flooded, which happens almost every year, it inundates Arunachal Pradesh before it enters Assam. The other exception is Tamil Nadu, which has experienced heavy floods in the recent past and has been assigned a score of 10.
- iii) Among the bifurcated States, we could not get data on flood-affected areas in Uttarakhand, Jharkhand and Chhattisgarh. However, Uttarakhand is flooded due to a large network of rivers in the Himalayas. The state experienced massive floods in 2014. Further, when the adjacent country of Nepal is flooded, these floods inundate and affect Uttarakhand as well. Uttarakhand has, therefore, been assigned a high score of 15 for being a flood-prone state. On the other hand, Jharkhand and Chhattisgarh are not known for incidence of heavy floods. These two States have been assigned a lower score of 5.
- iv) All the hill States experience incidence of floods, but these are mostly flash floods which affect these States for a small duration of time. Due to the terrain, the runoff is fast and these States are not exposed to the risk of riverine flooding to which the States situated in major river basins are exposed. However, the flash floods cause a lot of damage to infrastructure.

#### **Drought Score**

v) According to the Manual for Drought Management, 2016 produced by Ministry of Agriculture and Farmers Welfare (http://agricoop.nic.in/sites/default/files/Manual%20Drought%202016.pdf), about 68 per cent of cropped area is vulnerable to drought, of which 33 per cent receives less than 750 mm of mean annual rainfall and is classified as "chronically drought-prone", while 35 per cent of the cropped area which receives mean annual rainfall of 750-1125 mm is classified as "drought-prone". The

https://ndma.gov.in/images/guidelines/flood.pdf

drought-prone areas of the country are confined primarily to the arid, semi-arid and sub-humid regions of peninsular and western India.

- vi) States which have a larger share of "chronically drought-prone" areas are assigned a higher score of 15, while those with a significant share of "drought-prone areas" are assigned the middle score of 10. The remaining states, except for the states in the North-East, Uttarakhand and Goa, have been assigned a score of 5. The data on drought has been taken from the Ministry of Agriculture.<sup>2</sup>
- vii) Some states such as Andhra Pradesh, Gujarat, Bihar, Odisha and Uttar Pradesh are in high risk category for both floods and drought. Such a risk assessment should not be construed as contradictory, and the presence of both the risks can be easily explained. These States are large in geographical area, and while some areas receive good rainfall and have dense river network, other areas are in arid and semi-arid regions.
- viii) The critical factor of climate change and variability needs to be considered. Some States which are in the arid and semi-arid regions experience heavy rainfall within a short period of time and face flooding. Rajasthan has experienced heavy flooding in certain areas in recent times. On the other hand, northern Bihar has been experiencing drought in recent years. Intra-seasonal variation in rainfall has brought a huge change. Bihar has experienced deficient rainfall during eight out of the last ten years and this has brought immense rural distress to the State. Similarly, the Bundelkhand region in Uttar Pradesh has been reeling under drought for years together.
- ix) The simultaneous incidence of floods and drought represent a highly dynamic situation, and it should be perceived as part of changing patterns of rainfall within the country. It is important that climate hazard risks be assessed on a continuous basis due to the impact of climate change.

#### Cyclone Score

cyclone as a hazard is limited to coastal States. The higher score of 15 is assigned to Andhra Pradesh, Odisha and West Bengal, which include very high cyclone-prone districts. The States of Tamil Nadu, Kerala and Gujarat, which include high cyclone-prone districts are assigned a score of 10. Though Kerala does not include any high cyclone prone districts, all its fourteen districts are exposed to cyclone risk. Therefore, Kerala has also been assigned a score of 10. The remaining states of Karnataka, Goa and Maharashtra have a moderate score of 5. The data has been taken from the cyclone risk map used by the NDMA.<sup>3</sup>

<sup>&</sup>lt;sup>2</sup>http://agricoop.nic.in/sites/default/files/Manual%20Drought%202016.pdf

http://www.rsmcnewdelhi.imd.gov.in/images/pdf/climatalogy/frequency-cyclone/hazard.pdf

<sup>4</sup>https://ncrmp.gov.in/cyclones-their-impact-in-india/

xi) The cyclones on the east and west coast are becoming more frequent due to the impact of climate change, which is changing the risk profile of these States. These scores, therefore, need to be reviewed on a periodic basis.

#### **Earthquakes Score**

- to this map, the Seismic Zones V and IV are high risk areas while Zones III and II are low seismic risk areas. The seismic map has been prepared based on the plate tectonics as well as the history of seismic events in India. According to this map, all the North-East and Himalayan States and some of the other states such as Bihar, Gujarat and Maharashtra are highly prone to earthquake risks. These States are assigned the highest score of 15. West Bengal and Uttar Pradesh are exposed to moderate seismic risks, and hence they are assigned the score of 10. The remaining States have been assigned low risk score of 5.5
- xiii) In addition to these four hazards, there is a residual category of other hazards. This category includes State-specific hazards such as landslides, windstorms, hailstorm, cloudbursts, lightning, etc. As all the States have their share of minor hazards which have considerable local impacts, all of them have been assigned a uniform score of 10.
- 7. The vulnerability score has been assigned based on the below poverty line population of each State in 2011-12 (Tendulkar Methodology). States with a poverty rate of 26 per cent and above have been assigned the highest score of 30, and those having poverty rate below 13 per cent are given a score of 10. The rest of the States having poverty rates between 13 per cent and 26 per cent have been assigned the intermediate score of 20. The reorganised States of Andhra Pradesh and Telangana have been assigned scores by assuming their poverty rate as that of undivided Andhra Pradesh in 2011-12.

