

# Contents

	Page
Chapter II : Historical Genealogy of the SLC Examination System	1
Annex 1.    Chronology	1
Annex 2.    SLC Curriculum	2
Annex 3.    Parallel SLC Systems	3
Chapter IV : Equity Analysis of SLC Examination	4
Annex 1.    NER by Gender and Eco-Development Regions	4
Annex 2.    HDI, Literacy Rates and the SLC Pass %in 2004 at the District	5
Chapter IX : Financial Analysis	7
Annex 1A.   Annual Household Expenditure per Student at Lower Secondary Level in Public Schools, 2061	7
Annex 1B.   Annual Household Expenditure per Student at Secondary Level in Public Schools, 2061	7
Annex 2A.   Annual Household Expenditure per Student at Lower Secondary Level in Private (Institutional) Schools, 2061	8
Annex 2B.   Annual Household Expenditure per Student at Secondary Level in Private (Institutional) Schools, 2061	8
Annex 3.    Estimated Income and Expenditure of The Office of Controller of Examination ( 2060/61 )	9
Annex 4.    Summary of Unit Cost Estimates	10
Annex 5.    Rates of Fees in Public Schools, 2004 (2061)	11
Annex 6.    Rates of Fees in Private (Institutional) Schools 2004 (2061)	13
Chapter X: Determinants of Student Performance in the SLC Exams	14
Annex 1.    Descriptive statistics	14
Annex 2.    OLS Regression Results for Aggregate SLC	16
Annex 3.    Ranking of Statistically Significant Coefficients in Model (5)	17
Annex 4.    Logic Regression Results for Aggregate SLC Performance Dependent variable: pass/fail status of students (1=pass, 0=fail)	20
Annex 5.    OLS Regression Results for Each of the Six Compulsory Subjects	22
Annex 6.    OLS Regression Results for Each of the Six Compulsory Subjects	26
Annex 7.    Consistency among the Subject-wise Regressions	28
Annex 8.    Number of Sample Schools in Each Sample District	29
Annex 9.    Descriptions of context variables	30
Annex 10.   Descriptions of student input variables	31
Annex 11.   Descriptions of family input variables	32
Annex 12.   Descriptions of school and teacher input variables	33
Annex 13.   Descriptions of school process variables	34

Chapter XI : Case Study of Effective and Ineffective Schools	35
Annex 1. School Traits and Practices	35
Annex 2. Brief Profile of Case Schools	36

## Chapter II : Historical Genealogy of the SLC Examination System

### Annex 1. Chronology

1825	A scholarship of fifty rupees a month established by premier Bhimsen Thapa for Nepali students to study English in India
1854	The first western - style school Durbar School (Palace School) started in the palace of the Maharaja Jung Bahadur Rana
1891	Admission to Durbar School was made open for children of the commoners
1854-1918	Durbar School affiliated with Calcutta University
1929-1933	Durbar School and Tri-Chandra College (the only college in Nepal then) affiliated with Patna University. (SLC exams conducted by Patna University for Nepali students for period 1929-1933)
1934	SLC Board established as the secretariat of the Office of the Controller of Examinations (OCE). (First SLC Examination conducted for 33 students with one absent)
1940	First Education Ordinance issued, setting the norms for two exams every year twice a year.
1952	Board of Education established to prepare a long-range plan for educational development and systematize the uncontrolled growth of educational institutions in Nepal under local initiative
1956	National Education Planning Commission (NNEPC) established as per the recommendation of the Board of Education
1961	All-Round National Education Committee (ARNEC) formed to integrate education with the Panchayat philosophy.
1971	National Education System Plan (NESP) launched introducing internal assessment at all levels of education and decentralizing the management of SLC examinations.
1993	Changes made in the structure of school education by defining Grade 9-10 instead of 8-10 as secondary education
1997-1998	Secondary Education Perspective Plan (SEEP) prepared under the Secondary Education Development Project (SEDP, 1997) proposing a number of strategies for bringing changes in the SLC system. The changes proposed include introduction of letter grading, doing away with the send-up examination at the end of Grade 9 and giving students wide range of choices in optional subjects
1998	High Level National Education Commission suggests a number of reform measures to improve SLC examination system including rationalization of SLC exams, development of OCE as an autonomous institution and holding of SLC exams at the end of Grade 12
2001	Report presented to the Ministry of Education and Sports by a committee working on SLC reform. Recommendations to reform the technical aspects of SLC include making specification grids available to teachers, an establishing 2-item bank and introducing letter grading.

