# INCOME AND ACADEMIC ACHIEVEMENT AMONG ELEMENTARY STUDENTS IN RURAL ODISHA

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#### Abstract

Indian constitution has an objective to guarantee social, political and economic justice to all regardless of caste, creed and religion. When it was framed, it was visualized that, development in education along with other allied sectors will play a vital role in bringing about desirable changes in the country, where in opportunity is provided to develop critical thinking and self-determination. Hence the programmes in India intended to bring in equalization of educational opportunities face specific and unique problems. Lack of access to government schools, lower political participation and representation of underprivileged groups in governance structure, under representation in mainstream economic activities and inequalities in access to credit are possible reasons for educational backwardness. Education represents one way to break out of cycles of poverty and distress, but it is also a by-product of such economic conditions prevails among Dalit children than Non-Dalit counterparts. The study intense to reveal the relationship between Dalit than Non-Dalit children in accordance with Income and Academic Achievement in elementary level of education in Odisha.As education is an important agent of change; it is worth knowing academic achievement among deprived communities. This study and regionspecific data will provide an important data base for understanding the educational achievements and challenges.

Keywords: Dalit, Non-Dalit, Academic Achievement, and Elementary Education

### I. Introduction

Academic achievement of students is a primary concern in the process of formal education and there is a high emphasis on assessment of knowledge and skills developed through the educational system which is largely evaluated at school level through the exams (Goods, 1995; Biswas and Aggarwal, 1971). It is also a feedback mechanism for schools and teaching, but in the Indian context it is looked at as an individual capacity of students.Dalits in rural India are an economically and socially depressed group, with most of the developmental

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indicators like nature of occupation/livelihood, employment rates, poverty rates and literacy rates being worse off than the non-dalit social group. Children of the scheduled castes also face an exclusion from essential services and the incidence of child labour is exceptionally high, especially among dalit girls. In fact, the data provides evidence, that even among families of equal economic standing. Dalit experience higher school drop-out rates and lower access to service facilities as compared tonon-scheduled groups (Nidhi, 2009). Chandidas (1969) in a postindependence study examined the equality ofscheduled castes, with the data from Centre for the Study of Developing Societies (CSDS). After two decades of special concessions to bring them at par with the general population, the scheduled castes remained at the rear end of development. In the agricultural sector, where the scheduled castes were concentrated, their position as compared with that of the non-scheduled castes, was inferior regarding land as well as size of the holdings. Their level of education and their average per-capita income in comparison to the non-scheduled castes was also lower.Poor levels of educational achievement among scheduled castes and scheduled tribes can be best understood in the context of deeply embedded caste and social hierarchies that are enacted and expressed in everyday social interactions of community, school and economic life. Recent studies show that caste-based discrimination continues to be an influential factor in the low educational mobility of both scheduled caste and scheduled tribe groups, despite government programmes that selectively target aid to children from these communities (Secada, 1989).

The academic achievement of children across income groups gives clear evidence that relatively greater proportion of students in higher income havehigher academic achievement and greater proportions in lower economic group have lower scores on academic achievement(see Table 1).

Level of Academic achievement	Up to Rs.	30000	Rs. 30001 and above		
	No. of respondents	%	No. of respondents	%	
Low	39	41.1	8	15.1	
Medium	39	41.1	17	32.1	
High	17	17.8	28	52.8	
Total	95	100.0	53	100.0	

Table 1. Level of Academic Achievement by Family Income of respondents

Cross tabulation of background factors with academic achievement indicates that irrespective of the economic group better performers are at a younger age though the proportion of older group increases in higher economic groups. Across the income group male children shows better academic achievement in both groups, though relatively more females are in higher income group. Similarly more non-dalits are better performers in both income levels though the proportion of dalits slightly increased in higher economic group. It is also observed that in

both groups, better performers are in higher classes of 7<sup>th</sup> and 8<sup>th</sup>, with a relatively higher proportion of better performers in higher standards among higher economic groups and better performers in lower classes for lower income groups. In both economic groups better performers have parents in the age group of 36 to 45 years and father's educated up to secondary level and above. Regarding mother's education primary education is noticeable among lower income groups, and primary and secondary level is significant in higher economic groups. Parental occupation even as agriculture labourers is significant for lower income groups and employment in government or private organisations are important for higher income groups.Better performing students are only in nuclear families of lower income groups while a significant proportion are in joint families in higher income groups. No major difference exists in terms of family size, number of children and academic achievement in both groups. Better performers in lower income group have medium size of peer network while among higher income group; the network size is relatively larger(see Table 2).

