

Socio economic determinants of secondary education in India

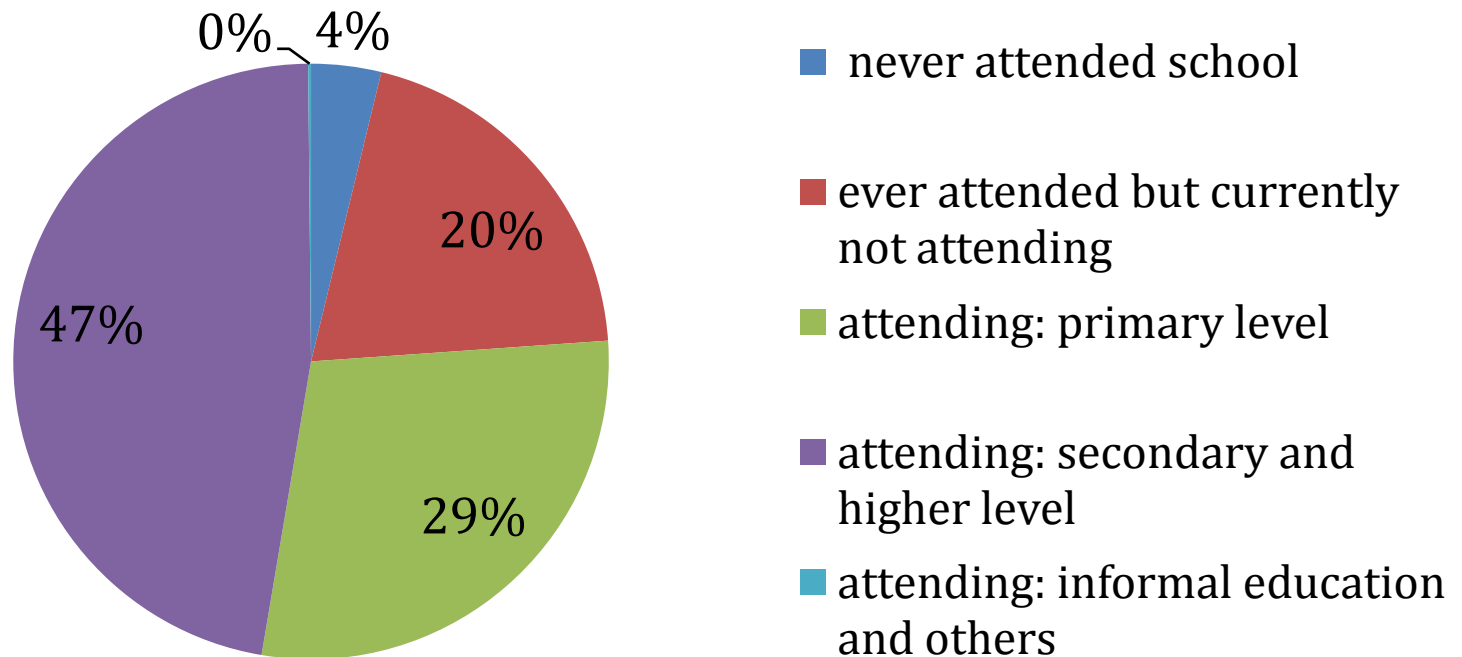
Insights from NSSO unit level data of 71st round

By
Susmita Mitra

Assistant professor
Council for Social Development
New Delhi

How Many OOS (15-18 years)?

