

II

Fiscal Position of State Governments¹

1. Introduction

2.1 This chapter analyses the consolidated finances of states reflected in their budgets for 2020-21, with the *caveat* that most states released their budgets in February-March 2020, *i.e.*, prior to the outbreak of COVID-19 in India¹. Hence, budget estimates (BE) are likely to get substantially revised. Nonetheless, the analysis assumes significance as an early warning sensor, as the states are in the vanguard of the fight against the pandemic. As is widely anticipated, the COVID-19-related lockdown and containment measures may impact states' revenue coincident with higher expenditure to manage the health crisis and heal and restore economic activity to pre-COVID-19 levels.

2.2 The rest of this chapter is divided into seven sections. Against the backdrop of an overview of key fiscal parameters in Section 2, the chapter examines actual budgetary outcomes for 2018-19, revised estimates (RE) for 2019-20 and BE

for 2020-21 in Sections 3, 4 and 5, respectively. Section 5 also throws light on specific COVID-19 effects on expected fiscal outcomes during 2020-21 that have macro-economic and financial implications. Section 6 deals with the financing pattern of states' combined gross fiscal deficit and Section 7 addresses outstanding liabilities of states, including contingent liabilities. Section 8 sets out concluding observations.

2. Key Fiscal Indicators

2.3 States have budgeted their consolidated gross fiscal deficit (GFD) at 2.8 per cent of GDP in 2020-21. Although the RE for 2019-20 placed the GFD at 3.2 per cent of GDP (Table II.1), provisional accounts released by the Office of the Comptroller and Auditor General (CAG) of India indicate that the budgeted level was achieved through large cutbacks on both revenue and capital expenditure to compensate for cyclical shortfalls in tax collections (Box II.1).

Table II.1: Major Deficit Indicators - All States and Union Territories with Legislature

(₹ lakh crore)

Item	2006-11 (Average)	2011-16 (Average)	2016-17	2017-18	2018-19	2019-20 (BE)	2019-20 (RE)	2020-21 (BE)
1	2	3	4	5	6	7	8	9
Gross Fiscal Deficit (Per cent of GDP)	1.30 (2.2)	2.74 (2.4)	5.36 (3.5)	4.10 (2.4)	4.63 (2.4)	5.54 (2.6)	6.52 (3.2)	6.26 (2.8)
Revenue Deficit (Per cent of GDP)	-0.17 (-0.4)	-0.02 (-0.0)	0.36 (0.2)	0.19 (0.1)	0.18 (0.1)	-0.08 (-0.0)	1.37 (0.7)	0.00 (0.0)
Primary Deficit (Per cent of GDP)	0.20 (0.3)	0.98 (0.8)	2.81 (1.8)	1.17 (0.7)	1.44 (0.8)	1.99 (0.9)	3.04 (1.5)	2.38 (1.1)

BE: Budget Estimates. RE: Revised Estimates.

Notes: 1. Data include 31 states and union territories with legislature.

2. Negative (-) sign indicates surplus.

3. GDP at current market prices is based on the National Statistical Office (NSO)'s National Accounts 2011-12 series.

Source: Budget documents of state governments.

¹ Various fiscal indicators are expressed as proportion to GDP at current market prices unless stated otherwise.

Box II.1:
Is there a Systematic Bias in Revised Estimates?

The aggregation of monthly provisional accounts (PA) estimates of states' receipts and expenditure by the Comptroller and Auditor General of India (CAG) for individual states is a timely indicator for assessing the true fiscal position of states, *albeit* at the cost of loss of some granularity. For every fiscal year, budget estimates (BE) give a projection before the start of the year, while revised estimates (RE) are available towards the end of the fiscal year. PA are available with a lag of about another two months, and accounts arrive with an additional lag of about nine to ten months. RE reveal a systematic upward bias, *albeit* with outliers across states (Chart 1a and 1b). The Reserve Bank of India started consolidating monthly PA data across states for 2018-19 and released them along with RE in the State Finances: A Study of Budgets of 2019-20.

2019-20 PA indicate that the GFD-GDP ratio was 2.6 per cent, exactly as budgeted, as against RE of 3.2 per cent (Table 1).

In a panel framework for 24 states for the period 2014-15 to 2019-20 using three gap variables – Gap1 (difference between actual and BE), Gap2 (difference between actual and RE) and Gap3 (difference between actual and PA), a test is conducted to check if the means of these gap variables are statistically different from zero. A simple fixed effects model without any explanatory variables is estimated using equation (1) to examine if the intercept

Table 1: Fiscal Position of States

(₹ lakh crore)

	2017-18	2018-19	2019-20 BE	2019-20 RE	2019-20 PA	2020-21 BE
I. Revenue Receipts	23.21 (13.6)	26.21 (13.8)	31.54 (14.9)	29.40 (14.5)	27.63 (13.6)	33.27 (14.8)
II. Capital Receipts	0.40 (0.2)	0.41 (0.2)	0.62 (0.3)	0.60 (0.3)	0.45 (0.2)	0.16 (0.1)
III. Revenue Expenditure	23.40 (13.7)	26.38 (13.9)	31.46 (14.9)	31.76 (15.1)	28.36 (13.9)	33.27 (14.8)
IV. Capital Expenditure	4.31 (2.5)	4.87 (2.6)	6.22 (2.9)	5.78 (2.8)	4.97 (2.4)	6.46 (2.9)
a. Capital Outlay	3.94 (2.3)	4.40 (2.3)	5.81 (2.8)	5.31 (2.6)	4.55 (2.2)	5.98 (2.7)
b. Loans and Advances by States	0.38 (0.2)	0.47 (0.3)	0.41 (0.1)	0.47 (0.2)	0.42 (0.2)	0.48 (0.2)
V. Fiscal Deficit/Surplus	4.10 (2.4)	4.63 (2.4)	5.54 (2.6)	6.52 (3.2)	5.25 (2.6)	6.26 (2.8)
VI. Revenue Deficit/Surplus	0.19 (0.1)	0.18 (0.1)	-0.08 (-0.0)	1.37 (0.7)	0.72 (0.4)	0.00 (0.0)

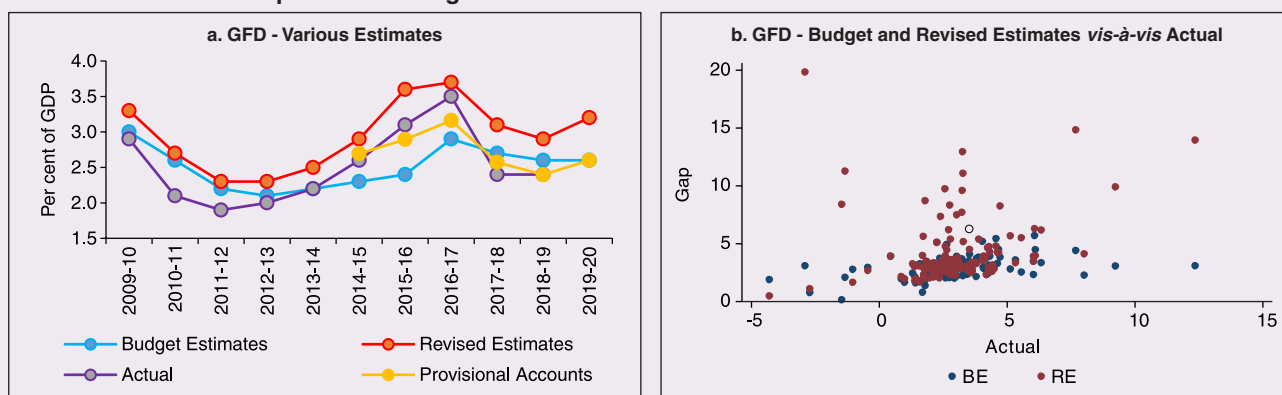
Note: (1) Figures in parentheses are per cent of GDP.

(2) Data for 2019-20 Provisional Accounts (PA) are accounts figures of 24 states available with CAG and for the remaining 7 states/UTs 2019-20 Budget Estimates (BE) figures are used to arrive at all states and UTs.

Sources: Budget documents of state governments and CAG.

term is statistically close to zero, and standard t-tests reported below (Table 2).

Chart 1: Comparison of Budget and Revised Estimates and Actual and Provisional Accounts



Source: Budget documents of state governments.

(Contd...)

Fiscal Position of State Governments

Table 2: Panel Fixed Effect Model of Gap Variables

Dependent Variable#	Intercept	Std. Error	t-statistics	p-value	Remark
Gap1	0.059	0.158	0.37	0.710	Mean is same
Gap2	-1.193	0.305	-3.91	0.000**	Mean is different
Gap3	-0.016	0.103	-0.16	0.877	Mean is same

Gap between actual and other estimates - BE, RE and PA.

** Significance at 5 per cent level of significance.

Source: RBI staff estimates.

$$\text{Gap}_{it} = \mu_{it} + \varepsilon_{it} \dots\dots\dots (1)$$

where i=1, 2.....N, indicate number of states; t=1, 2.....T, indicate number of years.

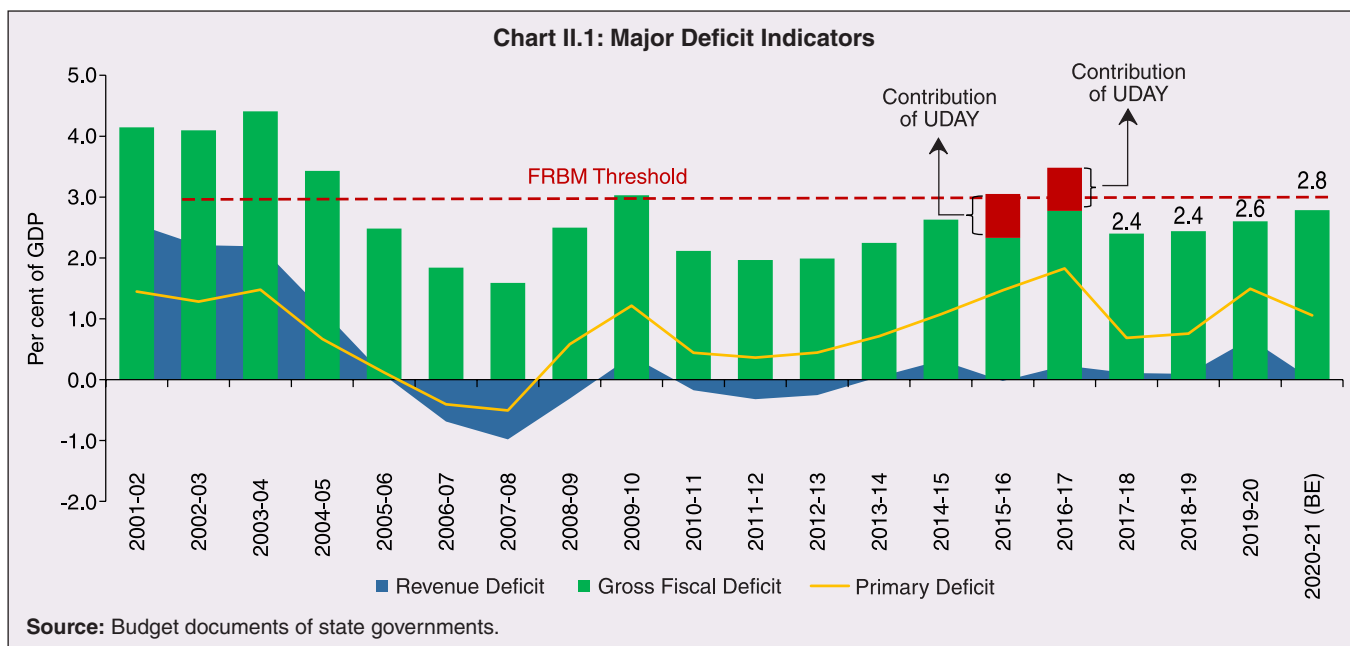
The results show that the average gap of BE and PA from actuals is not statistically different from zero, with the means across states being almost equal, while the deviation of RE from actual is statistically significant. The negative and statistically significant sign for Gap2 indicates an upward bias in RE. These results have two important policy implications. First, PA consolidated across states can be safely used as a benchmark for making comparative assessments of fiscal performance across time for policy purposes instead of the RE. Second, considering that the 2020-21 BE is projected with 2019-20 RE as the base, the large shortfall in receipts in 2019-20 PA *vis-à-vis* the RE clearly distorts the fiscal arithmetic for 2020-21 BE, even without the impact of the pandemic.

2.4 In the event, these movements in states' finances have possibly negated the fiscal impulse from central finances in that year to counter the cyclical slowdown. Cuts in spending also explain the improvement in 2018-19 (Table II.1 and Chart II.1).

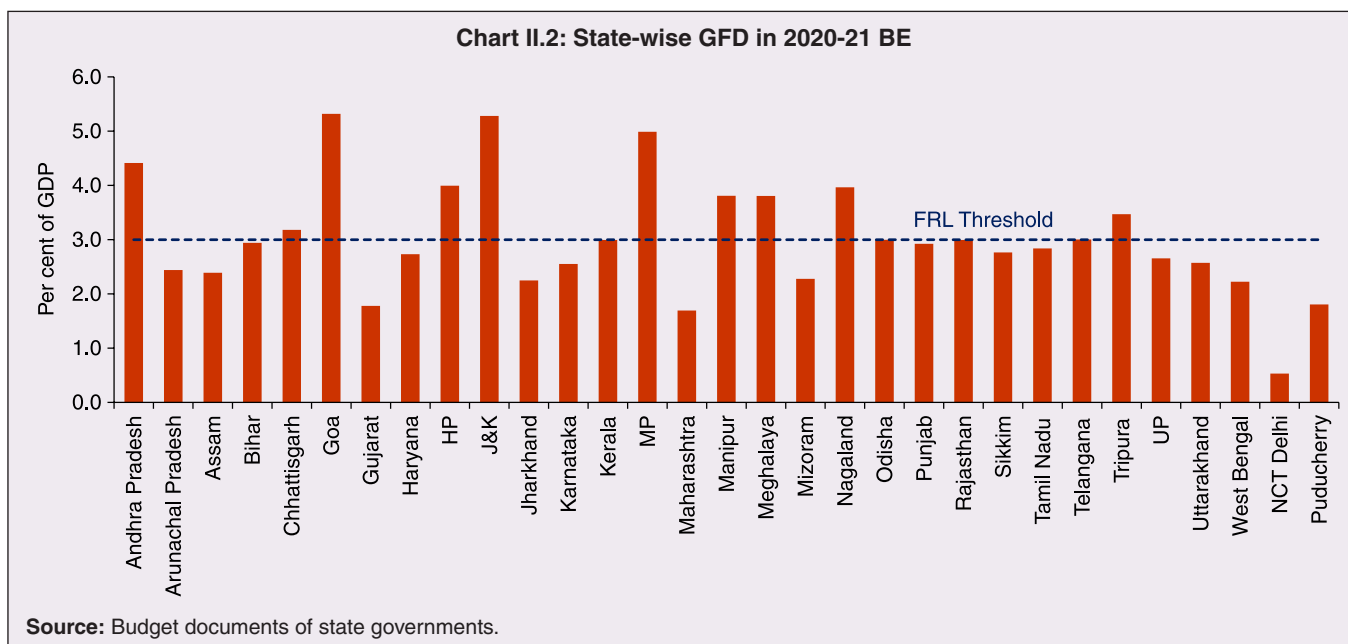
2.5 In 2020-21, about half of the states have budgeted the GFD-GSDP ratio at or above the 3 per cent threshold although, as stated earlier, most of these budgets were presented prior to the

onset of COVID-19 (Chart II.2). The direction of possible revision is evident from the fact that the average for states presenting their budget before the outbreak of the pandemic is 2.4 per cent, while the average for the balance number of states that made post-outbreak budget presentation is 4.6 per cent of GSDP.

2.6 Thus, states are grappling with the pandemic with constrained fiscal space. In terms of primary balances, states are clearly in an



Source: Budget documents of state governments.



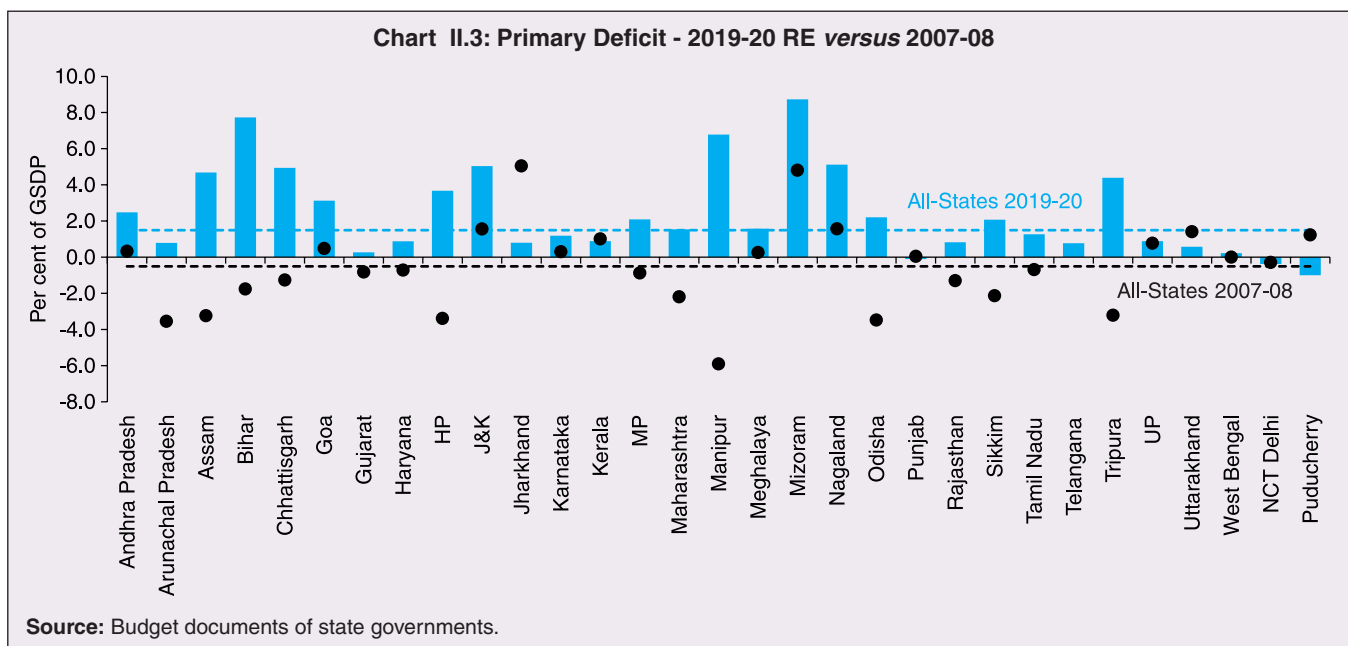
unfavourable position, with most states incurring primary deficits in 2019-20, as against primary surpluses at the onset of the global financial crisis (Chart II.3).

