# **TYCHOS REPORT**

		2016	2017	2018	2019	2020 Q1
	Debt to GDP	56%	55%	56%	56%	58%
Total Private Debt	5 year % change	-6%	-10%	-9%	-6%	-4%
	Billion Rupee	₹83,951	₹91,122	₹104,196	₹112,485	₹117,526
	Debt to GDP	46%	44%	45%	44%	45%
Business Debt	5 year % change	-10%	-15%	-14%	-12%	-11%
	Billion Rupee	₹68,859	₹73,170	₹83,199	₹88,152	₹91,989
	Debt to GDP	10%	11%	11%	12%	13%
Household Debt	5 year % change	13%	21%	23%	30%	34%
	Billion Rupee	₹15,092	₹17,952	₹20,997	₹24,333	₹25,537

## Areas of Concern

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Household Sec	tors	2016	2017	2018	2019	2020 Q2
	Debt to GDP	5.3%	5.5%	5.6%	6.3%	6.9%
Housing Loans	5 year % change	29%	40%	32%	29%	35%
	Billion Rupee	₹7,871	₹9,167	₹10,514	₹12,665	₹13,207
	Debt to GDP	2.5%	2.8%	3.1%	3.3%	3.6%
All Other Personal Loans	5 year % change	n/a	n/a	n/a	54%	77%
	Billion Rupee	₹3,693	₹4,636	₹5,775	₹6,613	₹6,877

Private Debt Le	nders	2016	2017	2018	2019	2020 Q2
	Debt to GDP	13.1%	14.5%	15.8%	17.7%	18.5%
Private Sector Banks	5 year % change	36%	41%	52%	62%	65%
	Billion Rupee	₹19,530	₹24,137	₹29,451	₹35,273	₹35,571



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## **Business Debt**

Debt by Industr	y	2016	2017	2018	2019	2020 Q2
	Debt to GDP	19.5%	17.7%	16.7%	15.5%	16.1%
Industry	5 year % change	3%	-12%	-21%	-31%	-26%
,	Billion Rupee	₹29,154	₹29,482	₹31,160	₹30,907	₹31,054
	Debt to GDP	4.7%	4.1%	3.9%	3.6%	3.8%
Memo: Industry: Construction	5 year % change	19%	-3%	-16%	-30%	-25%
,	Billion Rupee	₹7,066	₹6,789	₹7,318	₹7,221	₹7,371
lemo: Industry: Electricity, Gas	Debt to GDP	3.1%	2.7%	2.8%	2.6%	2.8%
	5 year % change	35%	3%	-3%	-22%	-18%
and Water	Billion Rupee	₹4,646	₹4,570	₹5,147	₹5,178	₹5,332
Memo: Industry; Basic Metals	Debt to GDP	2.9%	2.5%	2.1%	1.7%	1.8%
• •	5 year % change	7%	-12%	-33%	-47%	-43%
and Metal Products	Billion Rupee	₹4,346	₹4,220	₹3,855	₹3,400	₹3,441
	Debt to GDP	1.5%	1.4%	1.3%	1.2%	1.2%
Memo: Industry: Textiles	5 year % change	-22%	-26%	-32%	-36%	-33%
	Billion Rupee	₹2,269	₹2,377	₹2,350	₹2,328	₹2,229
	Debt to GDP	1.3%	1.2%	1.2%	1.1%	1.1%
Memo: Industry: Engineering	5 year % change	-9%	-20%	-22%	-29%	-29%
	Billion Rupee	₹1,914	₹1,965	₹2,168	₹2,293	₹2,114
	Debt to GDP	5.8%	6.0%	6.0%	5.9%	6.1%
Agriculture	5 year % change	7%	2%	-3%	-0%	1%
	Billion Rupee	₹8,732	₹9,936	₹11,229	₹11,792	₹11,803
	Debt to GDP	4.7%	4.7%	4.8%	5.1%	5.6%
Trade	5 year % change	19%	-4%	-9%	2%	8%
	Billion Rupee	₹7,021	₹7,791	₹8,868	₹10,115	₹10,807
	Debt to GDP	3.8%	3.7%	3.7%	3.9%	4.2%
Professional and Other	5 year % change	-12%	-3%	0%	3%	8%
Services	Billion Rupee	₹5,685	₹6,134	₹6,927	₹7,887	₹8,007
	Debt to GDP	1.0%	1.1%	1.1%	1.1%	1.1%
Transport Operators	5 year % change	-22%	-14%	-1%	2%	9%
	Billion Rupee	₹1,520	₹1,758	₹2,094	₹2,182	₹2,205
	Debt to GDP	6.6%	6.2%	6.3%	6.6%	6.6%
All Other	5 year % change	-23%	-26%	-19%	-14%	-14%
	Billion Rupee	₹9,089	₹9,582	₹10,738	₹12,599	₹12,599