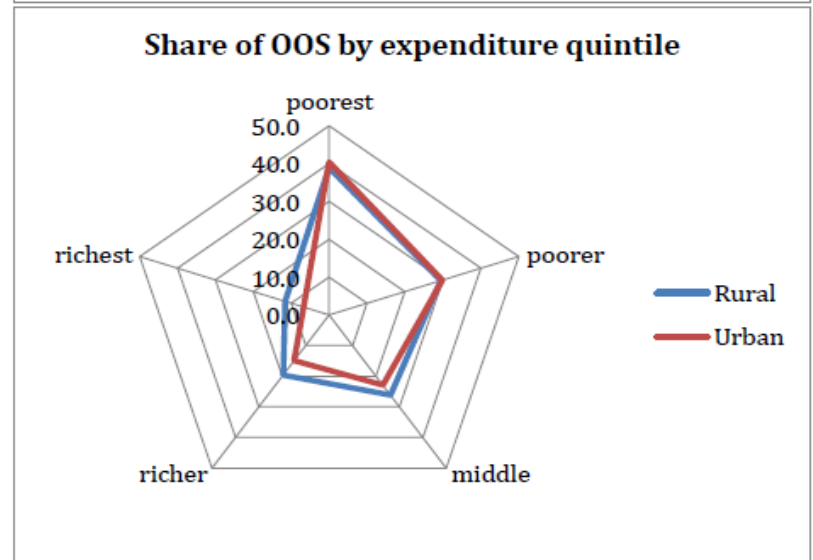
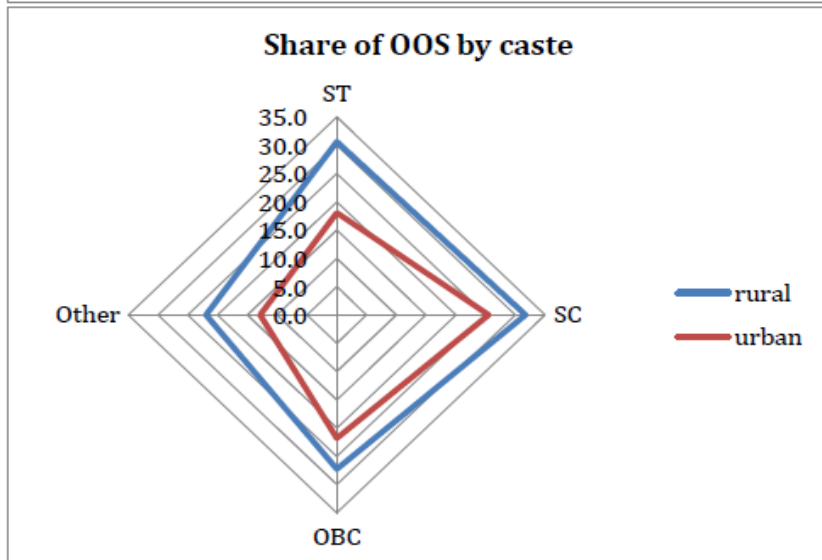
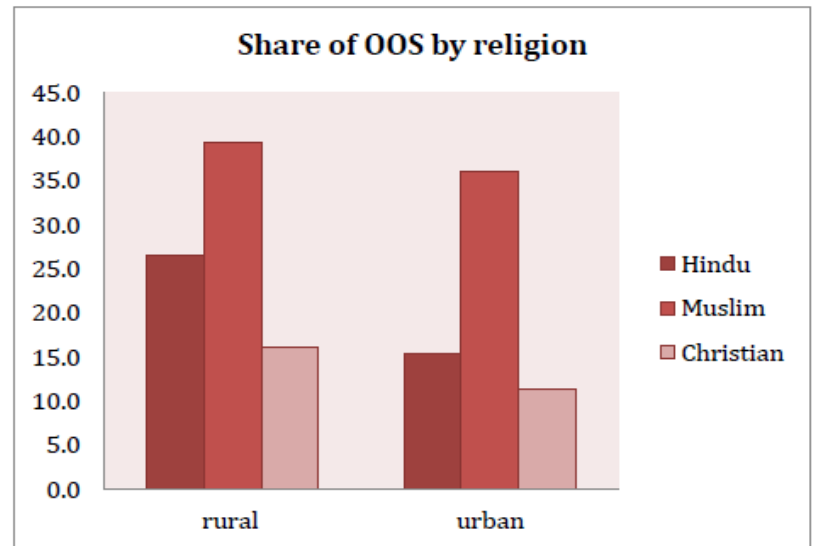
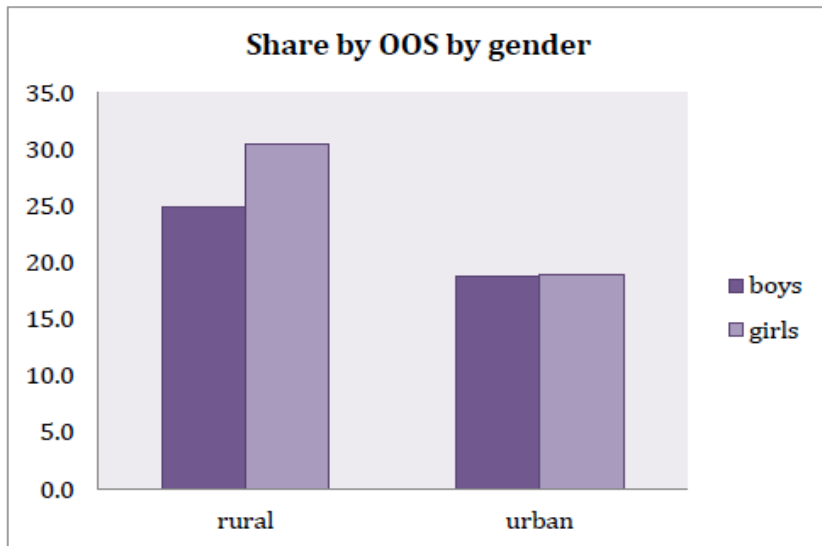
Educational attendance status of children