3. 2018-19: Accounts

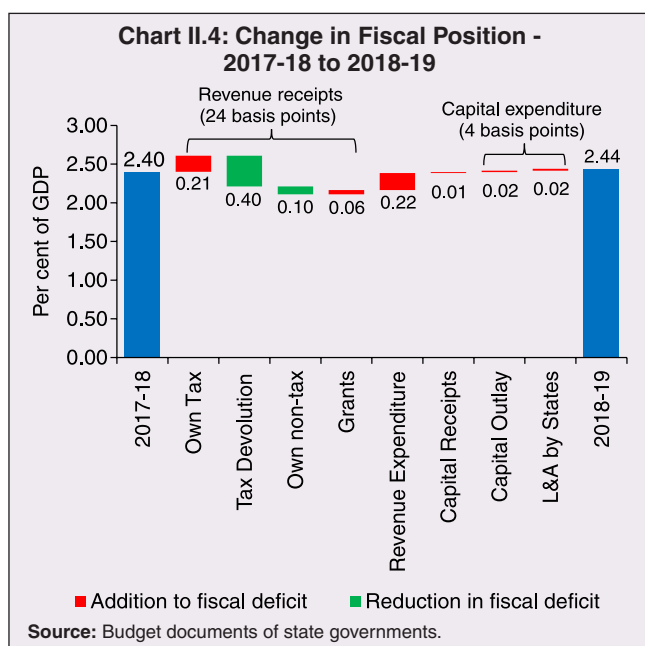
2.7 For the second consecutive year, states maintained their GFD at 2.4 per cent of GDP in

2018-19 (Chart II.4). This rectitude was brought about by higher revenue receipts on account of tax devolution, even though revenue expenditure and capital expenditure increased (Table II.2).

2.8 The tax revenue to GDP ratio increased marginally with the higher devolution, partly offset by lower own tax revenue (Table II.2), although



Fiscal Position of State Governments



the latter was made good through the GST compensation cess, booked as grant-in-aid from the centre in accounting terms. Lower own tax revenue was reflected in a sharp decline in sales tax/value added tax (VAT), even as states' goods and services tax (SGST) collections increased.

2.9 Non-tax revenue, comprising own non-tax revenue and grants from the centre improved in 2018-19 *vis-à-vis* 2017-18, driven by higher collections from general services and petroleum (Table II.2).

2.10 The rise in revenue expenditure in 2018-19 *vis-à-vis* the preceding year was largely on the non-developmental front (Table II.3). Appropriation

Table II.2: Aggregate Receipts of State Governments and UTs

(₹ lakh crore)

Item	2016-17	2017-18	2018-19	2019-20 (RE)	2020-21 (BE)
1	2	3	4	5	6
Aggregate Receipts (1+2)	26.46 (17.3)	27.76 (16.2)	31.27 (16.5)	35.90 (17.6)	39.53 (17.6)
1. Revenue Receipts (a+b)	20.81 (13.6)	23.21 (13.6)	26.20 (13.8)	29.40 (14.5)	33.27 (14.8)
a. States' Own Revenue (i+ii)	11.17 (7.3)	13.10 (7.7)	14.34 (7.6)	15.79 (7.8)	17.66 (7.9)
i. States' Own Tax	9.46 (6.1)	11.30 (6.6)	12.15 (6.4)	13.40 (6.6)	14.98 (6.7)
ii. States' Own Non-Tax	1.71 (1.1)	1.80 (1.1)	2.19 (1.2)	2.39 (1.2)	2.68 (1.2)
b. Central Transfers (i+ii)	9.69 (6.3)	10.11 (5.9)	11.87 (6.3)	13.60 (6.7)	15.60 (6.9)
i. Shareable Taxes	6.08 (3.9)	6.05 (3.5)	7.47 (3.9)	7.03 (3.5)	8.17 (3.6)
ii. Grants-in Aid	3.61 (2.3)	4.06 (2.4)	4.40 (2.3)	6.57 (3.2)	7.43 (3.3)
2. Net Capital Receipts (a+b)	5.61 (3.3)	4.54 (2.7)	5.06 (2.7)	6.50 (3.2)	6.26 (2.8)
a. Non-Debt Capital Receipts (i+ii)	0.16 (0.1)	0.40 (0.2)	0.42 (0.2)	0.62 (0.3)	0.20 (0.1)
i. Recovery of Loans and Advances	0.16 (0.1)	0.40 (0.2)	0.41 (0.2)	0.60 (0.3)	0.16 (0.1)
ii. Miscellaneous Capital Receipts	0.00 (0.0)	0.00 (0.0)	0.01 (0.0)	0.02 (0.0)	0.04 (0.0)
b. Debt Receipts (i+ii)	5.45 (3.6)	4.15 (2.4)	4.64 (2.4)	5.88 (2.9)	6.06 (2.7)
i. Market Borrowings	3.52 (2.3)	3.45 (2.0)	3.73 (2.0)	4.88 (2.4)	5.61 (2.5)
ii. Other Debt Receipts	1.93 (1.3)	0.70 (0.4)	0.91 (0.5)	1.00 (0.5)	0.45 (0.2)

RE: Revised Estimates. BE: Budget Estimates.

Notes: 1. Figures in parentheses are per cent of GDP.

2. Debt receipts are on net basis.

Source: Budget documents of state governments.

Table II.3: Revenue Expenditure Pattern of State Governments and UTs

(₹ lakh crore)

Item	2016-17	2017-18	2018-19	2019-20 (RE)	2020-21 (BE)
1	2	3	4	5	6
Revenue Expenditure (1+2)	21.22 (13.8)	23.40 (13.7)	26.38 (13.9)	30.76 (15.1)	33.27 (14.8)
1. Development Expenditure (i+ii)	13.66 (8.9)	14.66 (8.6)	16.36 (8.6)	19.46 (9.6)	20.68 (9.2)
(i) Social Services	8.54 (5.5)	9.13 (5.3)	10.32 (5.4)	12.24 (6.0)	13.35 (5.9)
(ii) Economic Services	5.12 (3.3)	5.53 (3.2)	6.04 (3.2)	7.23 (3.6)	7.32 (3.3)
2. Non-development Expenditure	6.99 (4.5)	8.06 (4.7)	9.22 (4.9)	10.36 (5.1)	11.64 (5.2)
of which:					
Appropriation for Reduction or Avoidance of Debt	0.16 (0.1)	0.18 (0.1)	0.34 (0.2)	0.21 (0.1)	0.39 (0.2)
Interest Payments	2.55 (1.7)	2.93 (1.7)	3.19 (1.7)	3.49 (1.7)	3.89 (1.7)
Pension	2.27 (1.5)	2.75 (1.6)	3.15 (1.7)	3.55 (1.7)	3.86 (1.7)
Administrative Services	1.47 (1.0)	1.62 (0.9)	1.84 (1.0)	2.20 (1.1)	2.56 (1.1)

RE: Revised Estimates. BE: Budget Estimates.

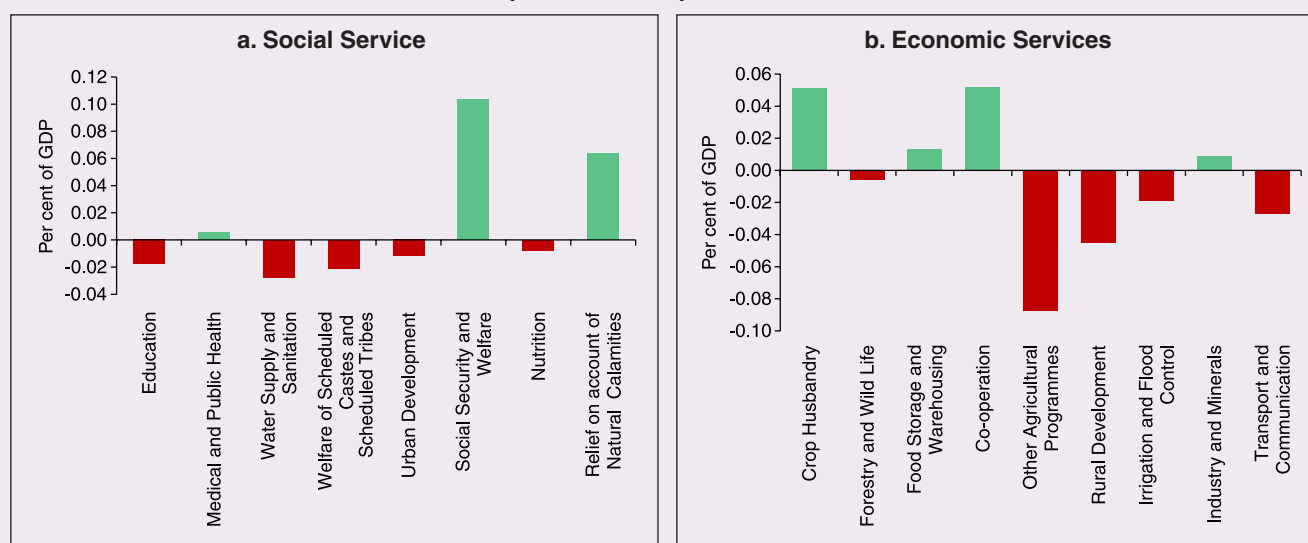
Note: Figures in parentheses are per cent of GDP.

Source: Budget documents of state governments.

for reduction or avoidance of debt increased along with other committed expenditures like pensions and administrative and miscellaneous general services.

2.11 Under developmental expenditure, there were reallocations under social and economic services (Chart II.5).

Chart II.5: Revenue Expenditure Components - 2018-19 vis-à-vis 2017-18



Source: Budget documents of state governments.

Table II.4: Expenditure Pattern of State Governments and UTs

(₹ lakh crore)

Item	2016-17	2017-18	2018-19	2019-20 (RE)	2020-21 (BE)
1	2	3	4	5	6
Aggregate Expenditure (1+2 = 3+4+5)	26.38 (17.1)	27.72 (16.2)	31.25 (16.5)	36.54 (18.0)	39.73 (17.7)
1. Revenue Expenditure	21.22	23.40	26.38	30.76	33.27
<i>of which:</i>	(13.8)	(13.7)	(13.9)	(15.1)	(14.8)
Interest payments	2.55 (1.7)	2.93 (1.7)	3.19 (1.7)	3.49 (1.7)	3.89 (1.7)
2. Capital Expenditure	5.17	4.31	4.87	5.78	6.46
<i>of which:</i>	(3.4)	(2.5)	(2.6)	(2.8)	(2.9)
Capital outlay	3.96 (2.6)	3.94 (2.3)	4.40 (2.3)	5.31 (2.6)	5.98 (2.7)
3. Development Expenditure	18.62 (12.1)	18.77 (11.0)	21.01 (11.1)	24.88 (12.2)	26.69 (11.9)
4. Non-Development Expenditure	7.20 (4.7)	8.26 (4.8)	9.44 (5.0)	10.71 (5.3)	12.09 (5.4)
5. Others*	0.56 (0.4)	0.68 (0.4)	0.80 (0.4)	0.94 (0.5)	0.95 (0.4)

RE: Revised Estimates. BE: Budget Estimates.

*: Includes grants-in-aid and contributions (compensation and assignments to local bodies).

Notes: 1. Figures in parentheses are percent of GDP.

2. Capital Expenditure includes capital outlay and loans and advances by state governments.

Source: Budget documents of state governments.

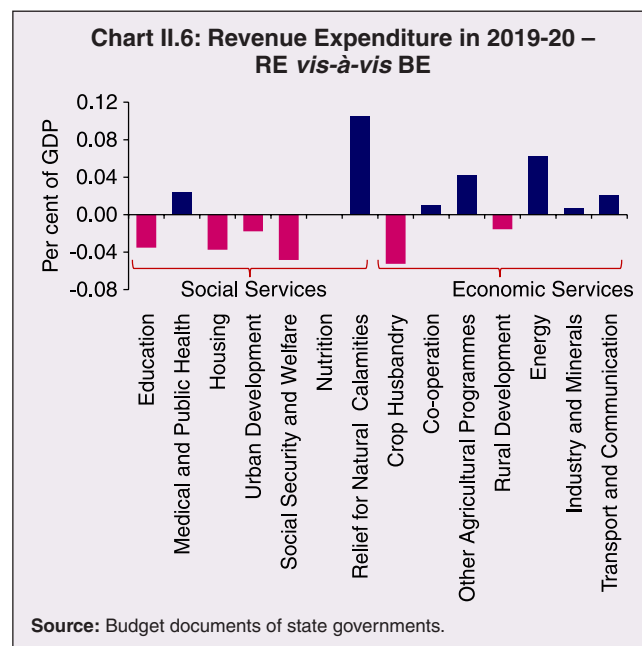
2.12 Capital expenditure undertaken by states, which accounts for more than 60 per cent of general government capital expenditure is generally treated as a residual and is prone to adjustment, conditional upon revenue generation. In 2017-18 and 2018-19 as well, capital spending was reduced from budgeted levels (Table II.4).

4. 2019-20: Revised Estimates and Provisional Accounts

2.13 Drawing inference from Box II.1, the RE for 2019-20 is discussed only for expenditure composition, as the same is not available for the PA.

2.14 Despite lower revenue collection (as reflected in RE as well as in PA), states maintained revenue spending closer to 2018-19 levels, *albeit* lower than budgeted levels, with a re-allocation

towards development expenditure (Chart II.6). As per PA, however, there is a perceptible decline



in revenue spending, although break-up is not available (Table 1 of Box II.1).

2.15 Committed expenditure also rose, particularly pension payments (Chart II.7). Notably, allocation of spending towards farm loan waivers went up in 2019-20 (Table II.5).

2.16 The reduction in capital spending *vis-a-vis* BE observed in 2017-18 and 2018-19 recurred in 2019-20 on account of lower revenue accretion and was mainly concentrated in the rural development and irrigation sectors.

2.17 During 2019-20 as per PA, all states cut capex not only against budgeted levels, but also *vis-à-vis* the previous year, with all states remaining in the negative quadrant (Chart II.8).