### Household Debt

Household Debt,	by Туре	2016	2017	2018	2019	2020 Q2
	Debt to GDP	5.3%	5.5%	5.6%	6.3%	6.9%
Housing Loans	5 year % change	29%	40%	32%	29%	35%
	Billion Rupee	₹7,871	₹9,167	₹10,514	₹12,665	₹13,207
	Debt to GDP	0.1%	0.0%	0.1%	0.1%	0.1%
Consumer Durables	5 year % change	5%	-58%	-30%	-39%	-41%
	Billion Rupee	₹121	₹53	₹98	₹109	₹102
All Other Personal Loans	Debt to GDP	2.5%	2.8%	3.1%	3.3%	3.6%
	5 year % change	n/a	n/a	n/a	54%	77%
	Billion Rupee	₹3,693	₹4,636	₹5,775	₹6,613	₹6,877
	Debt to GDP	1.0%	1.2%	1.3%	1.3%	1.3%
Memo: Auto Loans	5 year % change	n/a	n/a	n/a	46%	45%
	Billion Rupee	₹1,568	₹2,020	₹2,408	₹2,564	₹2,494
	Debt to GDP	0.4%	0.4%	0.5%	0.6%	0.6%
Memo: Credit Card Debt	5 year % change	n/a	n/a	n/a	120%	105%
	Billion Rupee	₹559	₹733	₹992	₹1,293	₹1,209
	Debt to GDP	0.5%	0.4%	0.4%	0.4%	0.4%
Memo: Student Loans	5 year % change	n/a	n/a	n/a	-18%	-14%
	Billion Rupee	₹711	₹731	₹752	₹803	₹800

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## Private Debt by Lender/Holder

Private Debt Le	nders	2016	2017	2018	2019	2020 Q2
	Debt to GDP	n/a	31.7%	30.7%	28.8%	31.0%
Public Sector Banks	5 year % change	n/a	n/a	n/a	n/a	n/a
	Billion Rupee	n/a	₹52,660	₹57,099	₹57,451	₹59,656
	Debt to GDP	13.1%	14.5%	15.8%	17.7%	18.5%
Private Sector Banks	5 year % change	36%	41%	52%	62%	65%
	Billion Rupee	₹19,530	₹24,137	₹29,451	₹35,273	₹35,571
	Debt to GDP	2.4%	2.1%	2.1%	2.1%	2.2%
Foreign Banks	5 year % change	-11%	-20%	-18%	-21%	-19%
	Billion Rupee	₹3,614	₹3,540	₹3,958	₹4,132	₹4,182
	Debt to GDP	1.4%	1.4%	1.5%	1.5%	1.6%
Regional Rural Banks	5 year % change	11%	8%	8%	5%	11%
	Billion Rupee	₹2,143	₹2,405	₹2,727	₹2,934	₹2,984
	Debt to GDP	n/a	0.2%	0.3%	0.4%	0.5%
Small Finance Banks	5 year % change	n/a	n/a	n/a	n/a	n/a
	Billion Rupee	n/a	₹275	₹517	₹892	₹939

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Debt Security Inves	tment	2015	2016	2017	2018	2019	
	to GDP	0.0%	0.0%	0.1%	0.1%	0.1%	
India Holdings of Foreign Debt Securities	5 year % change	-99%	1839%	5271%	14090%	25269%	
Securities	Billion Rupee	₹1	₹66	₹101	₹270	₹231	
	to GDP	0.0%	0.0%	0.1%	0.1%	0.1%	
United States	5 year % change	-99%	48654%	1321715%	24926%	112909%	
	Billion Rupee	₹0	₹66	₹89	₹262	₹224	
	to GDP	0.0%	0.0%	0.0%	0.0%	0.0%	
Brazil	5 year % change	n/a	n/a	n/a	n/a	n/a	
	Billion Rupee	₹0	₹0	₹3	₹3	₹4	
	to GDP	0.0%	0.0%	0.0%	0.0%	0.0%	
Mauritius	5 year % change	n/a	n/a	n/a	1305%	n/a	
	Billion Rupee	₹0	₹0	₹0	₹2	₹2	
Equity and Investment Fund Shares		2015	2016	2017	2018	2019	
idia Holdings of Foreign Equity and Investment Fund Shares	to GDP	0.1%	0.1%	0.1%	0.1%	0.1%	1
	5 year % change	13%	11%	17%	-20%	-12%	
	Billion Rupee	₹100	₹106	₹136	₹129	₹142	
	to GDP	0.0%	0.0%	0.0%	0.0%	0.0%	
United States	5 year % change	65%	182%	14%	-25%	-33%	
	Billion Rupee	₹28	₹33	₹34	₹44	₹45	
	to GDP	0.0%	0.0%	0.0%	0.0%	0.0%	
China	5 year % change	4671%	977645%	18325%	50355%	12555%	
	Billion Rupee	₹14	₹15	₹36	₹37	₹39	
	to GDP	0.0%	0.0%	0.0%	0.0%	0.0%	1
Luxembourg	5 year % change	-54%	-48%	-55%	-62%	-33%	
-	Billion Rupee	₹18	₹17	₹15	₹18	₹25	
Loans		2015	2016	2017	2018	2019	
	to GDP	0.4%	0.4%	0.4%	n/a	n/a	
ndia Holdings of Foreign Loans	5 year % change	n/a	12%	14%	n/a	n/a	
	Billion Rupee	₹445	₹478	₹535	n/a	n/a	

