Arunachal Pradesh RURAL

ANALYSIS BASED ON DATA FROM HOUSEHOLDS. 10 OUT OF 16 DISTRICTS

Data is not presented where sample size is insufficient.

Annual Status of Education Report
असर ASER 2016 RURAL
Facilitated by PRATHAM

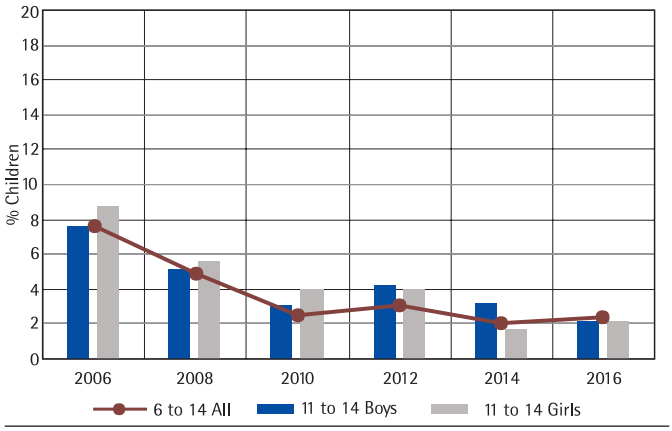
School enrollment

Table 1: % Children enrolled in different types of schools by age group and gender 2016

Age group	Govt.	Pvt.	Other	Not in school	Total
Age 6-14: All	67.9	29.5	0.2	2.4	100
Age 7-16: All	71.0	25.7	0.1	3.1	100
Age 7-10: All	63.0	34.2	0.1	2.7	100
Age 7-10: Boys	61.1	36.6	0.1	2.2	100
Age 7-10: Girls	65.5	31.4	0.2	3.0	100
Age 11-14: All	75.7	21.8	0.2	2.3	100
Age 11-14: Boys	75.7	22.0	0.1	2.2	100
Age 11-14: Girls	76.0	21.5	0.3	2.2	100
Age 15-16: All	80.9	12.2	0.0	6.8	100
Age 15-16: Boys	78.5	13.8	0.0	7.7	100
Age 15-16: Girls	82.8	10.9	0.0	6.3	100

'Other' includes children going to Madarsa and EGS.
'Not in school' includes children who never enrolled or have dropped out.

Chart 1: Trends over time
% Children not enrolled in school by age group and gender 2006, 2008, 2010, 2012, 2014 and 2016



Bars show the proportion of boys and girls age 11-14 who were not enrolled in school in a given year. The line shows how the proportion of children age 6-14 who were not enrolled in school has changed over the period 2006-2016.

Chart 2: Trends over time
% Children enrolled in private schools in Std I-V and Std VI-VIII 2010, 2012, 2014 and 2016

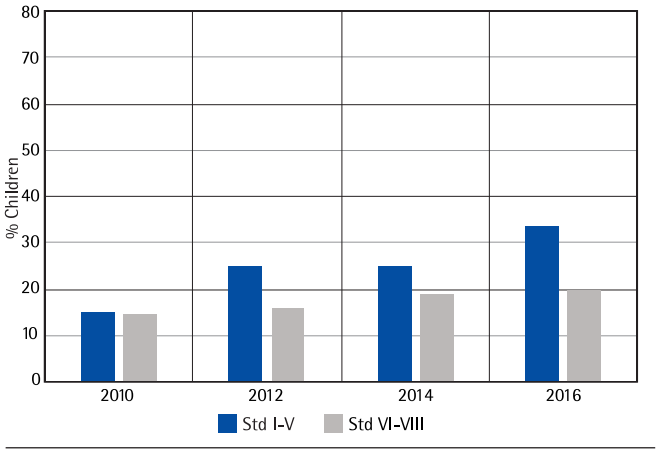


Table 2: Age-grade distribution
% Children in each grade by age 2016

Std \ Age	5	6	7	8	9	10	11	12	13	14	15	16	Total
I	22.8	32.5	23.1	10.0	6.2	5.4							100
II	16.9	18.2	22.1	20.6	12.2	10.1							100
III	3.4		11.6	27.7	28.3	14.4	6.7	7.8					100
IV	5.0			11.6	23.6	29.1	15.1	8.9	6.8				100
V	4.6				9.6	25.8	23.9	16.3	8.9	5.7	5.2		100
VI	4.3					14.0	21.3	27.4	17.5	9.2	6.4		100
VII	3.4						8.7	27.8	29.4	18.1	8.6	4.0	100
VIII	4.1							12.6	26.6	27.1	17.7	12.0	100

This table shows the age distribution for each grade. For example, in Std III, 27.7% children are 8 years old but there are also 11.6% who are 7, 28.3% who are 9, 14.4% who are 10, 6.7% who are 11, and 7.8% who are 12 or older.