Background	<b>Up to Rs. 30000</b>				Rs. 30001 and above			
factors	Lev	el of Academ	ic Achiever	nent	Leve	el of Academi	c Achieven	nent
	Low	Medium	High	Total	Low	Medium	High	Total
Age								
Up to 11 Yrs	7	16	8	31	2	5	10	17
	17.9%	41.0%	47.1%	32.6%	25.0%	29.4%	35.7%	32.1%
12 yrs	16	15	4	35	5	1	10	16
	41.0%	38.5%	23.5%	36.8%	62.5%	5.9%	35.7%	30.2%
13 yrs and above	16	8	5	29	1	11	8	20
	41.0%	20.5%	29.4%	30.5%	12.5%	64.7%	28.6%	37.7%
Gender	•							
Male	20	29	14	63	3	11	18	32
	51.3%	74.4%	82.4%	66.3%	37.5%	64.7%	64.3%	60.4%

Table 2. Level of Academic Achievement and Background factors by Family Income of respondents

Female	19	10	3	32	5	6	10	21
	48.7%	25.6%	17.6%	33.7%	62.5%	35.3%	35.7%	39.6%
Caste								
Non SC	8	23	15	46	6	9	23	38
	20.5%	59.0%	88.2%	48.4%	75.0%	52.9%	82.1%	71.7%
SC	31	16	2	49	2	8	5	15
	79.5%	41.0%	11.8%	51.6%	25.0%	47.1%	17.9%	28.3%
Level of schooling								
5 <sup>th</sup> & 6 <sup>th</sup>	11	17	7	35	2	4	9	15
	28.2%	43.6%	41.2%	36.8%	25.0%	23.5%	32.1%	28.3%
7 <sup>th</sup> & 8 <sup>th</sup>	28	22	10	60	6	13	19	38
	71.8%	56.4%	58.8%	63.2%	75.0%	76.5%	67.9%	71.7%
Parents Age	1							
Up to 35 yrs	8	12	3	23	1	1	5	7
	20.5%	30.8%	17.6%	24.2%	12.5%	5.9%	17.9%	13.2%
36 – 45 yrs	23	18	13	54	6	12	19	37
	59.0%	46.2%	76.5%	56.8%	75.0%	70.6%	67.9%	69.8%
46 yrs and above	8	9	1	18	1	4	4	9
	20.5%	23.1%	5.9%	18.9%	12.5%	23.5%	14.3%	17.0%
Father's education								
Illiterate	3	2	0	5	0	0	1	1

	7.7%	5.1%	.0%	5.3%	.0%	.0%	3.6%	1.9%
Primary	16	12	4	32	1	3	5	9
	41.0%	30.8%	23.5%	33.7%	12.5%	17.6%	17.9%	17.0%
Upper primary	9	7	4	20	1	5	5	11
	23.1%	17.9%	23.5%	21.1%	12.5%	29.4%	17.9%	20.8%
Secondary and	11	18	9	38	6	9	17	32
above	28.2%	46.2%	52.9%	40.0%	75.0%	52.9%	60.7%	60.4%
Mother's education								
Illiterate	3	2	3	8	1	4	1	6
	7.7%	5.1%	17.6%	8.4%	12.5%	23.5%	3.6%	11.3%
Primary	18	11	7	36	5	3	11	19
	46.2%	28.2%	41.2%	37.9%	62.5%	17.6%	39.3%	35.8%
Upper primary	9	11	5	25	0	5	5	10
	23.1%	28.2%	29.4%	26.3%	.0%	29.4%	17.9%	18.9%
Secondary and	9	15	2	26	2	5	11	18
above	23.1%	38.5%	11.8%	27.4%	25.0%	29.4%	39.3%	34.0%
Father's occupation	1							
Agricultural	24	24	7	55	5	10	7	22
Labourers	61.5%	61.5%	41.2%	57.9%	62.5%	58.8%	25.0%	41.5%
Employee in Govt.	7	8	4	19	2	3	14	19
or private sector	17.9%	20.5%	23.5%	20.0%	25.0%	17.6%	50.0%	35.8%