**Annex 2. SLC Curriculum**

The SLC curriculum has undergone changes from time to time. Since the copies of all sets of curricula (from 1934 to 2003) are not readily available even at OCE, only the curricula of four different periods are listed below.

Year	Subject	Full Marks	Pass Marks	Remarks
1934	English I & II Vernacular	200	75	Minimum 30 marks in each paper
	Comp. Mathematics	100	36	
	Comp. Sanskrit	100	30	
	Comp. History	100	30	
	Comp. Geography	100	30	
	Optional subject	100	30	
	Full Marks	100	25	
1944	English I & II	200	75	Minimum 30 marks in each paper
	Elementary Nepali	100	36	
	Comp. Mathematics	100	30	
	Oriental Language	100	30	
	Gen. Science or Domestic Science	100	30	
	History or Geography	100	30	
	Extra - Optional	100	30	
Full Marks	100	25		
1947	English I & II	200	75	Minimum 30 marks in each paper
	Compulsory Nepali	100	36	
	Mother Tongue	100	36	
	Comp. Mathematics	100	30	
	Comp. Sanskrit	100	30	
	Comp. History	100	30	
	Comp. Geography	100	30	
	Additional Subject	100	25	
Full Marks	900			
1957	English I & II	200	75	Minimum 30 marks in each paper
	Elementary Nepali & Sanskrit	100	36	
	Comp. Mathematics	100	30	
	Oriental Language	100	36	
	General Science or Domestic Science	100	30	
	History or Geography	100	30	
	Extra - Optional	100	25	
Full Marks	800			

### Annex 3. Parallel SLC Systems

Considering the high rates of failure at the SLC examination and with a view to introduce simplified courses of study, two educationists had started separate alternative examination systems more or less equivalent to the regular SLC examination system. Mr. Gopal Pandey, the Chairperson of Nepali Shikshya Parishad conducted an examination known as Prabeshika Parikshya, during 1953-1973 (2010-2030 BS). The courses of study, weightage, and pass marks of this examination were as follows:

Subject	Full Marks	Pass Marks
Nepali I	100	30
Nepali II	100	30
Nepali III	100	30
Arithmetic	50	10
Ain Shresta	50	10
History or Geography	100	30
Civics	100	30
Optional Nepali or Optional English	100	30
General Knowledge (Compulsory)	100	30
Full Marks	800	

A look at the courses indicates the heavy emphasis given to the learning of Nepali language. There were four papers in Nepali, including Optional Nepali. Other features were the low priority given to the English, a subject in which most of the candidates failed. Other subjects were Arithmetic instead of Mathematics (also a subject with a heavy rate of failure), Ain Shresta for acquainting students with the laws of the land and the skills of book-keeping, Civics for education on the rights and responsibilities of citizens in a democratic environment recently set up in the country, and General Knowledge. The purpose of this parallel system was more to prepare graduates for employment and self-employment and less for

higher education. Obviously, for those unable to pursue further education or unlikely to do so, this alternative system offered a good opportunity.

Gyaneshwar Mishra, a teacher at a high school at Birgunj, started another system in 1961 (Registrar of the *Nepal Rasthriya Vidyapith*). The Vidyapith system examined students in eight subjects with total weightage of 800 marks and examinations continued for 13 years, from 1961 to 1973 (2018-2030 BS).

Both pioneers of the alternative SLC system made immense efforts to get their systems recognized by the government as equivalent to the SLC. Since the recognition didn't follow, the two systems were discontinued after 1973.