23,922,536 children of 15-18 years age are OOS

Source: Author's calculation from NSSO 71st round data (2014)

Who are these children?



Source: Author's calculation from NSSO 71st round data (2014)

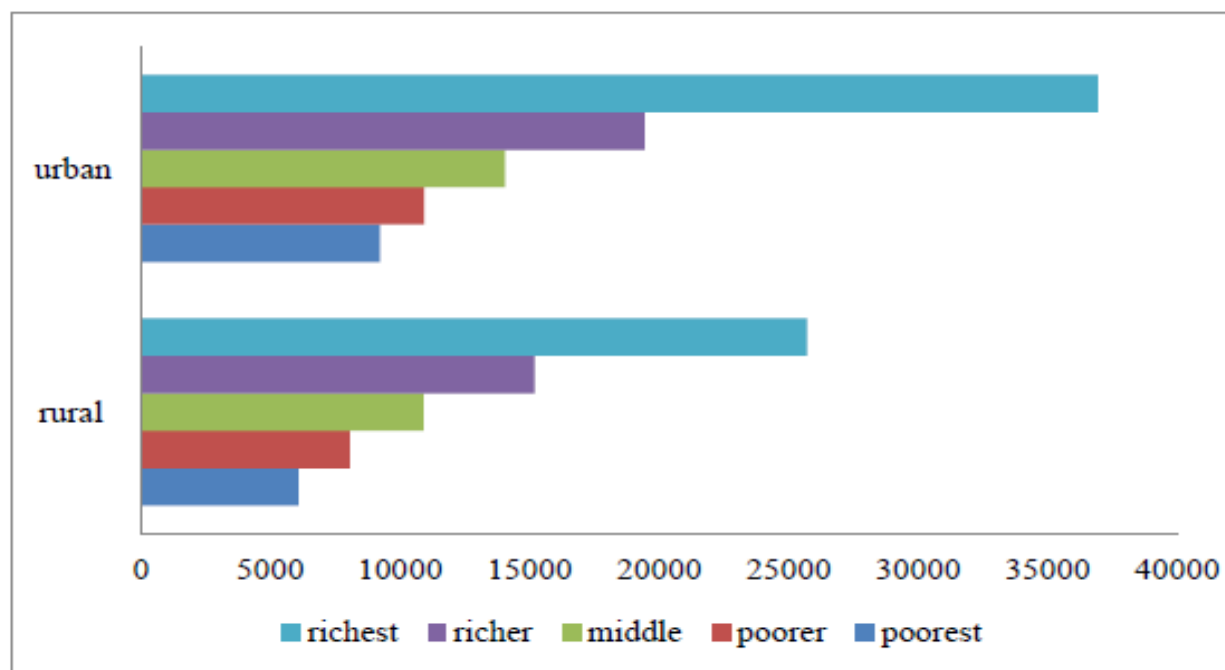
$$\ln\left(\frac{P_{oos}}{1 - P_{oos}}\right) = \beta_0 + \beta_1^i SEX^i + \beta_2^j AGE^j + \beta_3^k RELGN^k + \beta_4^l SCGP^l + \beta_5^m EXPQNTL^m + \beta_6^n DIST^n + \beta_7^o SCTR^o$$