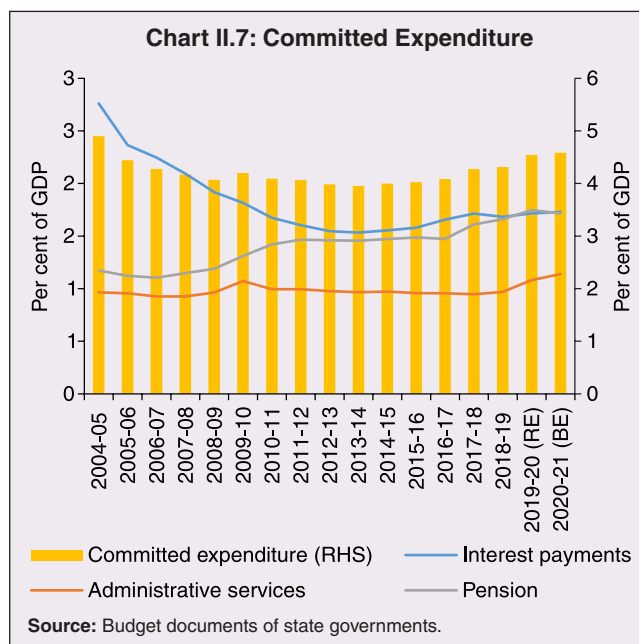


Table II.5: Fiscal Impact of States' Farm Loan Waiver Programmes

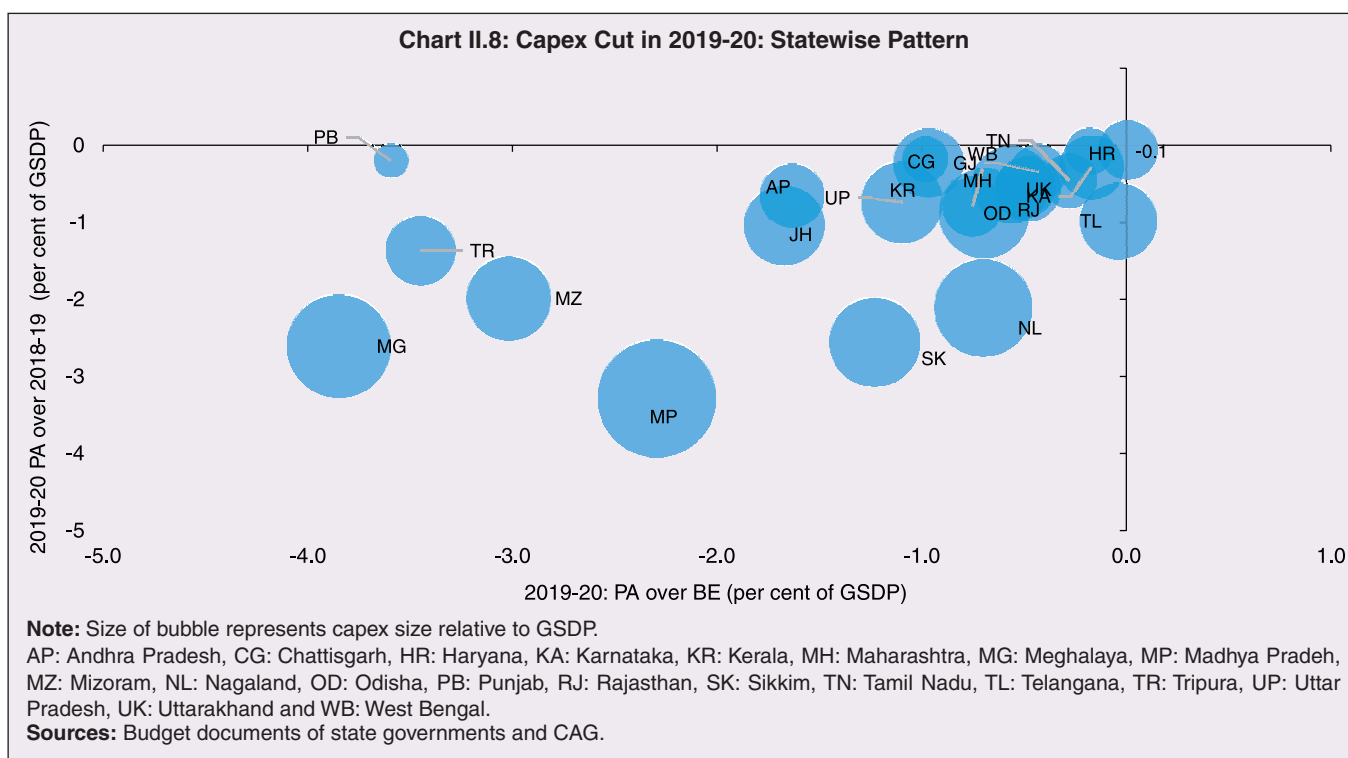
(₹ crore)

State	Announcement Year	Amount Announced	Budgeted Amount						
			2014-15	2015-16	2016-17	2017-18	2018-19	2019-20 (RE)	2020-21 (BE)
1	2	3	4	5	6	7	8	9	10
Andhra Pradesh	2014-15	24,000	4,000 (0.8)	742 (0.1)	3,512 (0.5)	3,602 (0.5)	875 (0.1)	-	-
Telangana	2014-15	17,000	4,250 (0.8)	4,250 (0.7)	2,957 (0.4)	4,016 (0.5)	20 (0.0)	6,000 (0.6)	6,225 (0.6)
Tamil Nadu	2016-17	5,280	-	-	1,682 (0.1)	1,870 (0.1)	884 (0.1)	807 (0.0)	735 (0.0)
Maharashtra	2017-18	34,020	-	-	-	15,020 (0.6)	3,517 (0.1)	-	-
Maharashtra	2019-20	15,000	-	-	-	-	-	16,931 (0.6)	-
Maharashtra	2020-21	7,000	-	-	-	-	-	-	7,001 (0.2)
Uttar Pradesh	2017-18	36,360	-	-	-	21,102 (1.4)	3,732 (0.2)	540 (0.0)	317 (0.0)
Punjab	2017-18	10,000	-	-	-	348 (0.1)	4,238 (0.8)	2,000 (0.3)	2,000 (0.3)
Karnataka	2018-19	44,000	-	-	-	3,917 (0.3)	12,640 (0.8)	5,176 (0.3)	441 (0.0)
Rajasthan	2018-19	18,000	-	-	-	-	3,000 (0.3)	4,271 (0.4)	4,173 (0.4)
Madhya Pradesh	2018-19	36,500	-	-	-	-	-	-	-
Chhattisgarh	2018-19	6,100	-	-	-	-	3,250 (1.1)	4,984 (1.5)	-
Jharkhand	2020-21	2,000	-	-	-	-	-	-	2,000 (0.5)
Total		2,31,260	8,250	4,992	8,151	49,875	32,156	40,708	22,893
Per cent of states' total expenditure			0.4	0.2	0.3	1.8	1.0	1.1	0.6
Per cent of GDP			0.1	0.0	0.1	0.3	0.2	0.2	0.1

RE: Revised Estimates. BE: Budget Estimates. -/-: Not available/Not applicable.

Note: Figures in parentheses indicate loan waiver as a percentage of GSDP for the corresponding year.

Source: Budget documents of state governments.



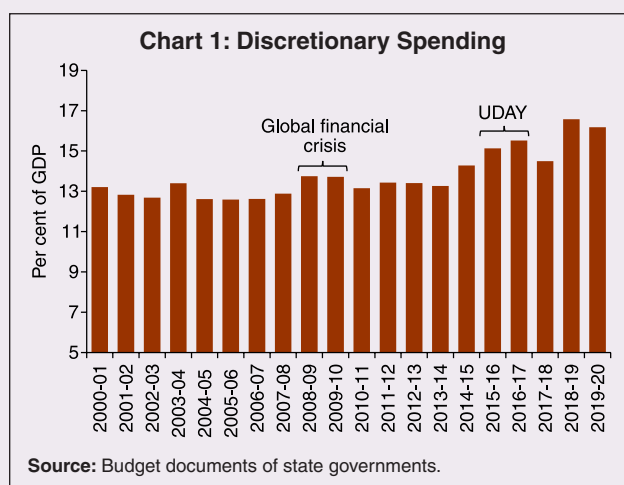
2.18 Although states have been conservative in adhering to FRL targets even at the cost of cutting capital spending, several factors impinging

on states' spending decisions pose challenging trade-offs (Box II.2).

**Box II.2:
Determinants of States' Discretionary Spending**

States' total primary spending (total spending less interest payments) is considered as an indicator of discretionary spending², driven by policy considerations rather than macroeconomic conditions. States' discretionary spending remained at around 13 per cent of GDP in the pre-global financial crisis period (Chart 1). Since 2015, however, discretionary spending has risen in response to exogenous fiscal shocks in the form of UDAY, farm loan waivers and income support schemes (RBI, 2019a).

In a panel framework for 14 non-special category³ Indian states covering the time period 1980-81 to 2012-13, capital outlay is observed to be procyclical and primary revenue expenditure is acyclical (not linked to the business cycle) (RBI, 2014). For the current analysis, discretionary spending measured by primary expenditure is modelled as follows



(Contd...)

² Since interest payment is mandatory, it is subtracted from the total expenditure to arrive at discretionary spending.

³ Special category states are those states that have a low resource base and cannot mobilise resources for development. Some of the features required for special status are: (i) hilly and difficult terrain; (ii) low population density or sizeable share of tribal population; (iii) strategic location along borders with neighbouring countries; (iv) economic and infrastructural backwardness; and (v) non-viable nature of state finances.

(Arena and Revilla, 2009; Sturzenegger and Werneck (2006):

$$\text{Primary expenditure}_{it} = \alpha_i + \beta_1 \text{Primary expenditure}_{it-1} + \beta_2 \text{GSDP Growth}_{it} + \beta_3 \text{Debt}_{it-1} + \beta_4 \text{FRL dum}_{it} + \beta_5 \text{calamities dum}_{it} + \beta_6 \text{Election dum}_{it} + \varepsilon_t \dots\dots\dots (1)$$

where $i=1, 2, \dots, N$, indicate number of states; $t=1, 2, \dots, T$, indicate number of years; α represents state fixed effects which control for heterogeneity across states; primary expenditure is the governments' discretionary spending; GSDP growth captures the state of the economy; debt or outstanding liabilities of state governments reflects sustainability of government finances; election is represented by a dummy variable taking the value 1 in the election year (to capture spending in an election year), and 0 otherwise; calamities is a dummy variable taking the value 1 if a state is affected by natural calamities such as drought, floods and cyclones, and 0

otherwise; and ε is an error term. The variables primary expenditure and debt are expressed as ratios of GSDP. The variables relating to the output gap and debt are used as two interactive dummies to examine asymmetric reactions of discretionary spending to impulse therefrom. The variable GSDP growth is interacted with positive and negative output gaps separately. The debt variable is also separated *via* two interactive dummies – high debt (above 25 per cent of GSDP) and low debt (less than or equal to 25 per cent of GSDP)⁴. A dummy for FRL implementation is also incorporated, *i.e.*, 1 for the year states have been under this rule and 0 otherwise.

Base results indicate that debt plays an important role in states' spending decisions. Spending sensitivity to debt seems asymmetric, negative and significant at higher levels of debt (greater than 25 per cent). States' discretionary spending is also inclined towards pro-cyclicality. Natural calamities are statistically significant and surprisingly,

Table 1: Two-Step System Generalized Method of Moments (GMM) Results
Dependent Variable: Primary Expenditure

	Base Equation			Asymmetry 1 (Debt)		Asymmetry 2 (State of the Economy)	
	1	2	3	4	5	6	7
Primary Exp (-1)	.373** (.170)	.379** (.143)	.049 (.321)	.067 (.359)	.240 (.310)	.269 (.315)	.333 (.231)
GSDP Growth	.233* (.129)	.165 (.104)	.182 (.111)	.173 (.106)	.107 (.120)		
Debt (-1)	-.105*** (.034)	-.073* (.035)	-.134*** (.044)			-.117* (.060)	-.140** (.051)
FRL Dum		.764 (.717)	1.315 (1.001)	1.177 (.868)	1.078 (.847)	1.519 (1.428)	1.522* (.770)
Calamities Dum			-6.179** (2.883)	-6.734** (2.788)	-6.376* (3.189)	-6.195 (5.165)	-4.572 (3.899)
Election Dum			-.408 (.868)	-.311 (.780)	-.441 (.876)	-.960 (.897)	-.570 (.624)
Debt>25%				-.086* (.042)			
Debt<=25%					.167 (.156)		
GSDP*Output Gap ^{pos}						-.114 (.139)	
GSDP*Output Gap ^{neg}							.207* (.113)
Constant	14.003*** (3.989)	12.964*** (3.647)	21.426** (7.823)	18.987** (8.35)	12.495** (4.953)	17.017** (6.938)	15.617** (5.644)
Observations	396	396	396	396	396	396	396
Group/Instruments	22/18	22/18	22/18	22/18	22/18	22/18	22/18
F-Statistics	0.004	0.003	0.004	0.009	0.028	0.027	0.006
AR (2)	0.174	0.133	0.662	0.550	0.340	0.804	0.341
Hansen	0.229	0.274	0.367	0.443	0.429	0.212	0.612

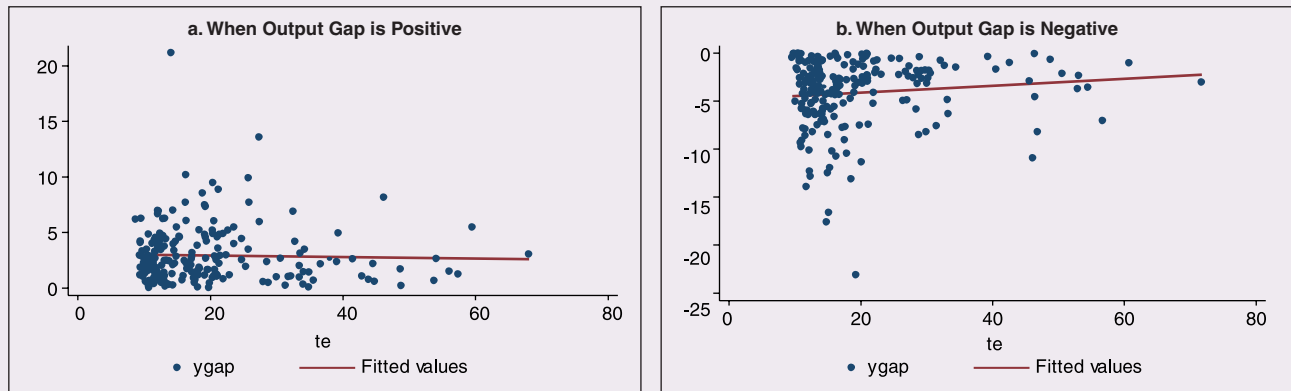
Note: ***, ** and * are statistical significance at the 1, 5 and 10 per cent levels, respectively; t statistics in parentheses are based on White heteroscedasticity-consistent standard errors; p-values reported for AR (2) and Hansen statistics.

Source: RBI staff estimates.

(Contd...)

⁴ Only one interaction dummy in a single model is used to avoid perfect multicollinearity in the interaction terms of GSDP growth and debt.

Chart 2: Output Gap and Primary Expenditure



Note: Primary expenditure is on X-axis and output gap is on Y-axis.
Sources: Budget documents of state governments; MOSPI; and RBI staff estimates.

influence discretionary spending adversely⁵. The other two dummies are not statistically significant.

Finally, there is an asymmetric response of states' spending to GSDP growth (Table 1; Chart 2). When actual output is above potential, states' decisions on spending have acyclical characteristics. On the other hand, when output is below potential, states' spending tends to get pro-cyclical, primarily by cutting spending on the capex front to accommodate for cyclical revenue shortfall.

To sum up, the prominent factors influencing states' discretionary spending decisions are debt and GSDP growth.

References:

Arena, Marco and Julio E. Revilla (2009). "Procyclical Fiscal Policy in Brazil - Evidence from the States". Policy Research Working Paper series No. 5144. The World Bank. December.

Reserve Bank of India. (2014). State Finances: A Study of Budgets of 2014-15.

..... (2019a). State Finances: A Study of Budgets of 2019-20.

Sturzenegger, Fredrico and Rogerio L.F.Werneck. (2006). "Fiscal Federalism and Pro-cyclical spending: The cases of Argentina and Brazil". *Economica La Plata*. Volume LII. No. 1-2.

5. 2020-21: Budget Estimates and Actual so far

2.19 For 2020-21, states have budgeted the combined GFD at 2.8 per cent of GDP; more than half of them have budgeted for revenue surpluses (Table II.6). As explained earlier, COVID-19 is likely to undermine fiscal targets and associated receipts for 2020-21 (BE). The crisis literature focuses on the operation of the scissor effects

- loss of revenues due to demand slowdown, coupled with higher expenditure associated with the pandemic (Blochliger *et al.*, 2010; OECD, 2020b). The duration of stress on state finances will likely be contingent upon factors like tenure of lockdown and risks of renewed waves of infections, all of which make traditional backward-looking tax buoyancy forecasting models unreliable.

⁵ This may be because of the indirect impact operating through reduced GSDP growth in such a year, resulting in lower revenues and in turn lower overall spending, possibly, outweighing the spending on natural calamities.

Table II.6: Deficit Indicators of State Governments - State-wise

(Per cent)

State	2017-18			2018-19			2019-20 (RE)			2020-21 (BE)		
	RD/ GSDP	GFD/ GSDP	PD/ GSDP	RD/ GSDP	GFD/ GSDP	PD/ GSDP	RD/ GSDP	GFD/ GSDP	PD/ GSDP	RD/ GSDP	GFD/ GSDP	PD/ GSDP
1	2	3	4	5	6	7	8	9	10	11	12	13
1 Andhra Pradesh	2.0	4.1	2.3	1.6	4.1	2.3	2.7	4.2	2.5	1.7	4.4	2.6
2 Arunachal Pradesh	-12.8	1.4	-0.7	-15.3	8.0	5.9	-12.8	3.1	0.8	-21.3	2.4	0.1
3 Assam	0.5	3.3	2.1	-2.1	1.5	0.3	-0.2	6.1	4.7	-2.3	2.4	0.9
4 Bihar	-3.2	3.1	1.1	-1.3	2.6	0.7	3.0	9.5	7.7	-2.8	2.9	1.1
5 Chhattisgarh	-1.2	2.5	1.4	-0.2	2.7	1.5	2.9	6.4	4.9	-0.7	3.2	1.6
6 Goa	-0.7	2.3	0.5	-0.5	2.5	0.6	-0.3	5.0	3.1	-0.4	5.3	3.3
7 Gujarat	-0.4	1.6	0.2	-0.2	1.8	0.4	-0.1	1.6	0.3	0.0	1.8	0.5
8 Haryana	1.6	2.9	1.1	1.5	3.0	1.1	1.8	2.8	0.9	1.6	2.7	0.8
9 Himachal Pradesh	-0.2	2.8	0.1	-1.0	2.3	-0.3	2.4	6.4	3.7	0.4	4.0	1.3
10 Jharkhand	-0.7	4.4	2.7	-2.0	2.1	0.5	-2.0	2.4	0.8	-0.5	2.2	0.7
11 Karnataka	-0.3	2.3	1.3	0.0	2.5	1.5	0.0	2.3	1.2	0.0	2.6	1.3
12 Kerala	2.4	3.8	1.7	2.2	3.4	1.3	2.0	3.0	0.9	1.6	3.0	1.0
13 Madhya Pradesh	-0.6	3.1	1.6	-1.1	2.7	1.1	0.3	3.6	2.1	1.8	5.0	3.3
14 Maharashtra	-0.1	1.0	-0.4	-0.5	0.9	-0.4	1.1	2.7	1.5	0.3	1.7	0.6
15 Manipur	-4.2	1.3	-0.9	-2.9	3.3	1.2	-0.9	8.5	6.8	-5.6	3.8	2.2
16 Meghalaya	-2.9	0.5	-1.5	1.6	6.1	4.1	-2.0	3.6	1.6	-2.3	3.8	1.7
17 Mizoram	-9.1	1.7	-0.1	-7.9	1.8	-0.1	2.8	10.4	8.7	-3.3	2.3	0.7
18 Nagaland	-3.4	1.8	-0.9	-1.9	4.0	1.1	1.9	8.0	5.1	-3.0	4.0	1.1
19 Odisha	-3.0	2.1	1.0	-2.9	2.1	0.9	-1.2	3.4	2.2	-1.6	3.0	1.8
20 Punjab	2.0	2.7	-0.6	2.5	3.1	0.0	2.2	3.0	-0.1	1.2	2.9	0.0
21 Rajasthan	2.2	3.0	0.7	3.1	3.7	1.4	2.7	3.2	0.8	1.1	3.0	0.7
22 Sikkim	-4.1	1.8	0.4	-2.4	2.2	0.7	-0.2	3.7	2.1	-1.7	2.8	1.3
23 Tamil Nadu	1.5	2.7	0.9	1.4	2.9	1.1	1.4	3.0	1.3	1.0	2.8	1.1
24 Telangana	-0.5	3.5	2.1	-0.5	3.1	1.7	0.0	2.3	0.8	-0.4	3.0	1.7
25 Tripura	0.7	4.7	2.7	-0.3	2.7	0.6	3.8	6.5	4.4	0.4	3.5	1.4
26 Uttar Pradesh	-0.9	1.9	-0.1	-1.7	2.1	0.2	-1.5	2.8	0.9	-1.4	2.7	0.8
27 Uttarakhand	0.9	3.6	1.8	0.4	3.0	1.2	0.0	2.5	0.6	0.0	2.6	0.6
28 West Bengal	1.0	3.0	0.1	1.0	3.1	0.4	0.5	2.7	0.2	0.0	2.2	-0.1
29 Jammu and Kashmir	-5.5	2.0	-1.4	3.1	8.5	5.1	-4.4	7.1	5.0	-12.8	5.3	1.7
30 NCT Delhi	-0.7	0.0	-0.4	-0.8	-0.3	-0.7	-1.1	-0.1	-0.4	-0.8	0.5	0.2
31 Puducherry	-0.6	0.6	-1.5	0.0	0.8	-1.1	-0.3	0.8	-1.0	1.0	1.8	0.2
All States and UTs	0.1	2.4	0.7	0.1	2.4	0.8	0.7	3.2	1.5	0.0	2.8	1.1

RE: Revised Estimates. BE: Budget Estimates. RD: Revenue Deficit. GFD: Gross Fiscal Deficit. PD: Primary Deficit. GSDP: Gross State Domestic Product.