## Portfolio Loans & Investment (Total Economy) - India into Foreign Countries

\* Total Economy includes Financial, Non-Financial and General Government sectors



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Debt Security Inves	tment	2015	2016	2017	2018	2019	
	to GDP	3.8%	3.0%	3.7%	3.0%	3.2%	
Foreign Holdings of India's Debt	5 year % change	-6%	-3%	-1%	0%	-19%	
Securities	Billion Rupee	₹5,059	₹4,434	₹6,228	₹5,551	₹6,380	
	to GDP	1.0%	0.5%	0.9%	0.8%	0.9%	
Singapore	5 year % change	6%	-51%	-54%	-43%	-43%	
	Billion Rupee	₹1,283	₹823	₹1,452	₹1,421	₹1,721	
	to GDP	0.5%	0.4%	0.5%	0.5%	0.6%	
United States	5 year % change	50%	127%	208%	163%	72%	
	Billion Rupee	₹626	₹661	₹896	₹853	₹1,270	
	to GDP	0.3%	0.3%	0.5%	0.5%	0.5%	
Luxembourg	5 year % change	98%	197%	279%	211%	57%	
	Billion Rupee	₹410	₹482	₹858	₹840	₹955	
Equity and Investment Fi	und Shares	2015	2016	2017	2018	2019	
Foreign Holdings of India's	to GDP	16.6%	15.7%	19.8%	17.1%	18.2%	
Equity and Investment Fund	5 year % change	-13%	46%	42%	23%	7%	
Shares	Billion Rupee	₹22,167	₹23,441	₹32,928	₹31,803	₹36,328	
	to GDP	5.8%	5.5%	7.1%	6.0%	6.5%	
United States	5 year % change	7%	83%	69%	36%	7%	
	Billion Rupee	₹7,710	₹8,271	₹11,755	₹11,182	₹12,992	
	to GDP	3.8%	3.5%	3.9%	3.3%	3.1%	
Mauritius	5 year % change	-43%	-5%	-3%	-11%	-22%	
	Billion Rupee	₹5,133	₹5,290	₹6,499	₹6,202	₹6,174	
	to GDP	1.4%	1.3%	1.7%	1.5%	1.5%	
Luxembourg	5 year % change	-39%	15%	10%	7%	-10%	
Luxembourg							

## Portfolio Loans & Investment (Total Economy) - Foreign Countries into India

\* Total Economy includes Financial, Non-Financial and General Government sectors



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## **Derivative Activity**

OTC Derivative Activity by	v Contract Type	2016	2017	2018	2019	2020 Q2
	Debt to GDP	n/a	n/a	n/a	n/a	n/a
Interest Rate Contracts	5 year % change	n/a	n/a	n/a	n/a	n/a
	Billion Rupee	n/a	n/a	n/a	n/a	n/a
	Debt to GDP	n/a	n/a	n/a	n/a	n/a
Foreign Exchange Contracts	5 year % change	n/a	n/a	n/a	n/a	n/a
	Billion Rupee	n/a	n/a	n/a	n/a	n/a
Equity-Linked Contracts	Debt to GDP	n/a	n/a	n/a	n/a	n/a
	5 year % change	n/a	n/a	n/a	n/a	n/a
	Billion Rupee	n/a	n/a	n/a	n/a	n/a
	Debt to GDP	n/a	n/a	n/a	n/a	n/a
Commodity Contracts	5 year % change	n/a	n/a	n/a	n/a	n/a
	Billion Rupee	n/a	n/a	n/a	n/a	n/a
	Debt to GDP	n/a	n/a	n/a	n/a	n/a
Credit Derivatives	5 year % change	n/a	n/a	n/a	n/a	n/a
	Billion Rupee	n/a	n/a	n/a	n/a	n/a
	Debt to GDP	n/a	n/a	n/a	n/a	n/a
Total Notional	5 year % change	n/a	n/a	n/a	n/a	n/a
	Billion Rupee	n/a	n/a	n/a	n/a	n/a