Others	8	7	6	21	1	4	7	12
	20.5%	17.9%	35.3%	22.1%	12.5%	23.5%	25.0%	22.6%
Type of family								
Nuclear Family	38	37	17	92	7	16	22	45
	97.4%	94.9%	100.0%	96.8%	87.5%	94.1%	78.6%	84.9%
Joint Family	1	2	0	3	1	1	6	8
	2.6%	5.1%	.0%	3.2%	12.5%	5.9%	21.4%	15.1%
Family size								
Up to 4	17	16	5	38	5	5	11	21
	43.6%	41.0%	29.4%	40.0%	62.5%	29.4%	39.3%	39.6%
5	13	11	8	32	0	5	6	11
	33.3%	28.2%	47.1%	33.7%	.0%	29.4%	21.4%	20.8%
6 and above	9	12	4	25	3	7	11	21
	23.1%	30.8%	23.5%	26.3%	37.5%	41.2%	39.3%	39.6%
No. of children								
Up to 2	28	26	12	66	4	9	18	31
	71.8%	66.7%	70.6%	69.5%	50.0%	52.9%	64.3%	58.5%
3 and above	11	13	5	29	4	8	10	22
	28.2%	33.3%	29.4%	30.5%	50.0%	47.1%	35.7%	41.5%
Peer Network size								
Up to 2	12	6	3	21	2	3	2	7

	30.8%	15.4%	17.6%	22.1%	25.0%	17.6%	7.1%	13.2%
3	23	29	12	64	2	10	11	23
	59.0%	74.4%	70.6%	67.4%	25.0%	58.8%	39.3%	43.4%
4 and above	4	4	2	10	4	4	15	23
	10.3%	10.3%	11.8%	10.5%	50.0%	23.5%	53.6%	43.4%
Level of parental	involvement							
Low	35	16	2	53	1	3	5	9
	89.7%	41.0%	11.8%	55.8%	12.5%	17.6%	17.9%	17.0%
Medium	4	15	10	29	4	10	9	23
	10.3%	38.5%	58.8%	30.5%	50.0%	58.8%	32.1%	43.4%
High	0	8	5	13	3	4	14	21
	.0%	20.5%	29.4%	13.7%	37.5%	23.5%	50.0%	39.6%
Aspiration								
No	20	12	0	32	3	2	0	5
	51.3%	30.8%	.0%	33.7%	37.5%	11.8%	.0%	9.4%
Yes	19	27	17	63	5	15	28	48
	48.7%	69.2%	100.0%	66.3%	62.5%	88.2%	100.0%	90.6%
Good performer	peer							
None	29	34	15	78	7	16	23	46
	74.4%	87.2%	88.2%	82.1%	87.5%	94.1%	82.1%	86.8%
1 and 2	9	3	2	14	1	1	4	6

	23.1%	7.7%	11.8%	14.7%	12.5%	5.9%	14.3%	11.3%
3 and above	1	2	0	3	0	0	1	1
	2.6%	5.1%	.0%	3.2%	.0%	.0%	3.6%	1.9%
Best friend peer	<u> </u>							
None	17	20	10	47	2	9	15	26
	43.6%	51.3%	58.8%	49.5%	25.0%	52.9%	53.6%	49.1%
1 and 2	20	15	7	42	6	7	11	24
	51.3%	38.5%	41.2%	44.2%	75.0%	41.2%	39.3%	45.3%
3 and above	2	4	0	6	0	1	2	3
	5.1%	10.3%	.0%	6.3%	.0%	5.9%	7.1%	5.7%
Same Caste peer	1							
None	3	2	1	6	2	1	1	4
	7.7%	5.1%	5.9%	6.3%	25.0%	5.9%	3.6%	7.5%
1 and 2	20	9	5	34	3	3	8	14
	51.3%	23.1%	29.4%	35.8%	37.5%	17.6%	28.6%	26.4%
3 and above	16	28	11	55	3	13	19	35
	41.0%	71.8%	64.7%	57.9%	37.5%	76.5%	67.9%	66.0%
Total	39	39	17	95	8	17	28	53

In lower income groups more students with high academic achievement have medium level of parental involvement while the reverse is true for higher income groups. In lower income group low academic achievers also have an overwhelming proportion of less involved parents whereas in higher economic groups even lowperforming students have their parent's involved at a medium or higher level. Irrespective of the economic group, aspiration's of students play a significant role in academic achievement. A common observation noticed among both groups is that

a greater proportion of high performers have fewer good performers in the friendship group and best friends in the peer network but more good performershave a high composition of same caste peers. These are due to the general availability and environmental condition prevailing in the social setting.