Note: Negative (-) sign in deficit indicators indicates surplus.

Source: Budget documents of state governments.

Crisis hampers compliance culture as countries defer filing/payment dates to enhance cash flows in the hands of taxpayers or to encourage social distancing (IMF, 2020 a and d⁶). Under such circumstances, uncertainty around central forecasts has to be captured either through fan charts (as in case of UK) or by building up forward-looking scenarios.

Receipts

2.20 In anticipation of a recovery of economic activity in 2020-21, states budgeted for higher tax revenue collection, with broad-based increases in all tax components. Developments in the first half of the year have completely belied these expectations. It is increasingly certain that the slump in economic activity due to COVID-19 led lockdown will adversely impact states' revenue collections. The implied tax buoyancy for 2020-21 (based on 2019-20 PA) is higher than budgeted on the basis of 2019-20 RE and much higher than previous year's average (Table II.7).

2.21 The major head under states' own tax revenue, viz., taxes on commodities and services would be impacted the most. SGST plummeted by 47.2 per cent during Q1:2020-21 - sharper than the overall GST decline - with variations contingent upon state-specific spatial features.

During Q2, however, the decline moderated to 6.4 per cent.

2.22 Stamp duties, which are a major source of revenue under states' direct taxes, are also likely to witness a shortfall, consequent upon contraction in construction activity, reverse migration of labourers and social distancing norms. Furthermore, revenue specific measures, viz., extension of deadlines for payment of taxes to provide relief to businesses and citizens may further exacerbate the already worsening revenue situation of states. Monthly analysis of the data for April - June 2020 gives a glimpse of the deterioration, with revenue collections having seen the steepest year on year (y-o-y) fall across the majority of states, though with unlocking in phases, July 2020 data available for few states shows marginal improvement (Chart II.9).

2.23 Nonetheless, in order to garner some additional revenues during these unprecedented times, 22 states/UTs have hiked their duties on petrol and diesel, while 25 states/UTs have hiked duties on alcohol. The consequent rise in petrol /diesel prices is in the range of 60 paise to ₹8, while for alcohol, it is in the range of 10-120 per cent, on an average basis (Chart II.10a and b). This is expected to provide a revenue gain in the

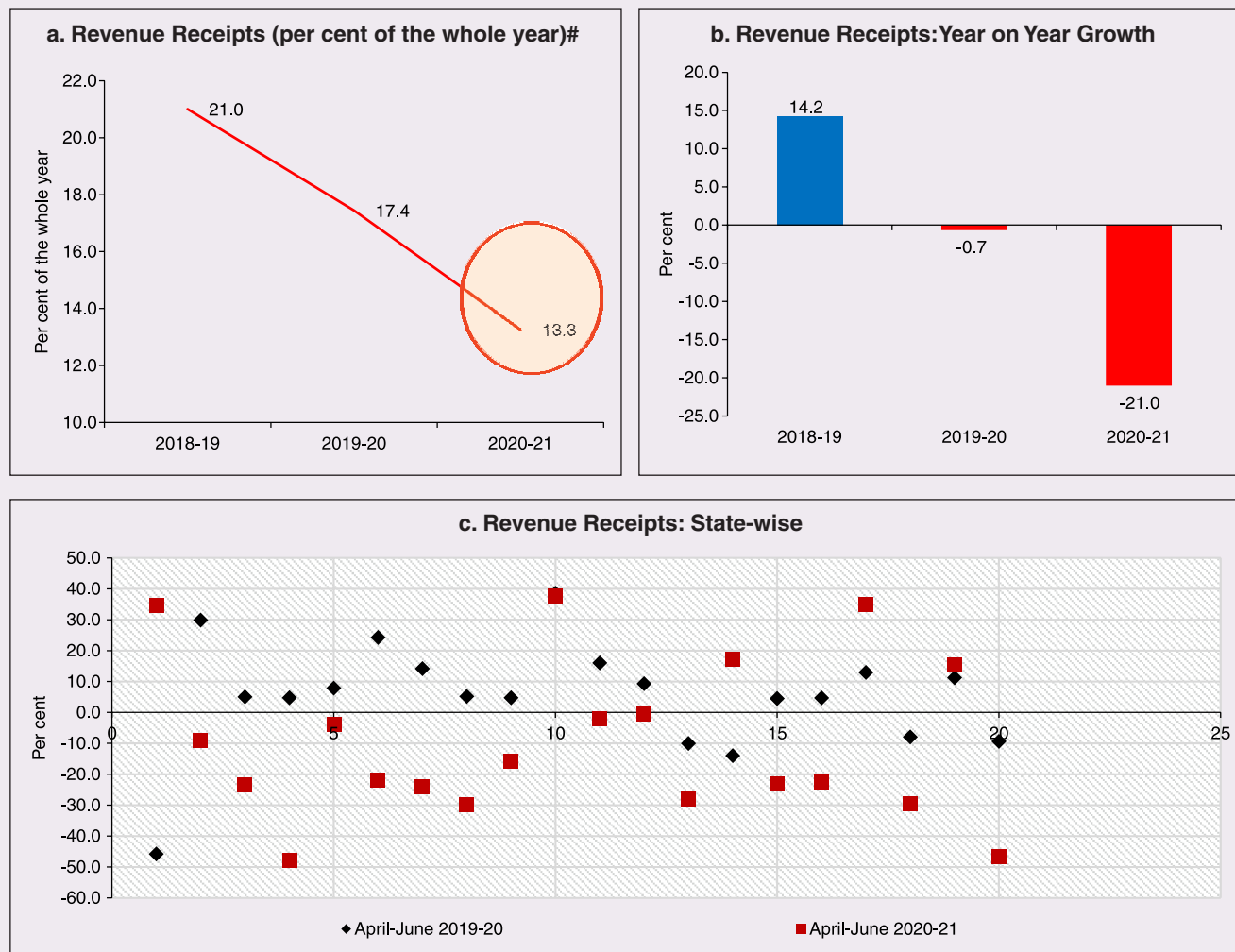
Table II.7: Tax Buoyancy of States' Own Tax Revenue

	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21 BE
1	2	3	4	5	6	7	8	9
Based on 2019-20 RE							1.49	1.18
As per Actual/ PA	0.68	0.83	0.85	0.65	1.75	0.69	0.92	1.61

Sources: Budget documents of state governments; CAG; and RBI staff estimates.

⁶ Other common tax policy measures include waiver of certain kinds of taxes/fees, coupled with acceleration of tax refunds.

Chart II.9: States' Revenue Receipts: (April-June)



#: Pertains to 20 states accounting for about 80 per cent of total revenue receipts.

Source: CAG.

range of 0.03 to 0.35 per cent of GSDP. Petroleum and alcohol, on an average, account for 25-35 per cent of the own tax revenue of states (RBI, 2019a) (Chart II.10c).

2.24 Another major source of revenue for states is tax transfers from the centre from the divisible

pool. Of the total revenue receipts of states, central tax transfers comprise 25 to 29 per cent, while own tax revenues have a share of 45 to 50 per cent. Given that a large shortfall in the divisible pool is highly likely in 2020-21, central tax transfers to states could fall by a significant margin. Automatic

Chart II.10: Petrol and Diesel Revenue: Trends



Source: RBI staff estimates based on data from state governments.

stabilisers inherent in states' own tax revenue and central tax transfers, *albeit* low, could be important

in low growth phases, when both components are taken together (Box II.3).

**Box II.3:
Automatic Stabilisers in States' Own Tax Revenue and Transfers**

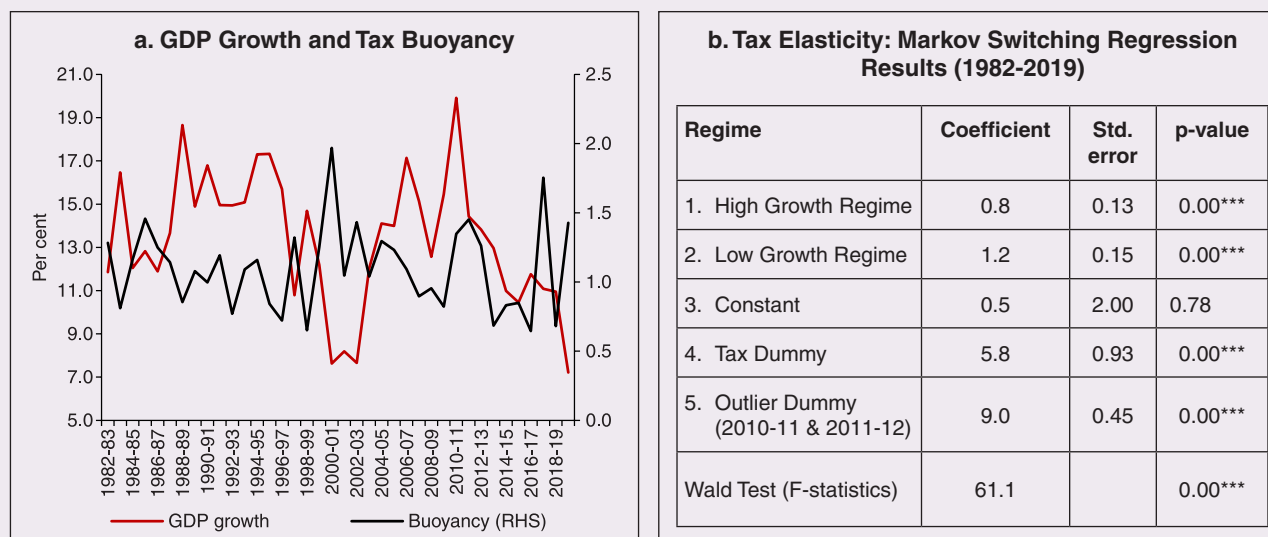
Automatic stabilisers for own tax revenue and central tax transfers are calculated on the basis of tax elasticities and output gap estimates (following Fedelino *et al.*, 2009). The elasticity of central tax transfers with respect to GDP captures the dynamics of tax performance of the Union Government of India and is generally higher than the states' own tax elasticity in view of the progressive nature of the taxes in the centre's kitty⁷.

Regressing states' own tax revenue growth on GDP growth in a co-integrated framework with suitable dummies for policy changes yields a long run elasticity of about 1.0. In view of statistical evidence of regime shifts revealed by the Wald test, short run tax elasticities are estimated by applying Markov switching regressions (Hamilton, 1989), assuming variance to be common for both the regimes.

(Contd...)

⁷ For central revenues, while the long run estimate is placed at 1.2-1.5, the impact of large GDP growth changes takes the elasticity to almost 2.0 (Chinoy, 2020; Ghosh and Misra, 2016).

Chart 1: States' Own Tax Revenue: High Growth and Low Growth Phases



Notes: 1. The correlation between two series in left chart is -0.35, significant at 5 per cent level.
 2. ***: Significant at 1 per cent level.
 3. The null of Wald test is coefficients of both regimes are same.
Source: RBI staff estimates.

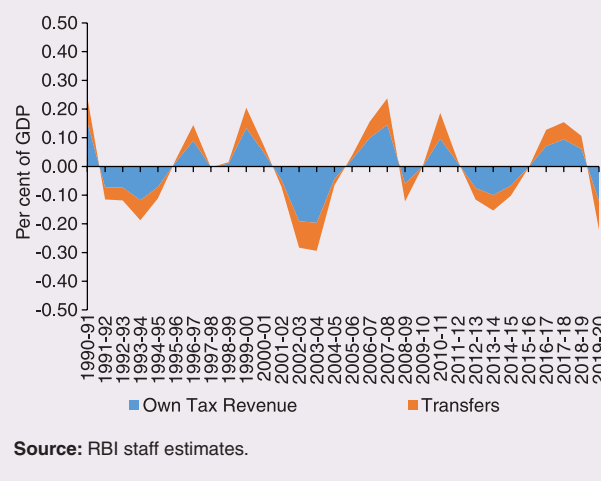
The implementation of VAT and GST are captured through dummies. The results indicate two distinct elasticities for the high and low growth regimes, with higher growth associated with lower tax elasticity and *vice versa* (Chart 1). With the pandemic expected to produce negative nominal GDP growth, not part of estimation series, tax elasticity could be even higher⁸.

The overall automatic stabiliser for states, combining both own tax revenue and the central tax revenues component, *albeit* low in the range of 10-30 bps of GDP, is observed to be significant during low growth years (Chart 2).

References

Fedelino, A., Anna I., and Mark H. 2009. Cyclically Adjusted Balances and Automatic Stabilizers: Some Computation and Interpretation Issues. IMF Technical Notes and Manuals.
 Hamilton, J. D. (1989). "A new approach to the economic analysis of nonstationary time series and the business cycle" *Econometrica*. 57: 357-384.

Chart 2: Automatic Stabiliser for Own Tax Revenues and Transfers



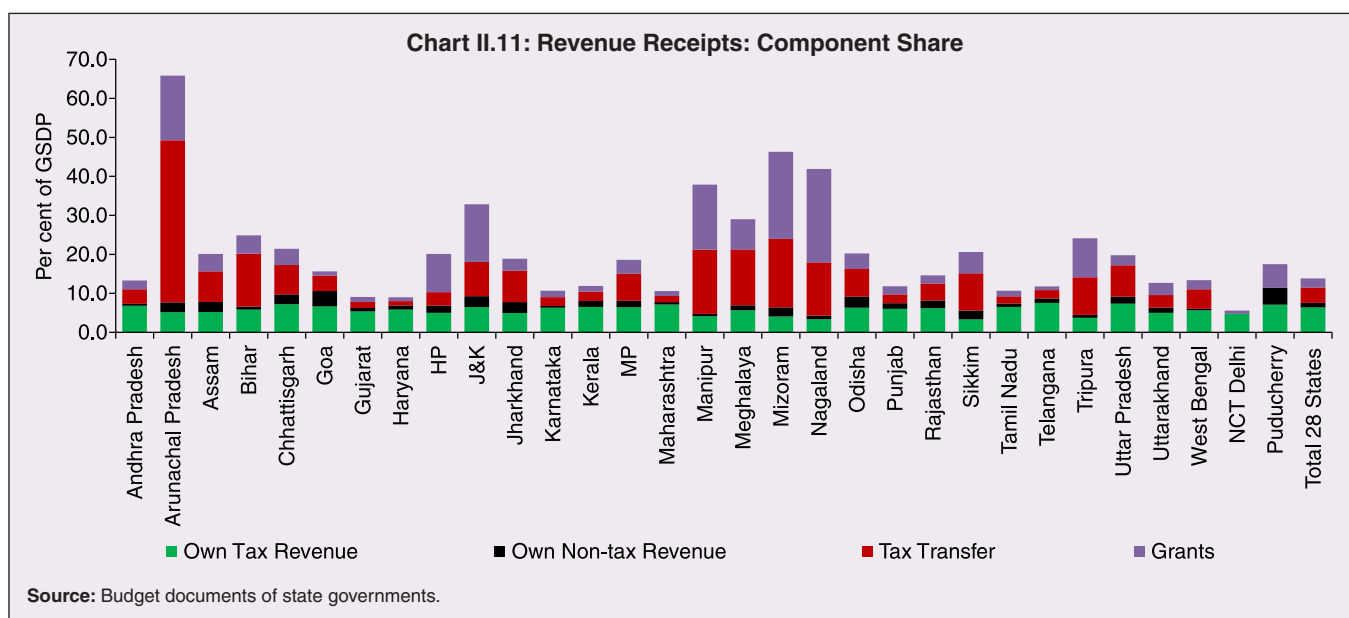
Source: RBI staff estimates.