## Chapter IV : Equity Analysis of SLC Examination

### Annex 1: NER by Gender and Eco-Development Regions

	Total	Primary		Lower Secondary			Total	Secondary	
		Girls	Boys	Total	Girls	Boys		Girls	Boys
Eastern Dev. Region	80.8	77.0	84.5	48.8	45.7	51.8	34.7	32.8	36.5
Eastern Mountains	90.2	87.8	92.4	49.2	45.7	52.7	28.4	26.2	30.6
Eastern Hills	91.3	91.5	91.2	54.2	52.6	55.7	30.1	27.9	32.4
Eastern Tarai	74.4	68.3	80.3	45.9	41.8	49.7	38.3	36.8	39.8
Central Dev. Region	79.8	70.8	88.4	41.1	35.8	45.9	33.9	30.1	37.5
Central Mountains	91.7	89.8	93.6	41.7	36.2	47.1	18.6	15.8	21.2
Central Hills	88.6	85.3	91.9	40.0	34.9	44.9	28.1	25.0	31.2
Central Tarai	70.7	56.3	84.2	28.7	23.0	33.5	28.2	22.5	33.2
Western Dev. Region	86.7	83.0	90.3	47.8	47.1	48.6	30.4	28.0	32.9
Western Mountains	90.1	93.9	86.2	30.7	29.9	31.5	16.2	15.8	16.6
Western Hills	92.7	91.8	93.6	56.3	55.4	57.2	33.6	31.0	36.2
Western Tarai	77.7	69.6	85.4	34.6	33.6	35.5	24.7	22.3	27.0
Mid-Western Dev. Region	88.4	82.1	94.6	35.9	29.7	41.6	15.8	12.1	19.4
Mid-Western Mountains	76.0	60.1	92.0	28.6	16.6	39.6	14.0	6.6	20.8
Mid-Western Hills	90.2	85.4	95.0	37.3	30.6	43.5	15.9	12.1	19.7
Mid-Western Tarai	89.4	83.7	94.8	35.3	30.4	39.9	15.8	12.7	18.9
Far-Western Dev. Region	89.5	84.1	94.7	34.4	27.0	41.3	18.8	13.3	24.2
Far-Western Mountains	88.8	82.3	95.1	30.3	21.4	39.0	18.1	11.3	24.6
Far-Western Hills	88.9	80.4	97.3	34.9	23.5	45.6	16.7	9.4	23.9
Far-Western Tarai	90.1	87.6	92.6	35.5	31.7	39.0	20.7	17.1	24.3
Nepal	83.5	77.5	89.4	42.9	38.7	46.8	29.5	26.3	32.7