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Individual Len	ders	2016	2017	2018	2019	2020 Q2
	Loans to GDP	12.5%	11.4%	10.5%	11.2%	11.7%
	5 year % change	8%	-6%	-18%	-14%	-8%
State Bank of India	Billion Rupee	₹18,703	₹18,969	₹19,601	₹22,269	₹23,743
	Charge-off Rate	n/a	n/a	n/a	n/a	n/a
	Loans to GDP	3.3%	3.1%	3.0%	3.2%	3.5%
ICICI Bank Limited	5 year % change	9%	-1%	-2%	-0%	3%
	Billion Rupee	₹4,937	₹5,153	₹5,669	₹6,470	₹7,062
	Charge-off Rate	n/a	n/a	n/a	n/a	n/a
	Loans to GDP	0.7%	0.8%	1.1%	1.2%	0.8%
Yes Bank	5 year % change	67%	102%	154%	165%	49%
	Billion Rupee	₹982	₹1,323	₹2,035	₹2,414	₹1,714
	Charge-off Rate	n/a	n/a	n/a	n/a	n/a
	Loans/Lease Recievables to GDP	0.4%	0.4%	0.5%	0.5%	0.3%
wan Housing Finance	5 year % change	79%	62%	61%	48%	-15%
Corporation Limited	Billion Rupee	₹618	₹721	₹931	₹980	₹662
	Charge-off Rate	n/a	n/a	n/a	n/a	n/a
	Loans/Lease Receivables to GDP	0.4%	0.5%	0.6%	0.5%	0.3%
abulls Housing Finance	5 year % change	82%	562%	110%	60%	1%
	Billion Rupee	₹605	₹821	₹1,098	₹924	₹702
	Charge-off Rate	n/a	n/a	n/a	n/a	n/a

## Largest Individual Lenders



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## **Real Estate**

Total Debt	:	2016	2017	2018	2019	2020 Q2
	Debt to GDP	5.3%	5.5%	5.6%	6.3%	6.9%
Housing Loans	5 year % change	29%	40%	32%	29%	35%
	Billion Rupee	₹7,871	₹9,167	₹10,514	₹12,665	₹13,207

Additional Real Es	tate Data	Mar2019	Sep2019	Dec2019	Mar2020	Jun2020
	Index (2010-11Q1=100)	273.70	275.41	278.77	278.08	281.43
Housing Price Index	Annual Change	3.45%	3.25%	2.97%	3.92%	2.83%

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## Additional Data

Public Debt		2016	2017	2018	2019	2020 Q2
Total Central Government Debt	Debt to GDP	46.8%	45.5%	44.8%	47.0%	52.7%
	5 Year % Change	-1%	-6%	-7%	0%	13%
	Billion Rupee	₹70,082	₹75,662	₹83,400	₹93,893	₹101,356
Central Government Debt: Held by Public	Debt to GDP	41.3%	40.4%	40.1%	42.5%	48.0%
	5 Year % Change	3%	-4%	-6%	3%	16%
	Billion Rupee	₹61,841	₹67,163	₹74,679	₹84,894	₹92,287
Central Government Debt: Intragovernmental Holdings	Debt to GDP	5.5%	5.1%	4.7%	4.5%	4.7%
	5 Year % Change	-20%	-20%	-21%	-19%	-12%
	Billion Rupee	₹8,241	₹8,499	₹8,721	₹8,999	₹9,069

Supplementary Data		2016	2017	2018	2019	2020 Q2
Nominal GDP	Billion Rupee	₹149,647	₹166,285	₹186,091	₹199,669	₹192,298
	Annual % Change	11.8%	11.1%	11.9%	7.3%	-0.6%
Real GDP	2011-12 Billion Rupee	₹121,172	₹129,112	₹137,835	₹144,520	₹137,202
	Annual % Change	9.0%	6.6%	6.8%	4.9%	-3.1%
Consumer Price Index (Inflation)	CPI (2010=100)	155.95	159.83	167.60	180.44	187.78
	Inflation Rate	5.0%	2.5%	4.9%	7.7%	5.2%
Current Account Balance	Billion Rupee	(₹1,434)	(₹965)	(₹3,138)	(₹3,997)	₹827
	to GDP	-1.0%	-0.6%	-1.8%	-2.1%	0.4%

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## Explanatory Notes

Color Code	Cell Description
	5 Year % Change > 40%
	5 Year % Change > 40%
	Debt to GDP < 1.5% (immaterial)
	5 Year % Change > 20% < 40%
	5 Year % Change > 20% < 40%
	Debt to GDP < 1.5% (immaterial)
	5 Year % Change > 13% < 20%
	5 Year % Change > 13% < 20%
	Debt to GDP < 1.5% (immaterial)
	Residual Risk Period

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#### INDIA

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