Young children in pre-school and school

Table 3: % Children age 3-6 enrolled in different types of pre-school and school 2016

Age	In balwadi or anganwadi	In LKG/ UKG	In school			Out of school or pre-school	Total
			Govt.	Pvt.	Other		
Age 3	22.8	21.4				55.7	100
Age 4	19.1	40.2				40.7	100
Age 5	2.1	4.7	41.8	43.0	0.0	8.5	100
Age 6	1.2	3.3	51.8	37.5	0.2	6.0	100

For 3 and 4 year old children, only pre-school status is recorded.

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Reading

ASER assessments are conducted in the household. The type of school in which children are enrolled (government or private) is also recorded.

Table 4: % Children by grade and reading level
All children 2016

Std	Not even letter	Letter	Word	Std I level text	Std II level text	Total
I	19.0	51.6	21.9	5.3	2.2	100
II	10.0	49.6	27.5	9.0	3.8	100
III	2.0	34.2	36.3	15.7	11.8	100
IV	1.0	16.6	34.9	27.0	20.4	100
V	0.4	11.9	34.5	27.8	25.5	100
VI	0.0	5.7	22.7	33.5	38.1	100
VII	0.4	3.3	12.0	31.4	53.0	100
VIII	0.0	2.1	6.7	23.2	68.1	100

Each row shows the variation in children's reading levels within a given grade. For example, among children in Std III, 2% cannot even read letters, 34.2% can read letters but not words or higher, 36.3% can read words but not Std I level text or higher, 15.7% can read Std I level text but not Std II level text, and 11.8% can read Std II level text. For each grade, the total of these exclusive categories is 100%.

Reading Tool

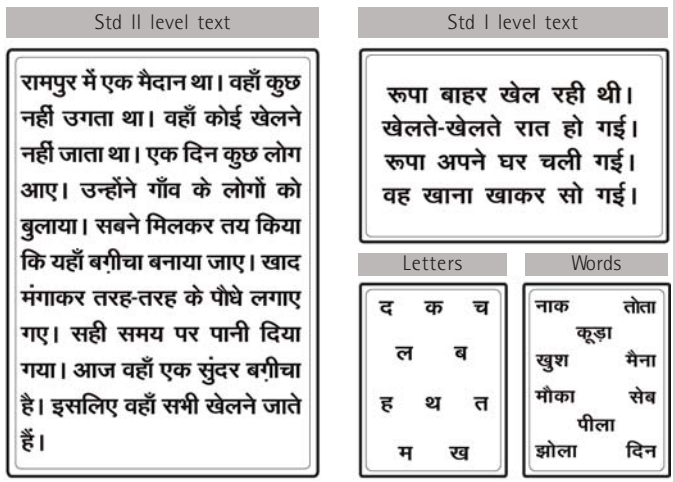


Table 5: Trends over time
Reading in Std III by school type
2010, 2012, 2014 and 2016

Year	% Children in **Std III** who can read Std II level text		
	Govt.	Pvt.	Govt. & Pvt.*
2010	7.2	40.9	11.0
2012	15.5	42.1	21.2
2014	5.8	24.9	10.3
2016	2.3	33.5	11.8

* This is the weighted average for children in government and private schools only.

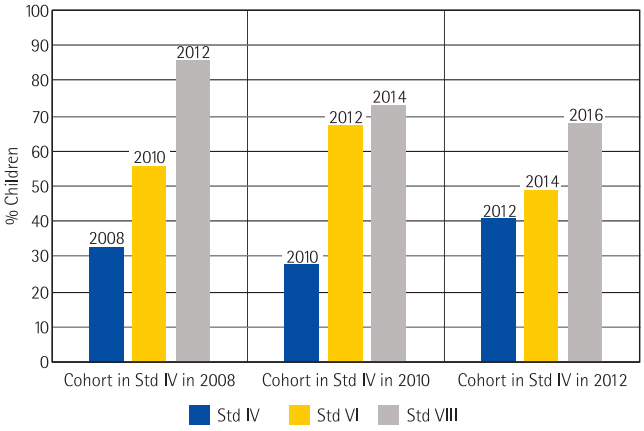
The highest level in the ASER reading assessment is a Std II level text. Table 5 shows the proportion of children in Std III who can read Std II level text. This figure is a proxy for "grade level" reading for Std III. Data for children enrolled in government schools and private schools is shown separately.