A Summary of this scoring scheme is as follows:

#### **Scoring Scheme (Disasters)**

| Disasters  | High  | Medium | Low  | <b>Scoring System</b> | Poverty             |
|------------|-------|--------|------|-----------------------|---------------------|
| Floods     | 15.00 | 10.00  | 5.00 | Low - 10.00           | Below 13%           |
| Drought    | 15.00 | 10.00  | 5.00 | Medium - 20.00        | Between 13% and 26% |
| Cyclone    | 15.00 | 10.00  | 5.00 | High - 30.00          | Between 26% and 40% |
| Earthquake | 15.00 | 10.00  | 5.00 |                       |                     |
| Others     |       | 10.00  |      | _                     |                     |

<sup>&</sup>lt;sup>5</sup>http://pib.nic.in/newsite/mbErel.aspx?relid=168661

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8. The scores for hazards and vulnerability have been added to assign the risk score for each State to arrive at final DRI for each state. It is the first attempt to include State-level disaster risk scores in resource allocation and address a serious deficiency in the previous State-level allocations for disaster management. As more experience is gained, the disaster risk index may be refined further. A detailed statement of DRI score prepared for each state is provided below.

Disaster Risk Index Scores

| Points                     | (H+I)/100 | 0.650          | 0.700             | 0.700 | 0.800 | 0.550        | 0.350 | 0.800   | 0.450   | 0.450            | 0.600     | 0.600     | 0.550  | 0.600          | 0.700       | 0.600   | 0.400     | 0.500   | 0.500    | 0.900  | 0.450  | 0.550     | 0.400  | 0.550      | 0.450     | 0.600   | 0.750         | 0.50        | 0.750       |
|----------------------------|-----------|----------------|-------------------|-------|-------|--------------|-------|---------|---------|------------------|-----------|-----------|--------|----------------|-------------|---------|-----------|---------|----------|--------|--------|-----------|--------|------------|-----------|---------|---------------|-------------|-------------|
| Total Score (out of 100)   | (H+I)     | 65.00          | 70.00             | 70.00 | 80.00 | 55.00        | 35.00 | 80.00   | 45.00   | 45.00            | 00.09     | 00.09     | 55.00  | 00.09          | 70.00       | 00.09   | 40.00     | 50.00   | 50.00    | 90.00  | 45.00  | 55.00     | 40.00  | 55.00      | 45.00     | 00.09   | 75.00         | 50.00       | 75.00       |
| Poverty Points (out of 30) | I         | 10             | 30                | 30    | 30    | 30           | 10    | 20      | 10      | 10               | 30        | 20        | 10     | 30             | 20          | 30      | 10        | 20      | 20       | 30     | 10     | 20        | 10     | 10         | 10        | 20      | 30            | 10          | 20          |
| Total Score (out of 70)    | Н         | 55.00          | 40.00             | 40.00 | 50.00 | 25.00        | 25.00 | 00.09   | 35.00   | 35.00            | 30.00     | 40.00     | 45.00  | 30.00          | 50.00       | 30.00   | 30.00     | 30.00   | 30.00    | 00.09  | 35.00  | 35.00     | 30.00  | 45.00      | 35.00     | 40.00   | 45.00         | 40.00       | 55.00       |
| Others                     | Ŋ         | 10.00          | 10.00             | 10.00 | 10.00 | 10.00        | 10.00 | 10.00   | 10.00   | 10.00            | 10.00     | 10.00     | 10.00  | 10.00          | 10.00       | 10.00   | 10.00     | 10.00   | 10.00    | 10.00  | 10.00  | 10.00     | 10.00  | 10.00      | 10.00     | 10.00   | 10.00         | 10.00       | 10.00       |
| Earthquake                 | Ħ         | 5.00           | 15.00             | 15.00 | 15.00 | 5.00         | 5.00  | 15.00   | 5.00    | 15.00            | 5.00      | 5.00      | 5.00   | 5.00           | 15.00       | 15.00   | 15.00     | 15.00   | 15.00    | 5.00   | 5.00   | 5.00      | 15.00  | 5.00       | 5.00      | 15.00   | 10.00         | 15.00       | 10.00       |
| Cyclone                    | 田         | 15.00          |                   |       |       |              | 5.00  | 10.00   |         |                  |           | 5.00      | 10.00  |                | 5.00        |         |           |         |          | 15.00  |        |           |        | 10.00      |           |         |               |             | 15.00       |
| Drought                    | D         | 15.00          |                   |       | 10.00 | 5.00         |       | 15.00   | 5.00    | 5.00             | 10.00     | 15.00     | 5.00   | 10.00          | 15.00       |         |           |         |          | 15.00  | 5.00   | 15.00     |        | 10.00      | 15.00     |         | 10.00         |             | 5.00        |
| Floods                     | C         | 10.00          | 15.00             | 15.00 | 15.00 | 5.00         | 5.00  | 10.00   | 15.00   | 5.00             | 5.00      | 5.00      | 15.00  | 5.00           | 5.00        | 5.00    | 5.00      | 5.00    | 5.00     | 15.00  | 15.00  | 5.00      | 5.00   | 10.00      | 5.00      | 15.00   | 15.00         | 15.00       | 15.00       |
| States                     | В         | Andhra Pradesh | Arunachal Pradesh | Assam | Bihar | Chhattisgarh | Goa   | Gujarat | Haryana | Himachal Pradesh | Jharkhand | Karnataka | Kerala | Madhya Pradesh | Maharashtra | Manipur | Meghalaya | Mizoram | Nagaland | Odisha | Punjab | Rajasthan | Sikkim | Tamil Nadu | Telangana | Tripura | Uttar Pradesh | Uttarakhand | West Bengal |
| SINo                       | A         | 1              | 2                 | 3     | 4     | S            | 9     | 7       | ~       | 6                | 10        | 11        | 12     | 13             | 14          | 15      | 16        | 17      | 18       | 19     | 20     | 21        | 22     | 23         | 24        | 25      | 26            | 27          | 28          |