Probability of being out of school	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Constant	-1.24***	-1.81***	-1.94***	-1.38***	-0.92***	-1.15***	-1.24***
Gender dummy (reference category=boys)							
Girls	0.17***	0.20***	0.20***	0.20***	0.24***	0.25***	0.25***
Age dummy (reference category=15 years)							
16 years		0.32***	0.33***	0.36***	0.42***	0.43***	0.42***
17 years		0.52***	0.55***	0.59***	0.70***	0.71***	0.71***
18 years		1.06***	1.09***	1.14***	1.28***	1.29***	1.29***
Religion dummy (reference category=Hindu)							
Muslim			0.78***	1.05***	1.07***	1.09***	1.10***
Christian			-0.53***	-0.96***	-0.71***	-0.73***	-7.20***
Caste dummy (reference category=ST)							
SC				-0.17***	-0.11***	-0.06	-0.05
OBC				-0.66***	-0.49***	-0.42***	-0.41***
Others				-1.20***	-0.89***	-0.83***	-0.82***
Class dummies (reference category = Poorest)							
Poorer					-0.49***	-0.47***	-0.47***
Middle					-0.71***	-0.69***	-0.68***
Richer					-1.19***	-1.15***	-1.13***
Richest					-1.95***	-1.89***	-1.86***
Sec-school distance dummy (ref category=less than 1 km)							
1km-2 kms						0.17***	0.16***
2kms-3kms						0.24***	0.21***
3kms-5kms						0.35***	0.31***
More than 5kms						0.49***	0.45***
Sector dummy (reference category = Rural)							
Urban							-0.1***
number of observation	29612	29612	29602	29599	29594	29593	29593
LR chi2	41.55	909.92	1545.87	2312.98	4103.55	4220.20	4229.62
Prob > chi2	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Source: Author's estimates, note: *** indicates significance at 1% ** indicates significance at 5%

Categories	Major reason for not enrolling or dropping out	Rural		Urban	
		Boys	Girls	Boys	Girls
Reason for never enrolling	no tradition in the community	9	38	0	10
Family related reasons	not interested in education	839	510	449	259
	financial constraints	570	418	327	270
	engaged in domestic activities	140	712	54	231
	engaged in economic activities	475	94	191	49
Reasons related to school access	school is far off	22	128	4	10
	timings of educational institution not suitable	0	2	1	0
	inadequate number of teachers	2	2	0	1
Reasons related to classroom practises	quality of teachers not satisfactory	3	7	0	3
	language/medium of instruction used unfamiliar	2	0	0	1
	unable to cope up with studies/failure in studies	162	138	80	59
	unfriendly atmosphere at school	2	4	2	7
Reasons applicable for girls only	non-availability of female teacher	0	6	0	2
	non-availability of girl's toilet	0	2	0	1
	Marriage	0	91	0	37
Reasons related to individual /personal choices	completed desired level/class	29	31	7	24
	preparation for competitive examination	15	6	18	13
	Others	135	177	90	102

Average annual expenditure on education for continuing students in rural-urban areas