Table 6: Trends over time
Reading in Std V and Std VIII by school type
2010, 2012, 2014 and 2016

Year	% Children in **Std V** who can read Std II level text			% Children in **Std VIII** who can read Std II level text		
	Govt.	Pvt.	Govt. & Pvt.*	Govt.	Pvt.	Govt. & Pvt.*
2010	39.3	67.6	41.8	80.2	85.2	80.8
2012	52.1	68.8	55.4	84.4	95.6	85.9
2014	43.4	51.2	44.5	70.5	83.8	72.5
2016	16.7	52.6	25.3	63.1	89.3	68.1

* This is the weighted average for children in government and private schools only.

Chart 3: Trends over time
% Children who can read Std II level text
Cohorts of children in Std IV in 2008, 2010 and 2012



This graph shows the progress of three cohorts from Std IV to Std VIII. For example, the first cohort was in Std IV in 2008, in Std VI in 2010, and in Std VIII in 2012. For this cohort: % children who could read Std II level text in Std IV (in 2008) was 32.7%, and in Std VI (in 2010) was 55.8%. When the cohort reached Std VIII in 2012, this figure was 85.9%. The progress of each of these cohorts can be understood in the same way.

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Arithmetic

ASER assessments are conducted in the household. The type of school in which children are enrolled (government or private) is also recorded.

Table 7: % Children by grade and arithmetic level
All children 2016

Std	Not even 1-9	Recognize numbers		Subtract	Divide	Total
		1-9	10-99			
I	13.1	27.7	53.4	4.7	1.0	100
II	8.3	18.7	59.3	12.3	1.5	100
III	1.6	8.0	58.7	27.8	3.9	100
IV	0.3	2.2	47.2	36.4	14.0	100
V	0.0	1.8	42.9	36.4	19.0	100
VI	0.0	0.7	30.0	42.5	26.8	100
VII	0.0	0.8	17.6	39.1	42.5	100
VIII	0.0	0.3	15.2	29.0	55.5	100

Each row shows the variation in children's arithmetic levels within a given grade. For example, among children in Std III, 1.6% cannot even recognize numbers 1-9, 8% can recognize numbers up to 9 but cannot recognize numbers up to 99 or higher, 58.7% can recognize numbers up to 99 but cannot do subtraction, 27.8% can do subtraction but cannot do division, and 3.9% can do division. For each grade, the total of these exclusive categories is 100%.

Arithmetic Tool

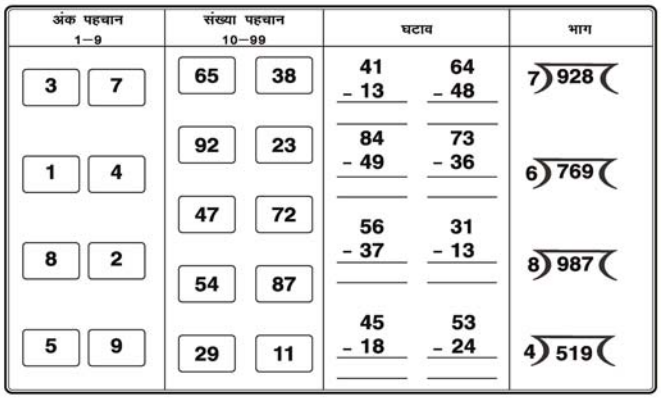


Table 8: Trends over time
Arithmetic in Std III by school type
2010, 2012, 2014 and 2016

Year	% Children in **Std III** who can do at least subtraction		
	Govt.	Pvt.	Govt. & Pvt.*
2010	38.2	70.0	41.7
2012	47.9	70.1	52.6
2014	34.0	47.3	37.1
2016	22.2	53.2	31.6

* This is the weighted average for children in government and private schools only.