Annex 6.3 (Para 6.4: ix)

# Methodology for Determination of National Level Allocations of Disaster Management

- 1. As the provision for the NDRF is linked directly to expenditure, we recommend the total national allocation for disaster management, that is, the NDRMF be determined using the expenditure-based methodology.
- 2. We have calculated the total national allocation for disaster management based on the actual expenditure (from 2015-16 to 2017-18) and budgeted expenditure (for 2018-19 and 2019-20) from NDRF for five years (2015-16 to 2019-20) and adjusted it for inflation.
- 3. The average of inflation-adjusted expenditure of the five years is then increased by 10 per cent to arrive at the base figure.
- 4. Taking this base amount, the national allocation for disaster management for 2020-21 is estimated with an annual inflation of 5 per cent.
- 5. This methodology has determined the size of funds for NDRMF to be Rs. 12,390 crore for 2020-21.

#### **List of Functionaries**

Chairman Shri N. K. Singh

Members Shri Shaktikanta Das (up to 11.12.2018)

Shri Ajay Narayan Jha (vice Shri Shaktikanta Das)

Dr. Anoop Singh Dr. Ashok Lahiri Dr. Ramesh Chand

Secretary Shri Arvind Mehta

Addl. Secretary Shri Mukhmeet S. Bhatia

Joint Secretary Dr. Ravi Kota

Economic Adviser Shri Antony Cyriac

Media Adviser Ms. Maushumi Chakravarty

Director and OSD to Chairman Shri Bharat Bhushan Garg

Director and OSD to Chairman Shri Bharat Bhushan Garg
Directors Shri Gopal Prasad

Shri Jasvinder Singh

Joint Directors Shri Anand Singh Parmar

Shri Kandarp V. Patel

Shri Manish Dev

Ms. Sweta Satya

Deputy Directors Ms. Aditi Pathak

Shri Anshuman Mishra (up to November, 2018)

Shri Dalip Singh (up to August, 2018)

Shri Nitish Saini Shri Ritesh Kumar Shri Sandeep Kumar Ms. Shikha Dahiya Shri Vijay Kumar Mann

Library & Information Officer Shri D. K. Sharma

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Principal Private Secretary Smt Geetha Govind (up to December, 2018)

Shri J. K. Wadhwa

Shri P. Venkat Swamy

Shri R. Thyagarajan Shri S. Puttanna

Shri Sansar Chand Birdi

Shri Sudarshan

Assistant Directors Shri Mahesh Kumar

Shri Pankaj Gera Shri Parveen Jain

Shri Salam Shyamsunder Singh

Shri Sushant Kumar Bajaj

Shri Vikas Ahlawat

Private Secretary Shri Permod Kumar (up to December, 2018)

Assistant Accounts Officer Shri Mukesh Kumar Singh Sr. Translation Officer Shri Sanjeev Nayan Saha

Personal Assistants Shri R. Suresh
Assistant Section Officer Shri Sunil Dubey
Junior Sectt. Assistant Shri Hari Dutt
Consultants Shri A. C. Mehta

Shri Ashok Kumar Verma

Shri Balbir Singh Shri Bhola Ram

Shri Eugene Francis Shri J. K. Ahuja

Shri N. Dwarkanathan

Shri Prakash A

Shri Ravinder Kumar Shri S. Gopalkrishnan Shri Seetha Parthasarathy

Ms. Shatakshi Garg

Ms. Bidisha Bhattacharya (up to December, 2018)

Young Professional Ms. Himani Verma

Ms. Shivangi Shubham (Up to November, 2018)

Junior Consultant Shri Aniket