2.25 Revenue receipts are likely to be cushioned by revenue deficit grants, which compensate for deficits that prevail even after devolution, and the GST compensation cess, which states

are stipulated to receive if their revenues fall below a threshold in any particular year (GST Compensation Cess Act, 2017). The share of grants is particularly high for special category

⁸ Use of simple tax buoyancy or macro elasticities based on traditional approaches under unprecedented periods of pandemic with negative nominal GDP growth will likely lead to an underestimation of the revenue decline (IMF, 2020d).

Fiscal Position of State Governments



states, mainly due to higher revenue deficit grants (Chart II.11). It may be noted that with an increase in revenue deficit grants by ₹44,340 crores in the additional supplementary demand for grants announced by the centre in September 2020 on top of the budgeted ₹30,000 crore on February 1, 2020, it has released the full quantity of revenue deficit grants as recommended by the Fifteenth Finance Commission (FC-XV). Accordingly, the revenue deficit grants in 2020-21 are more than double the average of the previous few years.

2.26 As regards GST compensation cess, states have received the full GST compensation in the first three years of GST implementation. Unlike 2017-18 and 2018-19, for 2019-20, amount transferred to states was higher than collections during the year (Table II.8). Nevertheless, the high uncertainty associated with the quantum of GST cess collections by the centre, coupled with ambiguity around the timing and amount of

compensation transfer⁹, has raised concerns. In 2020-21, while ₹ 65,000 cess collections are expected, the Centre has decided to borrow an additional ₹1.1 lakh crore in tranches in H2:2020-21 to provide compensation to states for shortfall in their revenue in 2020-21 arising on account of GST implementation. The amount so borrowed will be passed on to states as a loan, *in lieu* of GST compensation cess release, and will reflect as capital receipts of state governments, going into the financing of respective fiscal deficits¹⁰.

Table II.8: GST Compensation Cess

(₹ crore)			
	2017-18	2018-19	2019-20
1	2	3	4
Compensation Cess Collected	62,612	95,081	95,444
Compensation Cess Transferred to States	48,785	81,141	1,65,302

Source: Press Information Bureau; Lok Sabha Unstarred Question and Dept. of Revenue, Ministry of Finance.

⁹ Compensation for the months of August – September 2019 was released with a lag in the month of December 2019; in February 2020 for the months of October – November 2019 and in June 2020 for the months of December – February 2020 and in July 2020 for the month of March 2020.

¹⁰ The differential reporting and accounting practices with regard to GST compensation cess – under states' own tax revenue in 2018-19; under grants from centre in 2019-20; and partly grants and party loans from centre in 2020-21 prevents meaningful comparison across years.

Expenditure

2.27 States have budgeted for reduction in revenue expenses in 2020-21 *vis-à-vis* 2019-20 RE, and a higher capital expenditure in 2020-21 *vis-à-vis* 2019-20 RE, mostly in social services

under capital outlay. While higher spending is budgeted in education, water supply and sanitation, rural and urban development, spending on energy and transport is expected to be curtailed (Table II.9).

Table II.9: Variation in Major Components

(₹ lakh crore)

Item	2016-17	2017-18	2018-19	2019-20 (RE)	2020-21 (BE)	Percent Variation	
						2019-20 RE over 2018-19	2020-21 BE over 2019-20
1	2	3	4	5	6	7	8
I. Revenue Receipts (i+ii)	20.86	23.21	26.20	29.40	33.27	12.2	13.2
(i) Tax Revenue (a+b)	15.54	17.36	19.62	20.43	23.16	4.2	13.3
(a) Own Tax Revenue	9.46	11.30	12.15	13.40	14.98	10.3	11.8
<i>of which: Sales Tax</i>	6.10	4.02	2.89	3.11	3.42	7.7	10.1
(b) Share in Central Taxes	6.08	6.05	7.47	7.03	8.17	-5.8	16.2
(ii) Non-Tax Revenue (a+b)	5.32	5.86	6.59	8.96	10.12	36.1	12.9
(a) States' Own Non-Tax Revenue	1.71	1.80	2.19	2.39	2.68	9.3	12.1
(b) Grants from Centre	3.61	4.06	4.40	6.57	7.43	49.4	13.1
II. Revenue Expenditure	21.22	23.40	26.38	30.76	33.27	16.6	8.2
<i>of which:</i>							
(i) Development Expenditure	13.66	14.66	16.36	19.46	20.68	19.0	6.2
<i>of which: Education, Sports, Art and Culture</i>	3.95	4.25	4.68	5.40	5.89	15.4	9.0
Transport and Communication	0.48	0.51	0.51	0.57	0.64	11.8	12.3
Power	1.33	1.16	1.29	1.55	1.33	20.1	-14.5
Relief on account of Natural Calamities	0.28	0.16	0.30	0.49	0.35	63.3	-28.6
Rural Development	1.26	1.32	1.38	1.73	1.89	25.8	9.4
(ii) Non-Development Expenditure	6.99	8.06	9.22	10.36	11.64	12.3	12.4
<i>of which: Administrative Services</i>	1.47	1.62	1.84	2.20	2.56	19.5	16.4
Pension	2.27	2.75	3.15	3.55	3.86	12.7	8.6
Interest Payments	2.55	2.93	3.19	3.49	3.89	9.3	11.4
III. Net Capital Receipts #	5.61	4.55	5.06	6.50	6.26	28.6	-3.9
<i>of which: Non-Debt Capital Receipts</i>	0.16	0.40	0.42	0.62	0.20	47.6	-67.7
IV. Capital Expenditure \$	5.17	4.31	4.87	5.78	6.46	18.6	11.8
<i>of which: Capital Outlay</i>	3.96	3.94	4.40	5.31	5.98	20.6	12.7
<i>of which: Capital Outlay on Irrigation and Flood Control</i>	0.83	0.83	0.93	0.92	1.05	-1.1	14.1
Capital Outlay on Energy	0.53	0.46	0.43	0.54	0.31	25.5	-42.0
Capital Outlay on Transport	0.96	0.93	1.14	1.33	1.33	16.7	0.0
<i>Memo Item:</i>							
Revenue Deficit	0.36	0.19	0.18	1.37	0.00	661.1	-100.0
Gross Fiscal Deficit	5.36	4.10	4.63	6.52	6.26	40.8	-4.0
Primary Deficit	2.81	1.17	1.44	3.04	2.38	111.1	-21.7

RE: Revised Estimates. BE: Budget Estimates.

: It includes following items on net basis - Internal Debt, Loans and Advances from the Centre, Inter-State Settlement, Contingency Fund, Small Savings, Provident Funds *etc.*, Reserve Funds, Deposits and Advances, Suspense and Miscellaneous and Appropriation to Contingency Fund and Remittances.

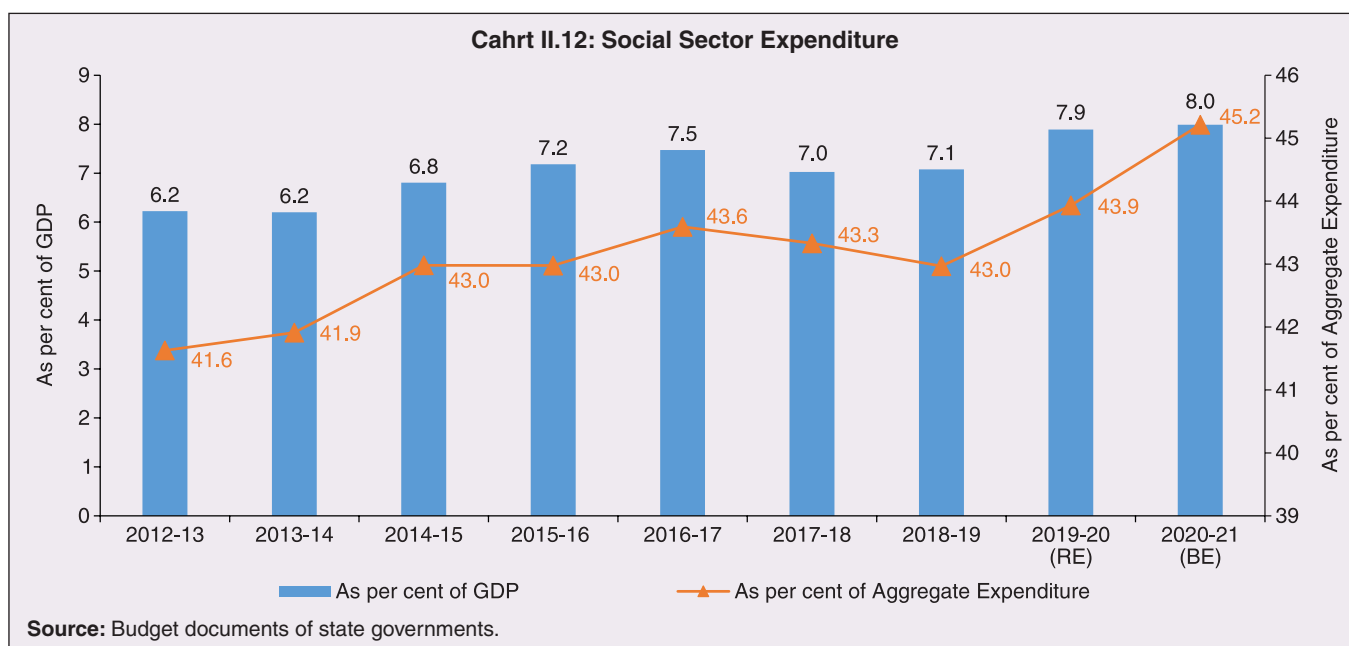
\$: Capital Expenditure includes Capital Outlay and Loans and Advances by State Governments.

Notes: 1. Negative (-) sign in deficit indicators indicates surplus.

2. Also see Notes to Appendices.

Source: Budget documents of state governments.

Fiscal Position of State Governments



2.28 Social sector expenditure has been increasing since 2018-19 and is budgeted to reach 8.0 per cent of GDP in 2020-21 (Chart II.12).

2.29 In social sector spending, the share of urban development and welfare of SCs, STs

and OBCs has seen a clear rise, while all other expenditures are either declining or are stagnant (Table II.10).

2.30 The pandemic has necessitated fiscal policy actions to boost aggregate demand.

**Table II.10: Composition of Expenditure on Social Services
(Revenue and Capital Accounts)**

(Per cent of expenditure on social services)

Item	2015-16	2016-17	2017-18	2018-19	2019-20 (RE)	2020-21 (BE)
1	2	3	4	5	6	7
Expenditure on Social Services (a to l)	100.0	100.0	100.0	100.0	100.0	100.0
(a) Education, Sports, Art and Culture	44.0	43.0	42.9	41.8	40.8	40.3
(b) Medical and Public Health	11.6	11.8	12.3	12.3	12.1	12.1
(c) Family Welfare	2.0	1.9	2.0	2.1	2.0	2.0
(d) Water Supply and Sanitation	6.1	6.5	7.0	6.6	6.5	6.5
(e) Housing	2.9	3.2	3.8	3.5	3.2	4.0
(f) Urban Development	6.5	8.0	7.6	7.6	8.4	9.7
(g) Welfare of SCs, STs and OBCs	7.0	6.9	7.4	6.9	8.0	8.4
(h) Labour and Labour Welfare	0.9	0.8	0.9	1.0	1.0	1.0
(i) Social Security and Welfare	11.4	10.9	10.4	11.9	10.9	9.9
(j) Nutrition	2.6	2.4	2.3	2.1	2.2	2.2
(k) Expenditure on Natural Calamities	3.9	2.9	1.6	2.6	3.6	2.3
(l) Others	1.1	1.6	1.8	1.6	1.3	1.5

RE: Revised Estimates.

BE: Budget Estimates.

Source: Budget documents of state governments.

Alongside the centre, state governments have been proactive in undertaking policy measures to contain the impact of the pandemic (Table II.11). The financial supports are in the form of insurance cover for doctors and nurses; purchase of medical equipment and tools; hospital arrangements with a sufficient number of beds for COVID-19 patients; providing food free of cost; cash for those who are not availing of any government schemes; cash for registered construction workers; remitting a fixed sum for those trapped abroad in other states; and advance salary and pension payments. Quantifying the various kinds of policy measures,

the fiscal stimulus works to about 0.3 per cent of GDP¹¹.

2.31 Monthly data on revenue expenditure during April-June 2020 show no significant increase when compared with corresponding months of previous few years (Chart II.13). Although states generally receive and spend about one fifth of their budgeted allocations during Q1 each year, they have maintained their spending at previous years' levels in 2020-21, despite receiving only one-eighth of their budgeted revenues.

Table II.11: State-wise Policy Measures to Contain the Adverse Impacts of Pandemic

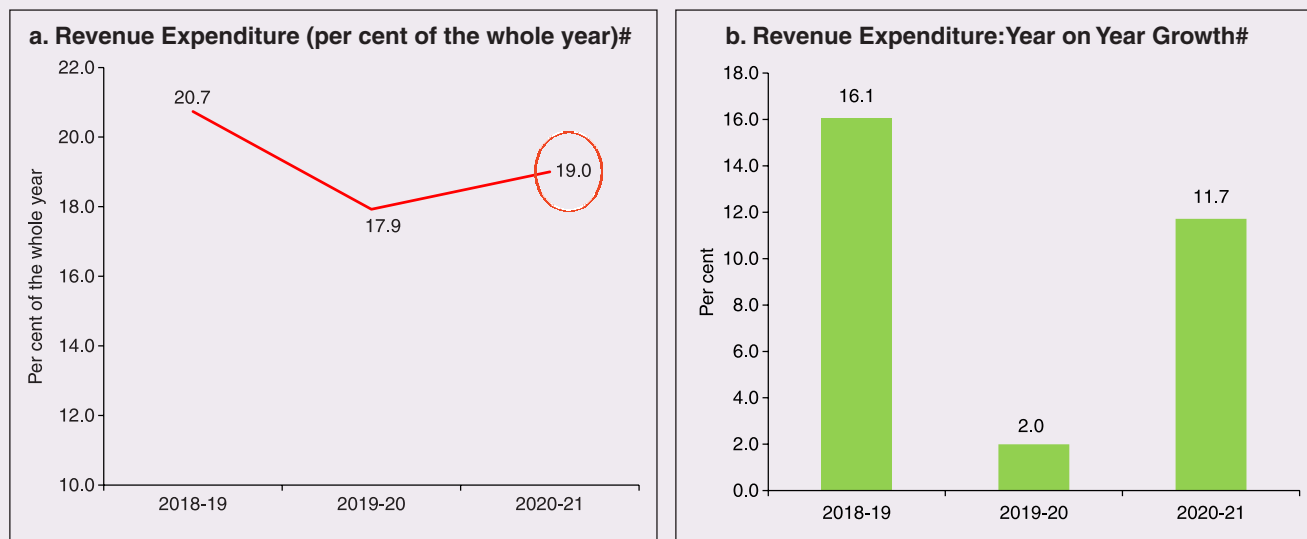
Measure	State Specific Effort
Health Expenditure	<ul style="list-style-type: none"> • Fund for scaling up health infrastructure (screening facilities, lab equipments, ventilators) by Andhra Pradesh, Jharkhand, UP, Uttarakhand, J&K, MP (telemedicine facility also) and Chattisgarh • Assam announced to bear the treatment cost of COVID-19 patients • Odisha earmarked a separate amount to augment its Public Health Response Fund • Rajasthan, Tamil Nadu, West Bengal and Sikkim have provided additional funding to their health departments • UP created a Corona Care Fund for setting up testing facilities and provision made for providing medical facilities. • West Bengal enhanced insurance coverage for medical staff. Tamil Nadu has set up a corpus fund under a new health insurance scheme for the treatment of government employees and pensioners infected by COVID-19. • Tripura flagged off emergency life support ambulances. Tamil Nadu has also purchased additional ambulances. • Gujarat distributed free N-95 masks to doctors. Tamil Nadu introduced a scheme for distributing free face masks to all family card holders in districts other than Chennai through fair price shops. • Karnataka has announced various incentives for ASHA workers and other frontline workers of COVID-19.
Social Assistance to Vulnerable Sections	Assam, Bihar, Kerala, Andhra Pradesh, Odisha, Punjab, Sikkim, Tamil Nadu, Telangana, UP, Himachal Pradesh, West Bengal, Rajasthan, Jammu and Kashmir, Gujarat, Karnataka and Delhi
Free Ration	Bihar, Jharkhand, Kerala, Odisha, Punjab, Sikkim, Tamil Nadu, Telangana, UP, Manipur, Rajasthan, Jammu and Kashmir, Delhi, West Bengal, Gujarat, Andhra Pradesh, MP, Karnataka and Chhattisgarh
Assistance to Construction Workers, Migrant Labourers and Daily Wage Workers	Bihar, Punjab, Odisha, Sikkim, Tamil Nadu, Telangana, Uttarakhand, UP, West Bengal, Himachal Pradesh, Mizoram, Delhi, Andhra Pradesh, Karnataka and Jammu and Kashmir

Note: The list may not be exhaustive as it is based on information received from states.

Source: State governments.

¹¹ While this estimate is based on information provided by most states, this could be an underestimate as many states have not explicitly quantified their stimulus/support measures.

Chart II.13: Revenue Expenditure (April-June)



#: Pertains to 20 states.