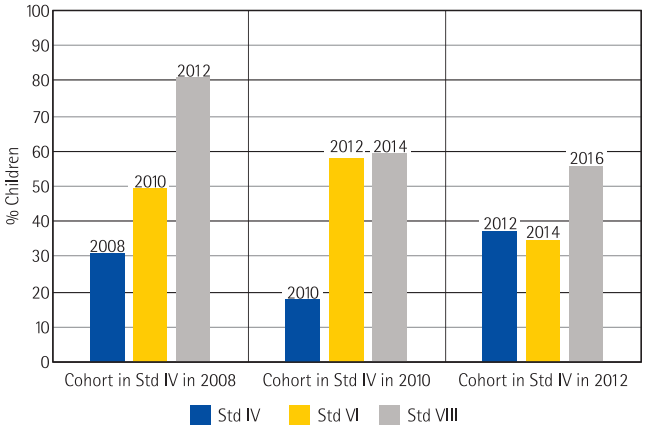
In most states, children are expected to do 2-digit by 2-digit subtraction with borrowing by Std II. Table 8 shows the proportion of children in Std III who can do subtraction. This figure is a proxy for "grade level" arithmetic for Std III. Data for children enrolled in government schools and private schools is shown separately.

Table 9: Trends over time
Arithmetic in Std V and Std VIII by school type
2010, 2012, 2014 and 2016

Year	% Children in **Std V** who can do division			% Children in **Std VIII** who can do division		
	Govt.	Pvt.	Govt. & Pvt.*	Govt.	Pvt.	Govt. & Pvt.*
2010	28.9	60.8	31.7	71.5	78.7	72.3
2012	43.1	61.4	46.7	79.5	90.9	81.1
2014	35.6	36.9	35.8	59.7	58.5	59.5
2016	11.7	41.2	18.7	52.5	68.6	55.5

* This is the weighted average for children in government and private schools only.

Chart 4: Trends over time
% Children who can do division
Cohorts of children in Std IV in 2008, 2010 and 2012



This graph shows the progress of three cohorts from Std IV to Std VIII. For example, the first cohort was in Std IV in 2008, in Std VI in 2010, and in Std VIII in 2012. For this cohort: % children who were at division level in Std IV (in 2008) was 31.1%, and in Std VI (in 2010) was 49.2%. When the cohort reached Std VIII in 2012, this figure was 81.1%. The progress of each of these cohorts can be understood in the same way.

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Reading and comprehension in English

ASER assessments are conducted in the household. The type of school in which children are enrolled (government or private) is also recorded.

Table 10: % Children by grade and reading level in English
All children 2016

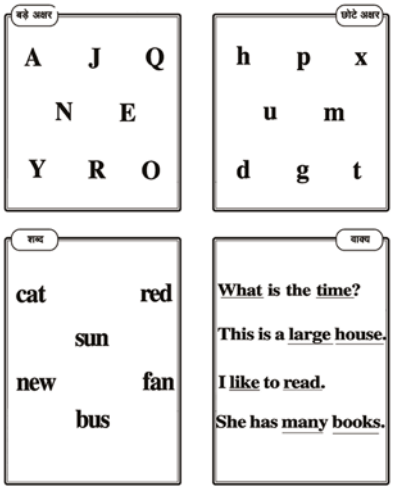
Std	Not even capital letters	Capital letters	Small letters	Simple words	Easy sentences	Total
I	15.3	17.9	45.7	16.5	4.6	100
II	9.3	11.5	47.4	24.7	7.1	100
III	1.6	3.5	38.8	39.0	17.1	100
IV	1.2	0.7	19.0	48.8	30.3	100
V	0.4	0.6	15.1	50.4	33.4	100
VI	0.5	0.4	7.5	47.3	44.3	100
VII	0.1	0.8	3.2	32.6	63.3	100
VIII	0.3	0.2	2.5	21.1	75.9	100

Each row shows the variation in children's reading levels in English within a given grade. For example, among children in Std III, 1.6% cannot even read capital letters, 3.5% can read capital letters but not small letters or higher, 38.8% can read small letters but not words or higher, 39% can read words but not sentences, and 17.1% can read sentences. For each grade, the total of these exclusive categories is 100%.