Further correlation was computed using the total scores of academic achievement and the correlation values shows that aspiration of students is the significant variable across both income groups. Age of the students, gender, social category, father's education and level of parental involvement are other significantly associated variables for the respondents of lower income group(see Table 3). The regression results with total scores of academic achievement shows that social category, mother's educational position, level of parental involvement and aspiration are significant for academic achievement among lower income groups. Among higher income groups, aspiration has an influential role in academic achievement(see Table 4).

Background factors	Up to Rs	s. 30000	<b>Rs. 3000</b> 1	and above	
	Academic Achievement       r value     Sig		Academic Achievement		
			r value	Sig	
Age	226*	.028	066	.639	
Gender	261*	.011	154	.271	
Caste	508**	.000	152	.277	
Education	122	.237	077	.586	
Parent's age	069	.504	082	.557	
Father's education	.223*	.030	091	.519	
Mother's education	030	.770	.195	.162	
Father's occupation	.125	.227	.257	.063	
Family size	.071	.491	.058	.681	

 Table 3. Correlates of Academic Achievement and Background factors by Family Income of respondents

No. of children	.022	.830	120	.391
Peer network size	.114	.269	.185	.184
Level of Parental Involvement	.574**	.000	.089	.528
Aspiration	.383**	.000	.431**	.001
Good performer peer	131	.205	.125	.372
Best friend peer	106	.306	100	.477
Same caste peer	.196	.057	.218	.118
N	95		53	

\*\* Significant at 0.05 level

\* Significant at 0.10 level

## Table 4. Regression results of Academic Achievement and Background factors by Family Income of respondents

Background factors	Up	to Rs. 300	00	Rs. 30001 and above			
	Academic Achievement			Academic Achievement			
	Beta value	Sig	R square	Beta value	Sig	R square	
Age	079	.488		245	.263		
Gender	109	.190		097	.554		
Caste	315**	.005		072	.694		
Education	067	.542		.140	.518		
Parent's age	107	.163		006	.970		
Father's education	003	.972		219	.211		

Mother's education	158*	.058		.164	.311	
Father's occupation	.064	.445	•	.175	.235	
Family size	087	.316	•	.128	.492	
No. of children	.035	.683	.478	255	.149	.175
Peer network size	.067	.443	(47.8%)	.178	.226	(17.5%)
Level of Parental Involvement	.408***	.000	•	024	.902	
Aspiration	.165*	.054	•	.394*	.025	
Good performer peer	078	.339		.069	.628	
Best friend peer	.047	.579		.009	.953	
Same caste peer	.143	.078		.247	.080	
N	95			53		

\*\*\* Significant at 0.01 level

\*\* Significant at 0.05 level

\* Significant at 0.10 level

The regression results show that irrespective of the level of income, aspirations of the children positively contribute for better academic achievement of the children. Clear aspirations and working towards the goals are important and similar caste peer network provides them the space to share similar views and aspirations.

Among lower income group, the caste of the respondents, mother's education and level of parental involvement are significant variables. Even among lower income groups, children in non-dalit families are performing better. The caste compulsions, ample availability of frame of references in non-dalit castes and high value attributed for education are operative in lower income groups as well. Among lower income groups, mother's education also becomes an important resource and facilitating factor for better academic achievement of children. Parental gain in education, especially mother's is a supportive aspect for reinforcement for children. In the lower income groups parental involvement is highly valuable and found to have a highly significant impact. Despite the low availability of other resources, parental involvement has a significant role for children's better academic achievement and sustainability.

Education expands the knowledge and necessary factors to escape poverty and social oppression and social inequality (Allenand Hood, 2000). The observation that dalit households are considerably poorer is largely due to the fact that they are less likely to own land (Platteau, 1992 andDeshpande, 2000), and their relative lack of education prevents them from obtaining the rate of return that non-dalit secure (Foster and Rosenzweig, 1996). Many of the inter-community inequalities that vitiate Indian society could be ameliorated by greater equality in the distribution of educational outcomes between communities.

### II. Conclusion

Irrespective of the annual family income the aspirations of students provide better chances for academic achievement. Among lower income groups, non-dalit students, children whose mothers are relatively better educated and those receiving high parental involvement perform better. Lower income groups have several options where intervention is possible for better academic achievement. The Annual income of the family also has a significant impact on the children's academic achievement. With families earning better income, the children are able to academically perform better. With higher income, parents spend more on the children's future, such as books, spend time with them, motivate, provide a suitable study environment at home and parents have better financial, educational and social capital resources which are closely linked to children's academic performance. Lower income families have to prioritise their allocation to the immediate needs such as daily food, kinship obligatory expenditure, medical expenses etc.

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