Source: CAG.

2.32 This can be also attributed to re-prioritization of expenditure by curtailment of some revenue expenditure allocations by various state governments viz., DA freeze; deferment of part or full salaries and wages and deduction from salary

(Table II.12). On the whole, states' fiscal response to COVID-19 should reflect in a larger increase in revenue expenditure in 2020-21 than budgeted. These spendings coupled with revenue receipts shortfall are likely to convert revenue surpluses as budgeted in 2020-21 into large deficits.

Table II.12: Expenditure Rationalisation by States During COVID-19

No.	Type of Revenue Expenditure	State
1	2	3
1.	Deferment of part or full of salary, wages and bills	Andhra Pradesh, Assam, Mizoram, Odisha, and Telangana
2.	Deduction of salary	Maharashtra
3.	Freezing of DA	Karnataka
4.	Suspension of encashment facility of earned leave	Karnataka, Kerala and Tamil Nadu
5.	Rationalisation of travel and vehicle expenses, establishment and other expenses	Assam and Odisha

Note: The list may not be exhaustive as it is based on information received from states.

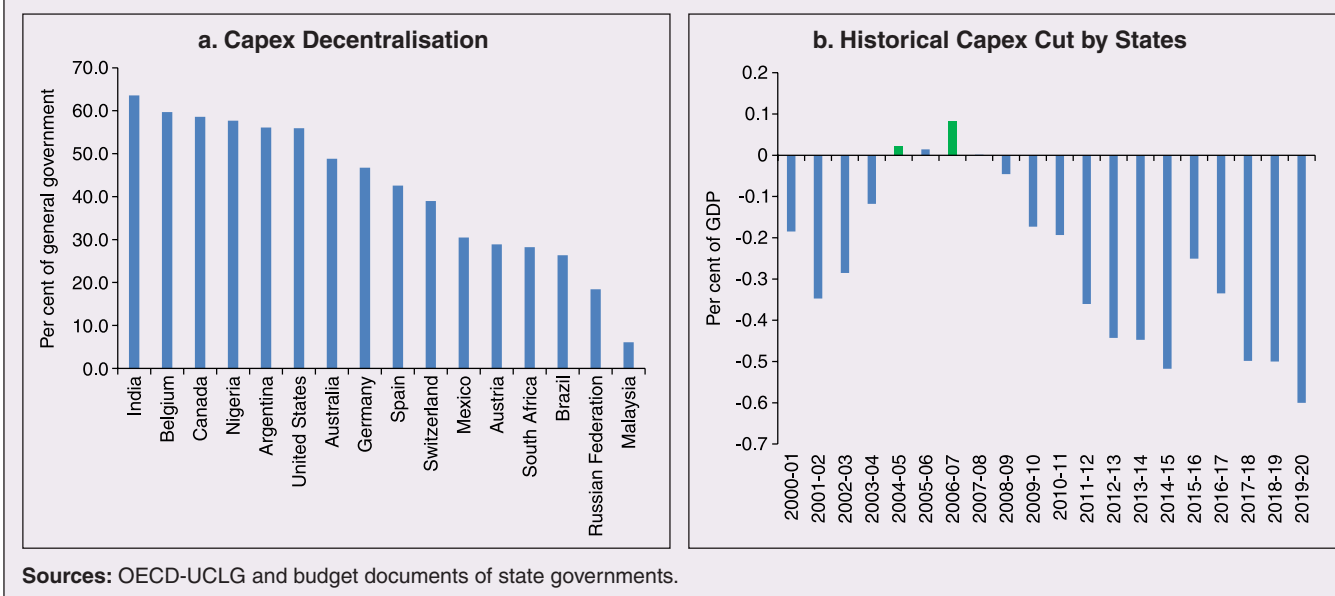
Source: State governments.

2.33 Globally, India has the highest decentralisation of capital expenditure¹² (Chart II.14a).

2.34 Capital spending in India is not completely executed, however, and often falls short of the budgeted targets, as explained earlier. Moreover, inefficiency leads to a substantial waste of funds spent on public infrastructure across many Emerging market economies (IMF, 2020a). States have a tendency to cut back their capital expenditure by almost 0.5 per cent of GDP, on an average (Chart II.14b), to meet FRL- prescribed fiscal deficit targets. A similar tendency relative to

¹² Capex decentralisation is computed by taking the ratio of states' capex to general government capex for countries with federal structures.

Chart II.14: Capex Trends



BE can be expected in 2020-21, particularly since states have not been able to start much capex in H1 because of lockdown (in Q1) and monsoons (in Q2). As in revenue expenditure, one may see major re-adjustments and re-prioritisation as well. While the obvious focus in H1:2020-21 seems to be on capex in health and education sectors in response to the pandemic, other critical sectors like roads and construction may draw attention in H2. To drive capex, centre also recently announced a special interest free 50-year loan to states for capital expenditure of ₹12,000 crore to be spent till March 2021, *albeit* it represents a small fraction of budgeted capex of ₹ 6.5 lakh crores.

6. Market Borrowings¹³ and Projected GFD

2.35 On average, market borrowings financed slightly more than half of the consolidated fiscal

deficit of states till 2016-17. Since 2017-18, however, the share of market borrowings has increased rapidly and is budgeted to reach close to 90 per cent in 2020-21 BE (Table II.13). As per 2018-19 actual, states with GFD equal to or less than 3 per cent of GSDP financed it mostly through market borrowings. States with GFD-GDP ratios of more than 3 per cent have relied on other sources, *viz.*, withdrawal from public accounts like provident funds, deposit and advances, and cash withdrawals, being constrained by the provisions of Article 293 of the constitution¹⁴.

2.36 In a longer-term perspective, borrowing by states/UTs - gross and net - are fast catching up with those of the centre, with the drying up of all other sources of financing. The share of states' market borrowing in general government

¹³ The Reserve Bank manages the domestic debt of the state governments *vide* statute under section 21A of the Reserve Bank of India Act, 1934. The bilateral agreements of the 28 state governments and that of the two union territories fall under this Act.

¹⁴ Under this article, a state can borrow within the territory of India upon the security of the Consolidated Fund of the state within such limits, as fixed by central government as long as there is still outstanding any part of a loan which has been made to the state by the Government of India or by its predecessor Government, or in respect of which a guarantee has been given by the Government of India or by its predecessor Government.

Fiscal Position of State Governments

Table II.13: Financing Pattern of Gross Fiscal Deficit

Item	2016-17	2017-18	2018-19	2019-20 (RE)	2020-21 (BE)	2018-19# (Per cent of GSDP/GDP)		
						GFD≤3.0 per cent	GFD>3.0 per cent	All States/ UTs
1	2	3	4	5	6	7	8	9
Financing (1 to 8)	100.0	100.0	100.0	100.0	100.0	2.1	3.6	2.4
1. Market Borrowings	65.7	84.0	80.6	74.9	89.5	1.8	2.7	2.0
2. Loans from centre	1.0	1.1	1.9	1.7	2.8	0.0	0.1	0.0
3. Special Securities issued to NSSF/Small Savings	-6.0	-7.9	-7.3	-4.9	-5.2	-0.2	-0.2	-0.2
4. Loans from LIC, NABARD, NCDC, SBI and Other Banks	8.1	3.1	3.9	2.9	4.0	0.1	0.0	0.1
5. Provident Fund	7.4	8.2	10.3	5.2	5.5	0.2	0.5	0.3
6. Reserve Funds	3.9	0.9	3.8	4.5	2.4	0.1	0.1	0.1
7. Deposits and Advances	7.9	15.6	11.1	1.8	3.0	0.2	0.4	0.3
8. Others	11.9	-5.1	-4.3	13.9	-2.0	-0.1	0.0	-0.1

RE: Revised estimates. BE: Budget estimates.

NSSF: National Small Savings Fund; LIC: Life Insurance Corporation of India; NCDC: National Co-Operative Development Corporation; SBI: State Bank of India; NABARD: National Bank for Agriculture and Rural Development

#: Excludes Delhi and Puducherry.

Notes: 1. See Notes to Appendix Table 9.

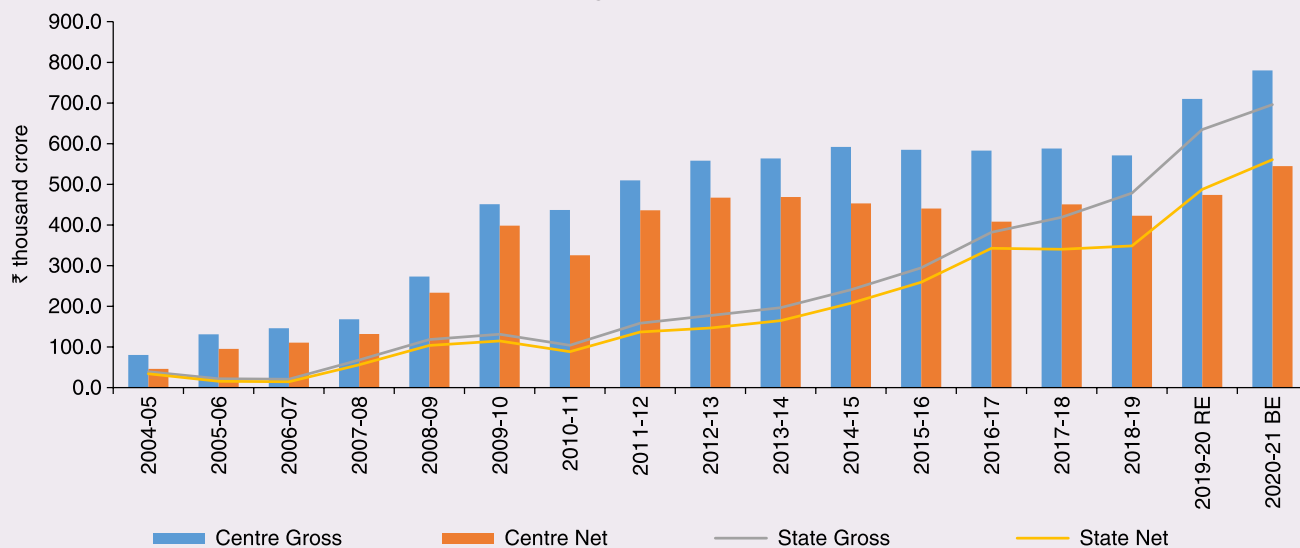
2. 'Others' includes Compensation and Other Bonds, Loans from Other Institutions, Appropriation to Contingency Fund, Inter-State Settlement, Contingency Fund, Suspense and Miscellaneous, Remittance and Overall Surplus/Deficit.

Source: Budget documents of state governments.

borrowings has more than doubled in the last five years, also necessitated by rising redemptions (Chart II.15).

2.37 While net borrowings of the states/UTs increased by about 40 per cent during 2019-20, gross market borrowings at ₹6.3 lakh

Chart II.15: Market Borrowings of Centre and States - Gross and Net



Note: The centre's and states' borrowings for 2020-21 in this Chart are based on BE. This does not incorporate the increase in borrowings in response to the COVID-19 pandemic.

Source: Reserve Bank of India.

Table II.14: Market Borrowings of State Governments

(₹ crore)

Item	2017-18	2018-19	2019-20	2020-21*
1	2	3	4	5
Maturities during the year	78,819	1,29,680	1,47,067	54,607
Gross sanction under Article 293(3)	4,82,475	5,5,0071	7,12,744	5,77,255
Gross amount raised during the year	4,19,100	4,78,323	6,34,521	3,53,596
Net amount raised during the year	3,40,281	3,48,643	4,87,454	2,98,989
Amount raised during the year to total Sanctions (per cent)	87	87	89	61
Weighted Average Yield of SDLs	7.67	8.32	7.24	6.43
Weighted Average Spread over corresponding G-Sec (bps)	59	65	55	53
Average Inter- State Spread (bps)	6	6	6	9

*: As on September 30, 2020.

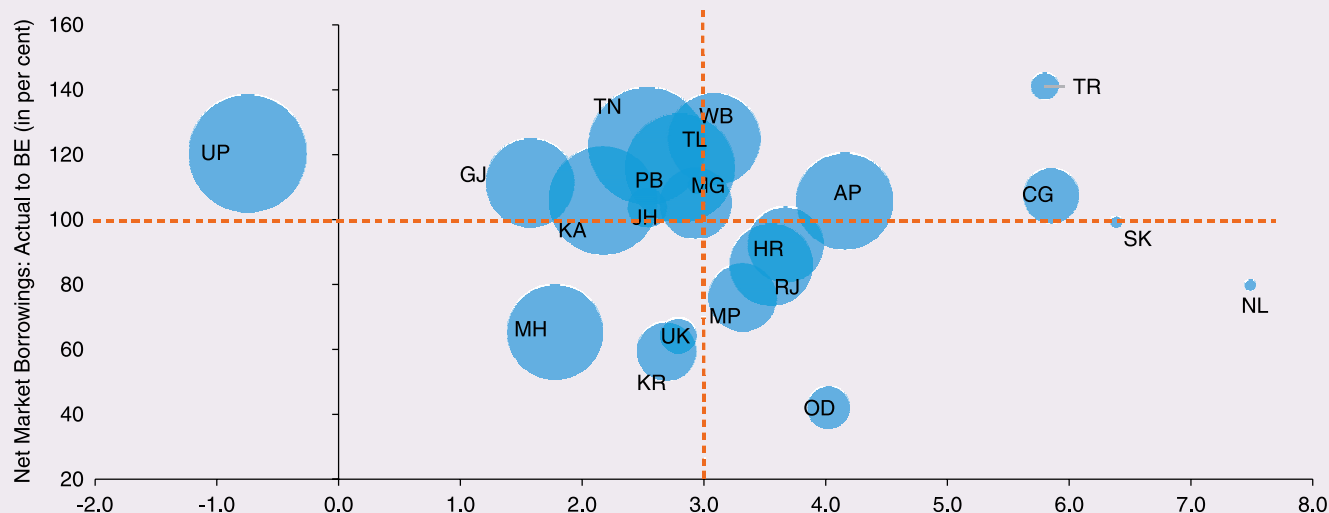
Source: Reserve Bank of India.

crore increased by 32.7 per cent, one of the highest in the recent past (Table II.14). While states like Odisha and Haryana have been pragmatic in trying to meet their higher fiscal deficits by using their own rainy funds without recourse to higher permissible market borrowings, there are states like Gujarat and Punjab which have over-borrowed

despite consolidation, with Uttar Pradesh being an extreme case - it has borrowed above 20 per cent of the budgeted amount, despite registering a fiscal surplus as against a budgeted deficit in 2019-20 (Chart II.16).

2.38 For 2020-21, states had budgeted a gross borrowing of ₹7 lakh crore. Under the *Aatma*

Chart II.16: GFD-GSDP Ratio and Market Borrowing Gap (Actual to BE): 2019-20



AP: Andhra Pradesh, CG: Chhattisgarh, HR: Haryana, KA: Karnataka, KR: Kerala, MH: Maharashtra, MG: Meghalaya, MP: Madhya Pradesh, NL: Nagaland, OD: Odisha, PB: Punjab, RJ: Rajasthan, SK: Sikkim, TN: Tamil Nadu, TL: Telangana, TR: Tripura, UP: Uttar Pradesh, UK: Uttarakhand, WB: West Bengal.

Note: Size of bubble represents size of net market borrowings.

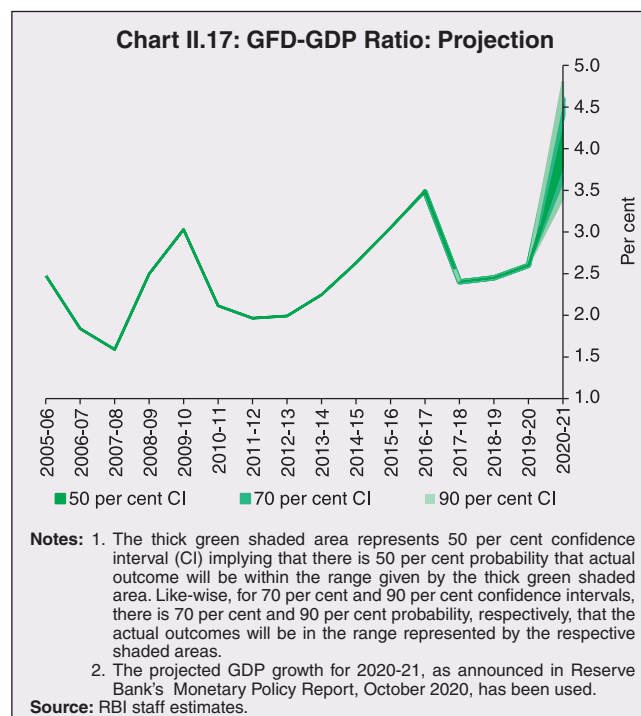
Sources: CAG and budget documents of state governments.

Nirbhar Package in May 2020, states are allowed to increase their borrowing limits from 3 per cent to 5 per cent for 2020-21. This is expected to provide extra resources of ₹4.28 lakh crore.