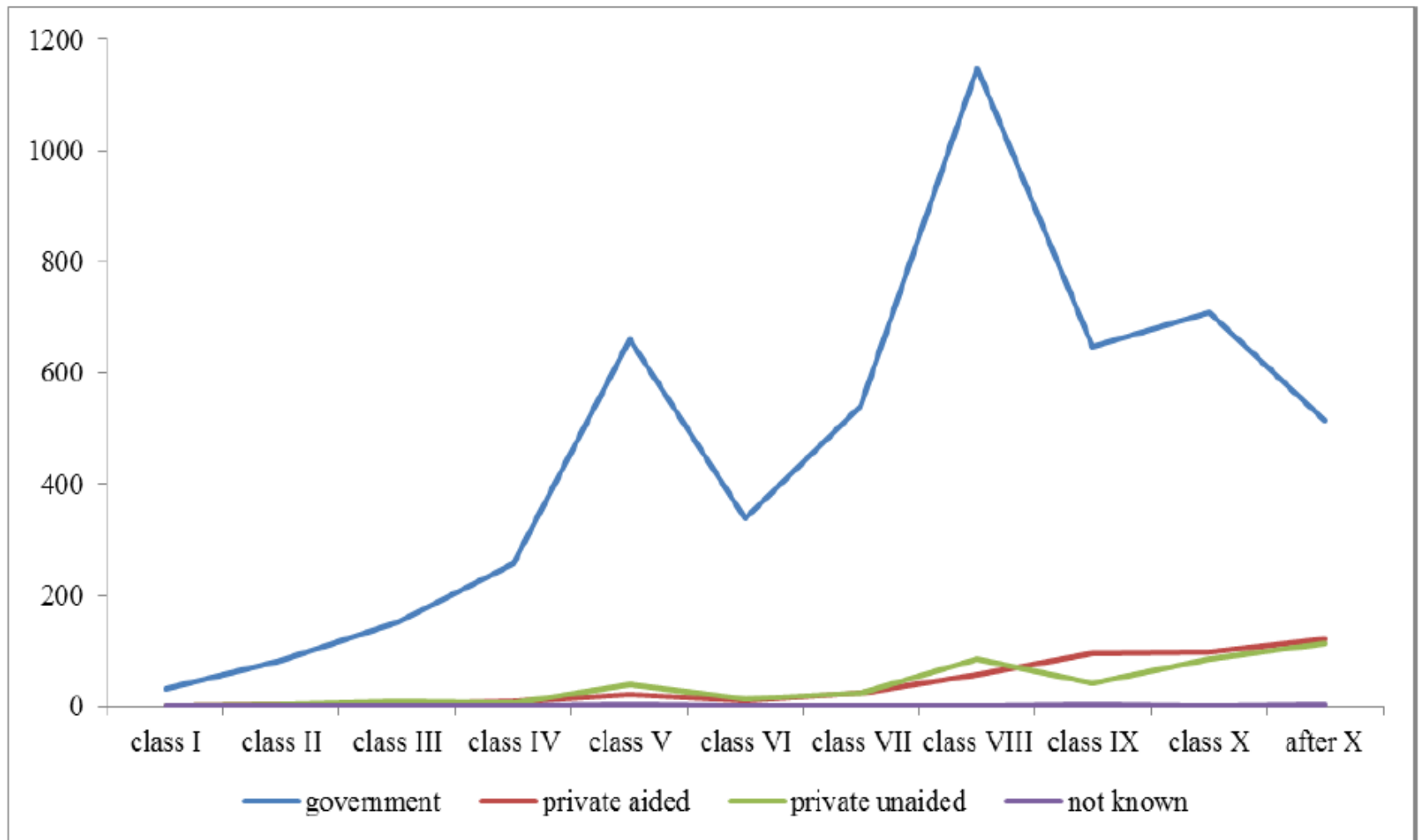
Source: Author's calculation from NSSO 71st round data (2014)

Summary of total annual expenditure on education by types of institution

	Rural				Urban			
	Mean	Std. Dev.	Min	Max	Mean	Std. Dev.	Min	Max
Government	4536	12226	0	354000	11019	24487	0	817000
Private aided	19650	32575	20	656000	26016	37464	30	505020
Private unaided	24428	37889	15	1257500	32397	53019	20	2913000