Table 11: % Children by grade who can comprehend English
All children 2016

Std	Of those who can read words, % children who can tell meanings of the words	Of those who can read sentences, % children who can tell meanings of the sentences
I	62.4	
II	57.2	
III	60.6	83.5
IV	59.0	82.6
V	65.3	82.5
VI	68.6	82.9
VII	67.4	89.4
VIII	66.5	93.0

English Tool



Type of school and paid additional tuition classes

ASER records information about paid additional private tutoring by asking the following question: "Does the child take any paid tuition class currently?" Therefore the numbers given below do not include any unpaid supplemental help in learning that the child may have received.

Table 12: Trends over time
% Children in Std I-V and Std VI-VIII by school type and tuition 2010, 2012, 2014 and 2016

Std	Category	2010	2012	2014	2016
Std I-V	Govt. no tuition	78.5	63.8	67.8	61.2
	Govt. + Tuition	7.9	10.3	8.6	5.0
	Pvt. no tuition	8.9	13.0	16.1	23.8
	Pvt. + Tuition	4.7	12.9	7.6	10.0
	Total	100	100	100	100
Std VI-VIII	Govt. no tuition	80.3	69.8	71.9	73.7
	Govt. + Tuition	8.6	14.4	9.7	6.3
	Pvt. no tuition	7.2	7.3	13.2	13.8
	Pvt. + Tuition	4.0	8.5	5.2	6.2
	Total	100	100	100	100

Table 13: Tuition expenditures by school type
2016

Std	Type of school	% Children in different tuition expenditure categories (in Rupees per month)				
		Rs. 100 or less	Rs.101-200	Rs. 201-300	Rs. 301 or more	Total
Std I-V	Govt.	1.4	17.3	45.5	35.8	100
Std I-V	Pvt.	1.2	11.2	39.4	48.2	100
Std VI-VIII	Govt.	2.9	3.0	14.3	79.9	100
Std VI-VIII	Pvt.	0.9	1.1	16.8	81.2	100

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ANALYSIS BASED ON DATA FROM GOVERNMENT SCHOOLS. 10 OUT OF 16 DISTRICTS

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School observations

In each sampled village, the largest government school with primary sections is visited on the day of the survey. Information about schools in this report is based on these visits.

Table 14: Trends over time
Number of schools visited
2010, 2012, 2014 and 2016

Type of school	2010	2012	2014	2016
Primary schools (Std I-IV/V)	152	103	91	86
Upper primary schools (Std I-VII/VIII)	107	75	98	126
Total schools visited	259	178	189	212

Table 15: Trends over time
Student and teacher attendance on the day of visit
2010, 2012, 2014 and 2016

Primary schools (Std I-IV/V)	2010	2012	2014	2016
% Enrolled children present (Average)	82.8	82.1	83.7	74.1
% Teachers present (Average)	86.1	81.4	84.7	81.5
Upper primary schools (Std I-VII/VIII)	**2010**	**2012**	**2014**	**2016**
% Enrolled children present (Average)	82.0	82.3	85.0	77.6
% Teachers present (Average)	84.2	87.0	82.3	81.0

Table 16: Trends over time
Small schools and multigrade classes
2010, 2012, 2014 and 2016

Primary schools (Std I-IV/V)	2010	2012	2014	2016
% Schools with total enrollment of 60 or less	52.1	55.0	62.1	68.6
% Schools where Std II children were observed sitting with one or more other classes	35.4	31.3	48.3	42.2
% Schools where Std IV children were observed sitting with one or more other classes	28.6	26.4	40.0	38.0
Upper primary schools (Std I-VII/VIII)	**2010**	**2012**	**2014**	**2016**
% Schools with total enrollment of 60 or less	7.1	6.7	15.2	21.1
% Schools where Std II children were observed sitting with one or more other classes	23.7	16.9	30.5	27.6
% Schools where Std IV children were observed sitting with one or more other classes	23.9	12.1	22.2	20.2

School facilities

Table 17: Trends over time
% Schools with selected school facilities
2010, 2012, 2014 and 2016