2.39 While the increase from 3 to 3.5 per cent of GDP is unconditional, which states can access after suitable revision of their FRLs (many states have promulgated ordinance to this effect)¹⁵, the balance increase in market borrowing was initially made conditional. As per the specific scheme notified by the Department of Expenditure, an additional 1 per cent of GDP will be provided in four tranches of 0.25 per cent, with each tranche linked to clearly specified, measurable and feasible reform actions in four areas: universalisation of ‘One Nation One Ration card’; ease of doing business; power distribution; and urban local body revenue reforms. While some states have already met two of the reform measures (one-nation-one-ration card and the ease of doing business), some others may pursue them during the second half. An additional 0.5 per cent was to be allowed if milestones are achieved in at least three out of four reform areas (Gol, 2020a). Subsequent to the October GSTC Council meeting, states which benefit from the special window could get this additional 0.5 per cent borrowing unconditional. This is, however, expected to have a limited impact on the fiscal deficit of state governments that are likely to borrow a considerably lesser amount from the additional borrowing facility of 2 per cent of GSDP under the *Aatma Nirbhar* Package. On the whole, given states past track record of not being able to access market borrowings despite higher limits, and considering the meticulous process that states need to adhere to in order to get the clearance certificate from respective Ministries/ Departments with regard to achievement of the

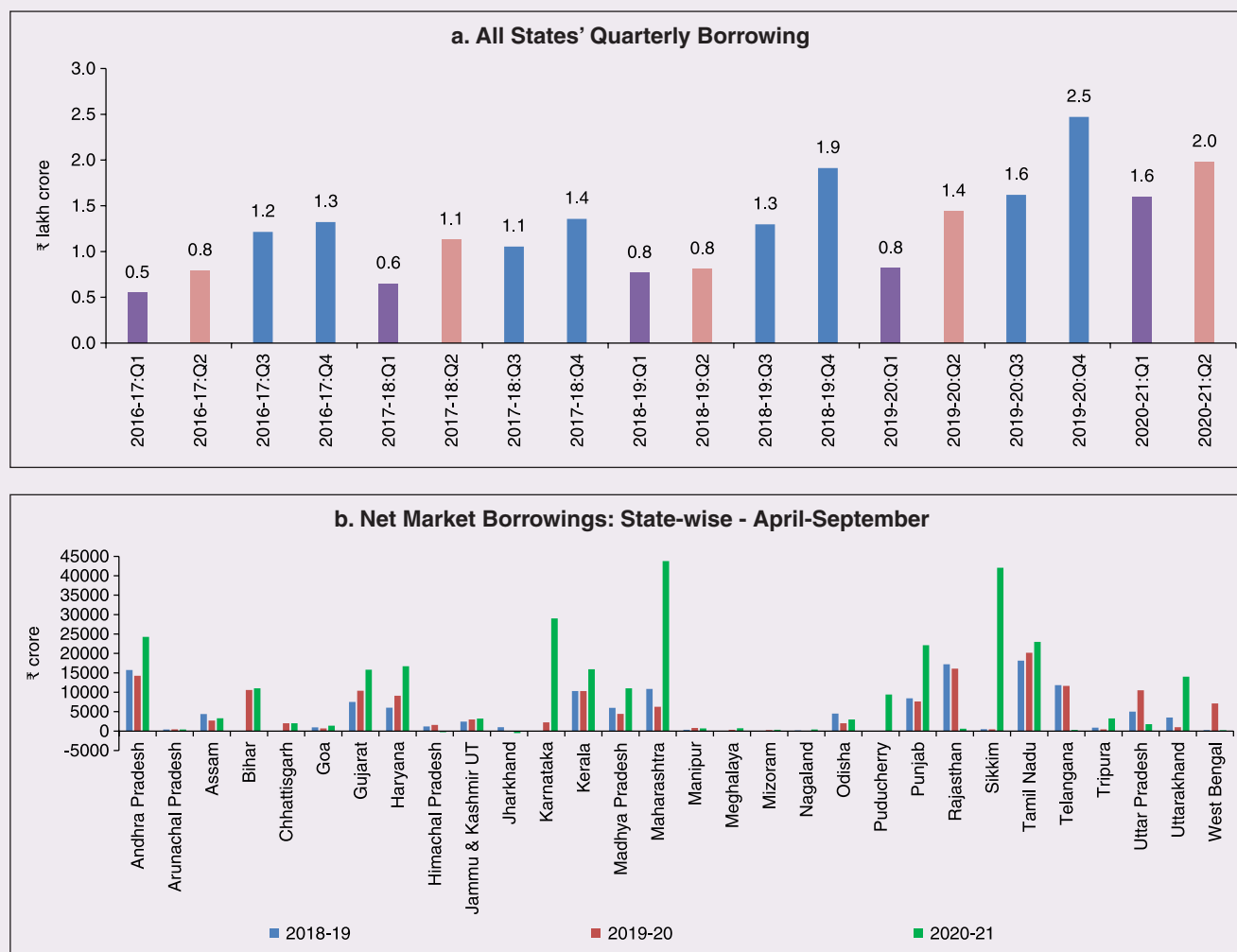
specified reform measures for the conditional part of the borrowing within the current fiscal year, they may be able to utilise only half of the additional borrowing given to them - conditional and unconditional on an average. With borrowings financing about 90 per cent of states’ fiscal deficit, on an average, borrowing limits under Article 293 (3) act as soft constraint. Thus, from the financing side, states’ combined GFD-GDP ratio is likely to remain around 4 per cent with a bias tilted to the upside, higher than the budgeted 2.8 per cent of GDP (Chart II.17), *albeit* with state-wise variations.

2.40 Accordingly, in H1:2020-21, more than 60 per cent increase in borrowings on a year on year basis has already occurred, with about 7-8 states accounting for the bulk of the increase (Chart II.18 a and b). This additional borrowing, coupled with withdrawal of cash balances, are likely to be used for financing the slippage from revenue shortfall and rise in revenue expenditure.



¹⁵ With additional borrowings for states for 2020-21 being decided based on FC-XV Interim Report’s GDP growth for 2020-21, the full unconditional borrowing limit already given to states effectively amounts to be a little higher around 3.8 per cent.

Chart II.18: Market Borrowings of States: April-September

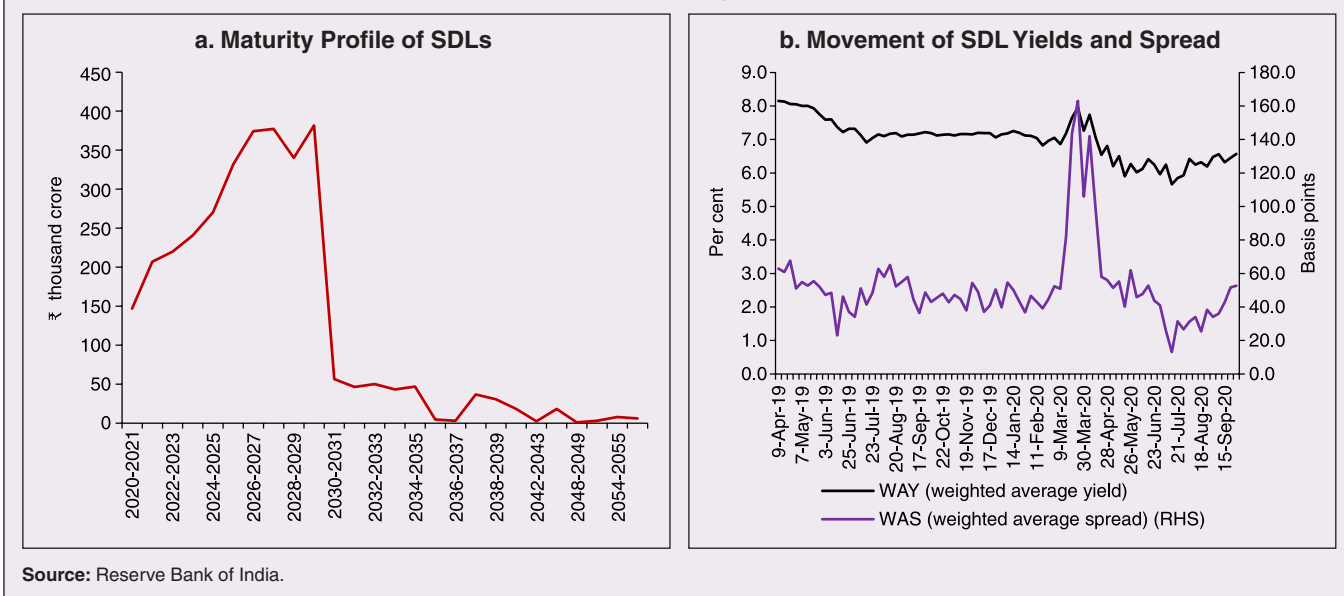


Source: Reserve Bank of India.

2.41 The maturity profile of states' debt indicates that state development loans (SDLs) redemptions are likely to more than double from 2026 onwards (Chart II.19). The weighted average (cut-off) yield (WAY) of SDLs had been rising since 2016-17 till 2018-19, although it moderated in 2019-20 to 7.24 per cent, about 108 bps lower than in 2018-19 (Chart II.19). After significant moderation in Q1:2020-21, SDL yields and spreads have been picking up in Q2. The average inter-state spread on SDLs of 10-year maturity (fresh issuance) was higher at 9 bps in H1:2020-21 (4 bps in H1:2019-20). The Reserve Bank in its Monetary

Policy Statement, October 2020 has allowed open market operations (OMO) in SDLs, which may improve secondary market liquidity and lower their spreads over corresponding G-secs. The first ever such OMO of ₹10,000 crore, conducted on October 22, 2020, will purchase SDLs of Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Goa, Gujarat, Haryana, Himachal Pradesh, Jammu and Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh and Maharashtra through a multi-security auction using multiple price method with no security-wise notified amount.

Chart II.19: SDLs - Maturity and Yield Spread



2.42 Re-issuances to enhance liquidity saw a fillip in 2019-20, with their share in overall issuances rising from 10 per cent in 2017-18 to close to 20 per cent in 2019-20¹⁶. During the year, 17 states and the UT of Puducherry issued securities of non-standard maturities, ranging between 2 and 40 years, moving away from the usual practice of issuance of 10 year paper, to elongate maturities and contain roll-over risks. At end-March 2020, 66.8 per cent of the outstanding SDLs was in the residual maturity bucket of five years and above (Table II.15).

Cash Management of State Governments

2.43 States have been accumulating sizeable cash surpluses in recent years in the form of Intermediate Treasury Bills (ITBs) and Auction Treasury Bills (ATBs), involving a negative carry of interest rates and warranting improvement in cash management practices going forward

(Table II.16). There is, however, evidence of utilisation of cash balances on the part of many states in H1:2020-21, notably for ITBs.

Financial Accommodation by States

2.44 The ways and means advances (WMA) limits of states was reviewed by an Advisory Committee in 2016 and it recommended the limit of ₹32,225 crore for all states/UTs together. Currently, a new committee, viz., the Advisory Committee to Review the Ways and Means limits for State Governments and Union Territories (UTs) (Chairman: Shri Sudhir Shrivastava) is reviewing the WMA limits. With the onset of the COVID-19 pandemic and the strained finances of states, the Reserve Bank decided on April 1, 2020 to increase states' WMA limit by 30 per cent from the existing limit for all states/UTs and this was increased further by 60 per cent over and above the level as on March 31, 2020, extended for a

¹⁶ States such as Bihar, Gujarat, Haryana, Himachal Pradesh, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu and Telangana undertook re-issuances during 2019-20, which helped in creating liquidity for their securities in the secondary market.

Table II.15: Maturity Profile of Outstanding State Government Securities
(As at end-March 2020)

State	Per cent of Total Amount Outstanding				
	0-1 years	1-3 years	3-5 years	5-7 years	Above 7 years
1	2	3	4	5	6
1. Andhra Pradesh	5.2	11.1	14.2	17.2	52.3
2. Arunachal Pradesh	0.0	4.7	12.5	13.6	69.2
3. Assam	1.9	7.2	12.4	15.0	63.5
4. Bihar	2.4	12.3	13.7	27.0	44.6
5. Chhattisgarh	4.9	14.4	22.2	21.3	37.3
6. Goa	2.3	10.8	13.8	21.3	51.9
7. Gujarat	5.5	15.5	15.9	22.3	40.8
8. Haryana	2.8	15.1	21.0	22.8	38.4
9. Himachal Pradesh	7.2	13.5	15.6	21.9	41.8
10. Jharkhand	1.0	12.3	18.6	24.0	43.9
11. Karnataka	3.5	10.0	16.7	24.1	45.7
12. Kerala	3.9	14.4	18.3	22.7	40.8
13. Madhya Pradesh	5.5	12.5	16.1	26.3	39.6
14. Maharashtra	6.6	17.5	16.9	22.5	36.6
15. Manipur	4.3	7.1	13.6	20.6	54.4
16. Meghalaya	2.7	9.9	12.7	23.8	50.9
17. Mizoram	9.1	16.5	16.7	12.6	45.1
18. Nagaland	4.7	15.2	14.9	26.5	38.8
19. Odisha	7.2	33.2	20.7	11.6	27.2
20. Punjab	6.6	17.5	14.1	15.1	46.7
21. Rajasthan	6.0	13.2	19.1	20.4	41.3
22. Sikkim	0.0	2.7	11.1	27.0	59.1
23. Tamil Nadu	3.5	10.7	17.3	23.9	44.6
24. Telangana	2.9	9.1	13.4	18.5	56.1
25. Tripura	3.1	10.4	7.7	17.2	61.6
26. Uttar Pradesh	4.8	10.1	10.1	23.6	51.4
27. Uttarakhand	2.7	8.6	13.4	25.7	49.5
28. West Bengal	3.3	14.7	14.8	20.1	47.1
29. Jammu and Kashmir	8.0	13.8	10.2	13.9	54.1
30. Puducherry	10.0	17.2	16.2	17.1	39.5
All States and UTs	4.5	13.0	15.7	21.7	45.1

Source: Reserve Bank records.

further period of 6 months till March 31, 2021. Furthermore, the number of days for overdraft

Table II.16: Investment of Surplus Cash Balances of State Governments
(Outstanding as on March 31)

(₹ crore)				
Item	2017-18	2018-19	2019-20	2020-21 H1#
1	2	3	4	5
14-Day (ITBs)	1,50,871	1,22,084	1,54,757	1,06,912
ATBs	62,108	73,927	33,504	76,220
Total	2,12,979	1,96,011	1,88,261	1,83,132

#: As at end-September 2020.

Source: Reserve Bank of India.

(OD) has been increased, effective April 7, 2020, till September 30, 2020 and further extended till March 31, 2021. 16 states availed the Special Drawing Facility (SDF) in 2019-20, while 13 states resorted to WMA and ten states availed OD. During 2020-21 so far, utilisation of WMA has shown significant rise. 14 states and one UT have resorted to WMA during H1:2020-21. Enhanced WMA limit is availed by eight states and one UT during the same period. Moreover, five states and one UT were in OD during H1:2020-21.

State Reserve Funds

2.45 Maintaining reserve funds is a best practice in debt management strategy. State governments maintain the Consolidated Sinking Fund (CSF) and the Guarantee Redemption Funds (GRF) with the Reserve Bank as buffer for repayment of their future liabilities. States also avail the SDF at a discounted rate from the Reserve Bank against incremental funds invested in CSF and GRF. As at end-March 2020, 23 states and one UT were members of the CSF scheme, while 18 states were members of the GRF scheme (Table II.17). Since then, one more state has joined the CSF.

Fiscal Position of State Governments

Table II.17: Investment in CSF/GRF by States

(₹ crore)

State	CSF	GRF	CSF as per cent of Outstanding Liabilities
1	2	3	6
Andhra Pradesh	8,059	791	2.6
Arunachal Pradesh	1,344	2	11.4
Assam	4,301	53	5.7
Bihar	7,683	-	4.0
Chhattisgarh	4,300	-	5.0
Goa	578	291	2.6
Gujarat	13,277	465	4.1
Haryana	2,022	1,166	1.0
Jharkhand	0	-	0.0
Karnataka	4,110	-	1.3
Kerala	2,090	-	0.8
Madhya Pradesh	-	891	0.0
Maharashtra	39,948	415	8.3
Manipur	367	97	3.1
Meghalaya	644	35	5.4
Mizoram	536	38	6.4
Nagaland	1,595	32	13.5
Odisha	13,004	1,412	11.0
Puducherry	285	-	3.2
Punjab	234	0	0.1
Tamil Nadu	6,437	-	1.4
Telangana	5,500	1,198	2.5
Tripura	319	5	1.8
Uttarakhand	3,069	77	4.6
West Bengal	10,730	519	2.4
Total	1,30,431	7,486	3.3

'-': Indicates no fund is maintained.

Source: Reserve Bank of India.

7. Outstanding Liabilities/Contingent Liabilities

2.46 Outstanding debt continued to grow in double digits, *albeit* lower than in the years of *Ujwal* DISCOM Assurance Yojana (UDAY) implementation (Table II.18). State-wise data reveal that the debt-GSDP ratio is expected to increase for 13 states. For 19 states, this ratio is expected to exceed 25 per cent in 2020-21 (Statement 20) which may force curtailment of capital expenditure.

2.47 The ratio of interest payment to revenue receipts, an indicator of debt sustainability,

Table II.18: Outstanding Liabilities of State Governments and UTs

Year	Amount	Annual Growth	Debt /GDP
(End-March)	(₹ lakh crore)	(Per cent)	
1	2	3	4
2013	22.45	10.6	22.6
2014	25.10	11.8	22.3
2015	27.43	9.3	22.0
2016	32.59	18.8	23.7
2017	38.59	18.4	25.1
2018	42.92	11.2	25.1
2019	47.87	11.5	25.2
2020 (RE)	53.43	11.6	26.3
2021 (BE)	59.89	12.1	26.6

RE: Revised Estimates. BE: Budget Estimates.

Sources: 1. Budget documents of state governments.

2. Combined Finance and Revenue Accounts of the Union and the State Governments in India, Comptroller and Auditor General of India.