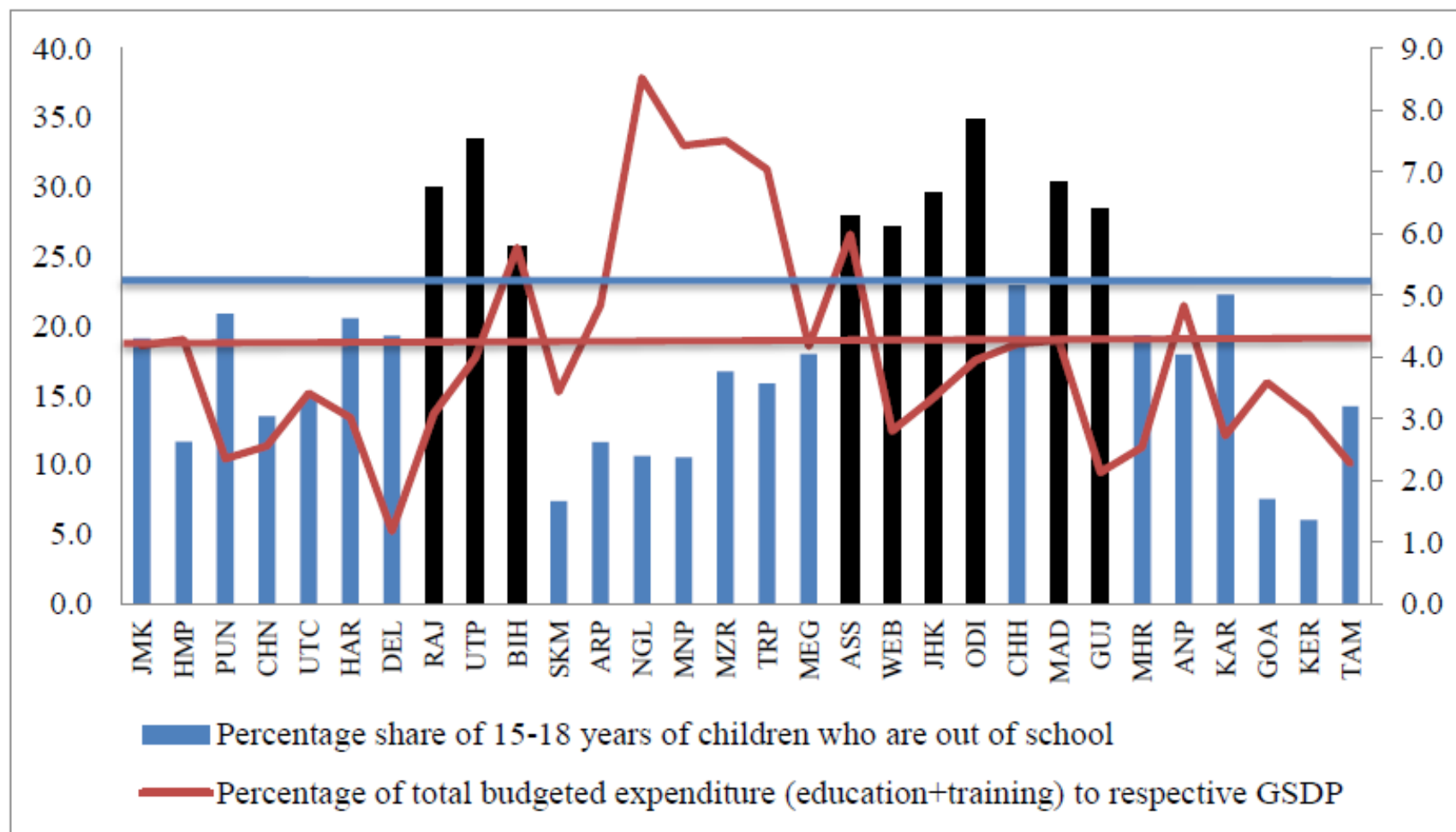
Source: Author's calculation from NSSO 71st round data (2014)

Grade/class completed before dropping out from different types of institutions



Source: Author's calculation from NSSO 71st round data (2014)

State share of out of school children vs. expenditure on education as share of GSDP



Source: Author's calculation from NSSO 71st round data (2014) and 'Analysis of budgeted expenditure on education 2011-12 to 2013-14', GOI, MHRD (2015)