% Schools with		2010	2012	2014	2016
Mid-day meal	Kitchen shed for cooking mid-day meal	64.0	51.5	57.4	56.0
	Mid-day meal served in school on day of visit	47.1	49.7	57.5	50.5
Drinking water	No facility for drinking water	36.9	44.9	40.1	37.0
	Facility but no drinking water available	9.9	6.2	6.4	12.3
	Drinking water available	53.2	48.9	53.5	50.7
	Total	100	100	100	100
Toilet	No toilet facility	20.8	20.2	30.8	11.9
	Facility but toilet not useable	53.9	44.6	34.1	38.9
	Toilet useable	25.3	35.1	35.1	49.3
	Total	100	100	100	100
Girls' toilet	No separate provision for girls' toilet	60.4	45.6	51.6	34.7
	Separate provision but locked	11.3	23.2	10.1	12.6
	Separate provision, unlocked but not useable	16.2	8.0	13.8	16.8
	Separate provision, unlocked and useable	12.2	23.2	24.5	35.8
	Total	100	100	100	100
Library	No library	87.0	84.1	75.0	65.4
	Library but no books being used by children on day of visit	6.7	11.4	16.9	26.1
	Library books being used by children on day of visit	6.3	4.6	8.2	8.5
	Total	100	100	100	100
Electricity	Electricity connection				57.5
	Of schools with electricity connection, % schools with electricity available on day of visit				72.8
Computer	No computer available for children to use	85.7	85.8	89.8	87.7
	Available but not being used by children on day of visit	6.4	8.5	7.0	11.4
	Computer being used by children on day of visit	8.0	5.7	3.2	1.0
	Total	100	100	100	100

School funds and activities

In each sampled village, the largest government school with primary sections is visited on the day of the survey. Information about schools in this report is based on these visits.

Table 18: Trends over time
% Schools reporting receipt of SSA grants - Full financial year

Full financial year	Maintenance grant	Development grant	TLM grant
April 2010 to March 2011	67.8	63.7	70.0
April 2011 to March 2012	59.8	51.2	60.5
April 2013 to March 2014	69.9	58.9	30.8
April 2015 to March 2016	63.8	47.1	9.5

Table 19: Trends over time
% Schools reporting receipt of SSA grants - Half financial year

Half financial year	Maintenance grant	Development grant	TLM grant
April 2011 to date of survey (2011)	39.6	37.0	36.4
April 2012 to date of survey (2012)	27.6	21.2	37.3
April 2014 to date of survey (2014)	26.4	22.6	19.4
April 2016 to date of survey (2016)	10.9	7.1	2.2

Note for Tables 18 and 19: Grant information was not collected in ASER 2013.

Table 20: % Schools carrying out different activities

Type of activity		April 2013 to date of survey (2014)	April 2015 to date of survey (2016)
Construction	New classroom built	24.3	12.7
Repair	White wash/plastering	34.3	36.2
	Repair of drinking water facility	31.4	27.8
	Repair of toilet	21.4	26.6
Purchase	Mats, Tat patti etc.	23.9	22.9
	Charts, globes or other teaching material	46.0	44.1

Table 21: School Management Committee (SMC) in schools

	2014	2016
% Schools which reported having an SMC	96.1	98.1
Of the schools that have SMC, % schools that had the last SMC meeting		
Before July	36.0	31.4
Between July and September	59.8	62.8
After September	4.3	5.8

Every year schools in India receive three grants. These are the only funds over which schools have any expenditure discretion. Since 2009, ASER has been tracking whether and when this money reaches schools.

How much goes to each school?	For what purpose?
School Maintenance Grant	
(Rs. 5,000 - Rs. 7,500) per school per year if the school has upto 3 classrooms	Maintenance of school building, including whitewashing, bathrooms, hand pump repairs, building, boundary wall, playground etc.
(Rs. 7,500 - Rs. 10,000) per year if the school has more than 3 classrooms	
Note: Primary and Upper Primary schools are treated as separate schools even if they are in the same premises.	
School Development Grant/School Facility Grant	
Rs. 5,000 per year per Primary School (Std I-IV/V)	School equipment, such as blackboards, mats etc. Also to buy chalk, dusters, registers, and other office equipment.
Rs. 7,000 per year per Upper Primary School (Std VI-VIII)	
Rs. 5,000 + Rs. 7,000 = Rs. 12,000 if the school is Std I-VII/VIII	
Note: Primary and Upper Primary schools are treated as separate schools even if they are in the same premises.	
Teaching Learning Material (TLM) Grant	
Rs. 500 per teacher per year for teachers in Primary and Upper Primary schools	To buy teaching aids, such as charts, posters, models etc.
Note: In 2014-15 & 2015-16, Government of India withdrew the TLM grant for most states. This was reinstated in 2016-17.