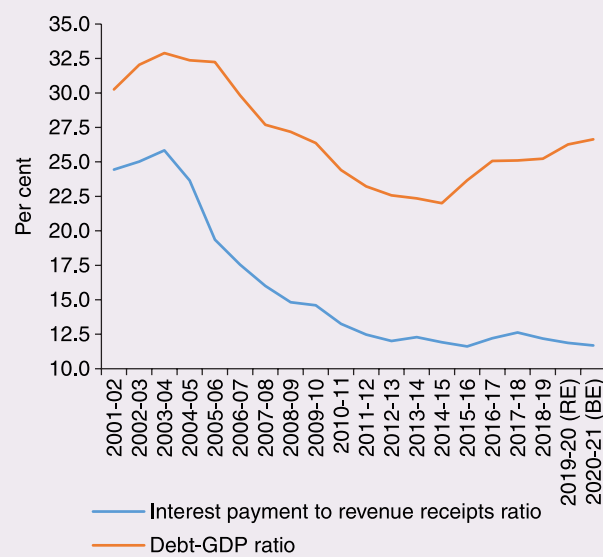
3. Ministry of Finance, Government of India.

4. Reserve Bank records.

5. Finance Accounts of the Union Government, Government of India.

has been declining in recent years, although it remains higher than the threshold prescribed by the fourteenth Finance Commission (FC-XIV) (Chart II.20).

Chart II.20: Debt and Interest Burden



Source: As in Table II.18.

Table II.19: Composition of Outstanding Liabilities of State Governments and UTs
(As at end-March)

(Per cent)

Item	2016	2017	2018	2019	2020 RE	2021 BE
1	2	3	4	5	6	7
Total Liabilities (1 to 4)	100.0	100.0	100.0	100.0	100.0	100.0
1. Internal Debt	72.1	73.3	72.7	72.2	73.4	74.9
<i>of which:</i>						
(i) Market Loans	46.6	48.2	51.4	53.5	57.2	60.4
(ii) Special Securities Issued to NSSF	17.5	14.0	11.1	9.2	7.7	6.3
(iii) Loans from Banks and Financial Institutions	4.3	5.2	4.9	4.8	4.6	4.5
2. Loans and Advances from the Centre	4.7	4.1	3.8	3.6	3.4	3.3
3. Public Account (i to iii)	23.1	22.5	23.5	24.1	23.0	21.7
(i) State Provident Funds, etc.	10.8	10.5	10.3	10.2	9.7	9.3
(ii) Reserve Funds	4.3	3.2	4.1	4.2	4.3	4.1
(iii) Deposits & Advances	8.0	8.8	9.1	9.7	8.9	8.3
4. Contingency Fund	0.1	0.1	0.1	0.1	0.1	0.1

RE: Revised Estimate. BE: Budget Estimate.

Source: Same as that for Table II.18.

Composition of Debt

2.48 Outstanding debt, largely dominated by market borrowings, is expected to reach 75 per cent of GDP at end-March 2021 (Table II.19). There is a compositional shift towards market borrowings after the recommendation of the FC-XIV, to exclude states from National Small Savings Funds (NSSF) financing facility. Accordingly, the share of NSSF, bank and financial institutions and loans from the central government has been declining.

Contingent Liabilities of States

2.49 Along with higher borrowings and the attendant servicing costs, debt sustainability of states is vulnerable to risks arising out of potential realisation of contingent liabilities in the form of guarantees, which have increased post COVID-19 (RBI, 2019a). As part of first tranche

of the centre's *Aatma Nirbhar* Bharat Package announced in May 2020, emergency liquidity infusion of ₹90,000 crore for cash-stressed power distribution companies (DISCOMs) was announced against state government guarantees, thus, adding to their contingent liabilities for 2020-21 by about 0.42 per cent of GDP (Table II.20)¹⁷. It may be noted that historically, any large accretion to states' outstanding guarantees has, in general, been followed by an increase in debt. State guarantees, which increased prior to 2014, fell sharply thereafter, primarily driven by subsuming of power sector guarantees into state government liabilities under the UDAY programme. However, since 2017-18, net accretion to guarantees has seen a significant jump. This could be an early sign of future fiscal risks. Although a cap/limit amounting to about 2 per cent of GSDP is considered optimal as per State Acts, there is no strict adherence to it.

¹⁷ For state-wise break up, refer to Statement 28 of the Report.

Table II.20: Guarantees issued by State Governments

Year	Guarantees Outstanding		Accretion during the Year	
	₹ lakh crore	In per cent of GDP	₹ lakh crore	In per cent of GDP
1	2	3	4	5
2013-14	3.79	3.4	0.80	0.4
2014-15	4.28	3.4	0.49	0.1
2015-16 (UDAY year)	3.64	2.6	-0.64	-0.8
2016-17(UDAY year)	3.12	2.0	-0.52	-0.6
2017-18	4.30	2.5	1.18	0.5
2018-19	5.38	2.8	1.08	0.3
2019-20 Provisional *	6.00	3.0	0.62	0.2
2020-21 (as per fiscal package)**			0.90+	0.42+

Note: * Based on actual reported for 20 states and last year's value for balance states.

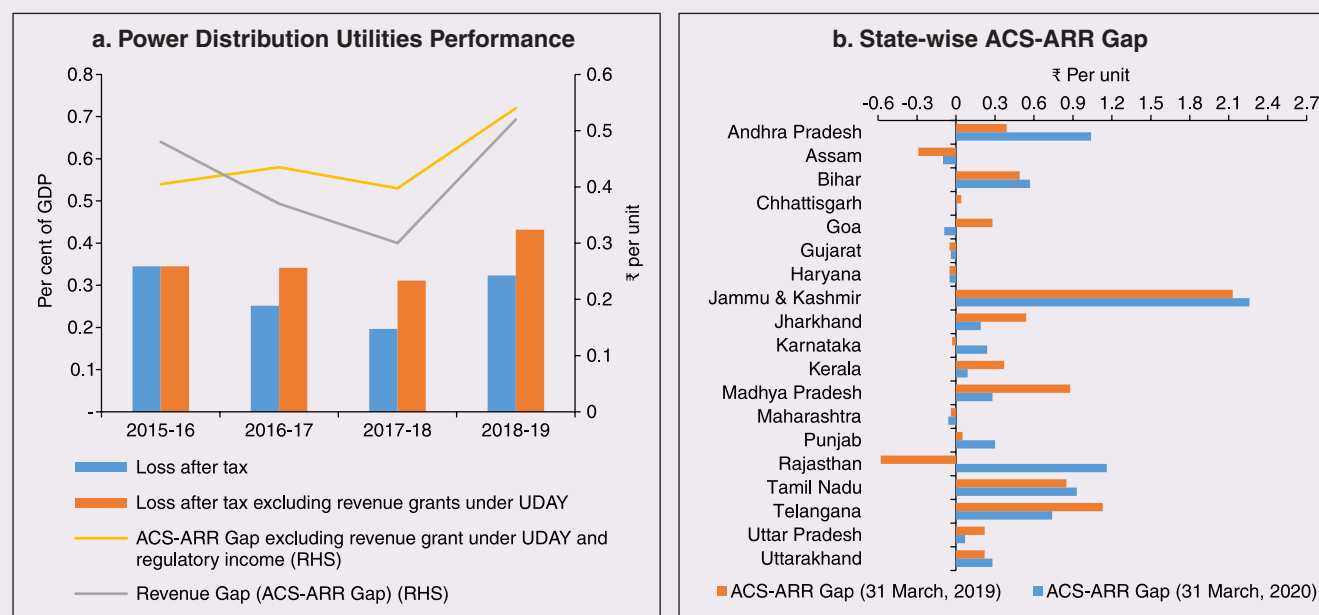
** States' own guarantees given to SPSEs available only for few states as given in Statement 28.

Source: State governments.

2.50 Even post-UDAY, state owned enterprises in power distribution (DISCOMs) continue to impart significant downside risk (leading to higher states'

liabilities) with no visible signs of turnaround. States' outstanding liabilities increased by 1.5 per cent of GDP due to UDAY in 2015-16 and 2016-17; however, despite this steep fiscal cost, DISCOM losses since then have reached pre-UDAY level of 0.3 per cent of GDP in 2018-19. In fact, adjusted for revenue grants made under UDAY - which are transitory and in the nature of accounting transfers - DISCOM losses are significantly higher in 2018-19 *vis-a-vis* 2015-16 (Chart II.21a). Estimates of the revenue gap per unit of power sold - average cost of supply *minus* average realisable revenues (ACS-ARR gap) for 2019-20 reveal that most states have seen a further worsening in their financial performance. Only five states - Assam, Goa, Gujarat, Haryana and Maharashtra - have eliminated revenue gaps in 2019-20, thus meeting the UDAY target. Jammu and Kashmir, Rajasthan, Andhra Pradesh and Telangana have the highest revenue gaps, which have widened further in 2019-20 (Chart II.21b).

Chart II.21: Power Distribution Utilities Financial Performance



Note: In chart (b) Data for Delhi, Odisha, West Bengal and Himachal Pradesh were not available on the date of compilation (August 14, 2020).

Sources: Power Finance Corporation (PFC) report on the performance of state power utilities (2017-18 and 2018-19 issues); UDAY website.

2.51 The financial position of DISCOMs is expected to weaken further in 2020-21 as COVID-19 related lockdown has severely impacted power demand, particularly in the lucrative industrial and commercial segments, while their cost structure is rigid due to minimum commitments for power offtake in long-term Power Purchase Agreements (PPAs). Structural issues remain to be addressed. While Union Government announced a liquidity support of ₹90,000 crore for DISCOMs which may help tide over immediate liquidity concerns, another round of bailouts of loss-making DISCOMs seems imminent in the aftermath of the crisis, imparting downside risks to state finances.

2.52 Going forward, managing fiscal risk through well laid down strategies is going to be critical, especially with emergence of new shocks and risks *viz.*, the global financial crisis, natural calamities and now the pandemic. The fiscal

risks could be (i) general, *i.e.*, cyclical slowdown, macroeconomic shocks, commodity price shocks, interest rate shocks, and (ii) specific *i.e.*, emanating from government guarantees and contingent liabilities and state-owned enterprises. In fact these specific fiscal risks have been observed to have disrupted efficient fiscal management leading to large debt spikes over the last decade (Jaramillio *et al*, 2017; IMF, 2017; Hemming, 2006). Similarly, severe problems in state-owned enterprises may underwrite economic slowdown and recessions, thus, necessitating large bailouts from the government - recent examples being Brazil and South Africa (IMF, 2020b). Given the lack of transparency with regard to states in reporting of some of these risks, efforts by Odisha in acknowledging, assessing and preparing in advance for such unforeseen risks could be worthy of emulation (Box II.4).

Box II.4: Assessing Fiscal Risks – Odisha’s Experience

The Government of Odisha identified “Fiscal Risk Management” as one of the key reforms priority under technical assistance from the IMF’ South Asia Regional Training and Technical Assistance Center (SARTTAC) in 2019. A dedicated Fiscal Risk and Debt Management Cell in the Finance Department and a high-level Fiscal Risk Committee has been put in place. The state has adopted a three-stage approach to fiscal risk management: (1) identification and measurement of fiscal risks; (2) fiscal risk reporting; and (3) mitigation and management of fiscal risk.

Under (1), all possible sources of fiscal risk were identified and the impact of each fiscal risk worked out as ratio of GSDP and classified as high, medium and low on the basis of the level and possibility of occurrence (Chart 1a)¹⁸. Some of the identified sources of fiscal risk include (a) macroeconomic

performance, international commodities prices, and exchange rate risk, particularly for foreign currency loans; (b) natural disaster to which Odisha is prone; (c) composite debt risk measured through a debt index consisting of debt to GSDP ratio, per capita debt and cost of debt using the relative distance methodology; (d) overall fiscal risk measured through a fiscal performance index employing a multiple indicator approach; and (e) contingent liabilities risk from Guarantees, Public Private Partnerships (PPPs)¹⁹, and public sector undertakings (PSUs). The state government also uses the IMF’s State-Owned Enterprise Health Check Tool to assess the financial health of the State PSUs. Such assessment of GRIDCO, a state-owned enterprise in power sector shows it a high risk company (Chart 1b).

(Contd...)

¹⁸ For instance, if a particular risk factor (say reduction in central transfer) has potential to have a fiscal impact more than 0.5 per cent of GSDP and the possibility of occurrence is more than 50 per cent, that factor is regarded as high-risk.

¹⁹ In case of PPP projects sponsored by state government, fiscal risk arises where the project does not yield desired outcome due to unrealistic demand projection or shortcomings in project planning and management.

Chart 1: Fiscal Risk Identification and Measurement

a. Fiscal Risk identification framework				b. Financial Health Check of State Power Distribution Company -GRIDCO			
Fiscal impact	High (>0.5 per cent of GSDP)	<ul style="list-style-type: none"> Growth slowdown Central transfers 	<ul style="list-style-type: none"> Non-performing assets of public financial institutions Investment scams of small-scale investors GST revenues Mining-related revenues 	<ul style="list-style-type: none"> Energy sector Natural disasters 	Risk Matrix	Value	Risk Level
	Medium (0.1 per cent - 0.5 per cent of GSDP)		<ul style="list-style-type: none"> Public sector undertakings Social security programs Food Supply Department 		Liquidity Indicators		
	Low (<0.1 per cent of GSDP)	<ul style="list-style-type: none"> PPPs Tax refunds under litigation Pension schemes Inflation surprises 	<ul style="list-style-type: none"> Foreign-currency debt Line departments 		Current ratio	1	High Risk
		Low (<10 per cent)	Medium (10 per cent - 50 per cent)	High (>50 per cent)	Quick ratio	1	High Risk
Likelihood of realisation					Creditor turnover days	215	Very High Risk
					Debtor turnover days	226	Very High Risk
					Solvency Indicators		
					Debt to equity	-1	Very Low Risk
					Debt to assets	1	Moderate Risk
					Interest coverage	1	Very High Risk
					Profitability Indicators		
					Net profit margin (per cent)	-4 per cent	
					ROA (per cent)	4 per cent	Low Risk
					ROE (per cent)	7 per cent	High Risk
					Financial Performance		
					Operating costs to revenue	0	
					Cost recovery	76	Very Low Risk
					Operative profit margin (per cent)	3 per cent	
					Government relationship		
					Grants to revenue ratio (per cent)	0 per cent	Very Low Risk
					Taxes payable to current liabilities	0	Very Low Risk

Source: State government.

Fiscal risk reporting, critical for transparency and public disclosure, is envisaged through a two-stage approach. First, a Fiscal Risk Register as part of the Mid-year Fiscal

Strategy Report identifying the sources of fiscal risks, risk exposure and likelihood and severity of risk materialization is put in place (Chart 2). Second, a Fiscal Risk Statement

Chart 2: Abstract of Fiscal Risk Register

Category	Type of Risk	Fiscal Impact	Comments On Fiscal Impact	Likelihood	Comments on Likelihood
Macro-economic Risk	Growth Slowdown	High	Revenues of the state are significantly linked to GSDP growth. A decline in the latter will adversely affect the deficit.	High	The COVID-19 crisis.
Macro-economic Risk	Central Transfers	High	Central transfers account for a significant share of the state's revenues.	High	COVID-19 crisis to impact the transfer from central government.
Specific Risks	PPPs	Low	The fiscal impact will be low considering the project cost of total PPPs projects with respect to the state budget.	Low	
Specific Risks	PSUs	Medium	The bailout package to restore the financial health of the loss-making PSUs, if the government considers, may have a sizable impact on the state economy.	Medium	The balance sheets of most PSUs show incurring losses.
Specific Risks	Natural Disaster	High	Odisha is highly prone to various natural disasters like cyclone	High	
Institutional Risk	Food Supply Department	Medium	Subsidiaries of this department have high obligation to banking authorities.	Medium	Because of the liquidity problem of subsidiaries
Institutional Risk	Energy sector	High	Energy Department owes the obligation of its subsidiaries.	High	High aggregate technical and commercial loss as well as collection inefficiencies at DISCOM level.

(Contd...)

to be released along with Annual Budget documents would incorporate all possible fiscal risks for the state in quantified terms. This statement would be a part of the disclosure that the government intends to bring out, starting from the financial year 2021-22.

Mitigation and Management of Fiscal Risk is the third aspect as part of which a high level Fiscal Risk Committee headed by the Secretary, Finance was set up by the state government. It has already put in place mechanisms for management and mitigation of some of the major fiscal risks such as creation of State Disaster Response & Mitigation Fund (SDRMF), an administrative ceiling on government guarantees and constitution of a Guarantee Redemption

Fund (GRF) for the fiscal risks arising from government guarantees and institution of a Consolidated Sinking Fund (CSF) to mitigate fiscal risks arising from amortization and foreign currency fluctuations.

Over the years, the Government of Odisha has built up a sizeable CSF (about 15 per cent of state government liabilities) and GRF (about 25 per cent of total guarantee exposure). As a part of fiscal risk management measure for COVID-19 crisis, the state would utilise a portion of the CSF for amortisation of the entire open market borrowing during 2020-21. Going forward, the state intends to broad-base coverage of these funds and use them to address likely fiscal stresses in future.

8. Conclusion

2.53 There are some specific features of states' budget outcomes which are noteworthy. First, fiscal rectitude is reflected in large-scale pro-cyclical spending, making them vulnerable to downturns. Second, increased financing of fiscal deficits with market borrowings has pushed up debt levels, which may lead to tightening of debt servicing constraints.

2.54 Going forward, with states in the frontline in the battle against COVID, the fiscal arithmetic for 2020-21 is likely to suffer. While the focus during the first few months of 2020-21 has been on managing the health crisis, it is the regional and spatial dimensions of structural features like demography, health care systems, migrant workers, digitisation and strength of the third tier which are likely to play an important role going forward in determining the fuller macroeconomic impact of the pandemic on state finances.