**Annex 2. HDI, Literacy Rates and the SLC Pass %in 2004 at the District Level**

District Name	Eco-Development Region	HDI	Total Literacy rate 2001	Male Literacy Rate 2001	Female Literacy Rate 2001	Male %	Pass Female %	Pass Total Pass%
Achham	2. Far western hill	0.350	33.8	54.1	16	26.6	23.6	25.8
Arghakhanchi	8. Western hill	0.471	56.1	67.2	46.9	50.4	34.9	43.3
Baglung	8. Western hill	0.492	61.7	73.1	52.3	48.1	36.8	43.1
Baitadi	2. Far western hill	0.391	51.9	71.5	33.8	29.9	22.2	27.6
Bajhang	1. Far western mountain	0.333	35.5	57.6	15.2	54.1	46.7	52.8
Bajura	1. Far western mountain	0.310	34.1	51.2	17.3	16	12.5	15.2
Banke	6. Mid western Tarai	0.479	57.8	66	49.2	46.5	40.6	44.2
Bara	12. Central Tarai	0.465	42.7	55.2	29.1	31.6	26.5	29.9
Bardia	6. Mid western Tarai	0.429	45.7	55.5	35.9	26.2	13.3	21.2
Bhaktapur	16. KTM	0.595	70.6	81.1	59.6	74.4	60.9	68.3
Bhojpur	14. Eastern Hill	0.472	54.8	66.1	44.4	24.3	15.3	20.2
Chitwan	12. Central Tarai	0.518	71.1	79.3	63	66.8	52.4	60.5
Dailekh	5. Mid western hill	0.381	48	64.7	32.3	11.5	5.9	9.4
Dadeldhura	2. Far western hill	0.434	51.9	72.2	33.3	32.4	24.2	29.8
Dang	6. Mid western Tarai	0.409	58	69.3	46.9	53	39.1	47.9
Darchula	1. Far western mountain	0.424	49.5	67.4	32.5	28.4	18.3	24.5
Dhading	11. Central Hill	0.410	43.7	53.9	34	53.7	38.8	47.4
Dhankuta	14. Eastern Hill	0.507	64.5	74.5	54.5	29.4	19.5	24.7
Dhanusha	12. Central Tarai	0.449	48.7	60.1	36.3	34.3	26	31.6
Dolakha	10. Central Mountain	0.450	51.1	64	38.8	42.1	26.2	35.7
Dolpa	4. Mid western mountain	0.371	35	49.6	19.8	14.6	27.3	18.3
Doti	2. Far western hill	0.402	43.7	61.2	26	33.5	16.4	28.9
Gorkha	8. Western hill	0.454	54.3	64.4	45.7	84	70.1	78.1
Gulmi	8. Western hill	0.467	57.8	70.1	48.1	61.7	52.2	57.3
Humla	4. Mid western mountain	0.367	27.1	41.3	11.8	0.8	0	0.8
Illam	14. Eastern Hill	0.521	66.5	74.4	58.6	61.2	45.1	54.2
Jajarkot	5. Mid western hill	0.343	39.5	49.4	29.1	16.8	13.6	15.8
Jhapa	15. Eastern Tarai	0.494	67.1	75.6	58.8	50.8	32.1	42.6
Jumla	4. Mid western mountain	0.348	32.5	47	16.8	28	39.5	30.4
Kailali	3. Far western Tarai	0.442	52.6	64	41	45.4	35.7	42.1
Kalikota	4. Mid western mountain	0.322	38.5	54.2	17.8	14.9	8.5	13
Kanchanpur	3. Far western Tarai	0.463	60.1	72.8	47.2	37.4	19	30
Kapilvastu	9. Western Tarai	0.437	41.8	53.3	29.5	29.2	17.1	24.3
Kaski	8. Western hill	0.593	72.1	83.2	61.8	74.3	60.2	68
Kathmandu	16. KTM	0.652	77.2	86.5	66.6	79.6	72.5	76.3
Kavrepalanchok	11. Central Hill	0.543	64	75.7	52.8	52.7	32.1	43.6
Khotang	14. Eastern Hill	0.442	50.2	62.3	38.8	17.4	13.8	15.8
Lalitpur	16. KTM	0.588	70.9	81	60.4	73.4	65.5	69.7
Lamjung	8. Western hill	0.492	56.9	69	46.3	70.2	49	61.2
Mahottari	12. Central Tarai	0.407	34.7	45.9	22.4	34.5	23	31
Makwanpur	12. Central Tarai	0.479	63.4	72.6	53.9	56.8	47.2	52.9
Manang	7. Western mountain	0.502	60.4	67.3	52.7	42.9	65.8	54.8
Morang	15. Eastern Tarai	0.531	57	67.1	46.8	52	40.1	46.8
Mugu	4. Mid western mountain	0.304	28	45.1	9.3	5.2	2.9	4.8
Mustang	7. Western mountain	0.482	52.1	61.1	41.1	62.5	78.3	69.1
Myagdi	8. Western hill	0.498	56	67.9	45.9	75.8	63.8	70.7
Nawalparasi	9. Western Tarai	0.482	53.3	66	40.9	55.8	36.1	46.9

District Name	Eco-Development Region	HDI	Total Literacy rate 2001	Male Literacy Rate 2001	Female Literacy Rate 2001	Male %	Pass Female %	Pass Total Pass%
Achham	2. Far western hill	0.350	33.8	54.1	16	26.6	23.6	25.8
Arghakhanchi	8. Western hill	0.471	56.1	67.2	46.9	50.4	34.9	43.3
Baglung	8. Western hill	0.492	61.7	73.1	52.3	48.1	36.8	43.1
Baitadi	2. Far western hill	0.391	51.9	71.5	33.8	29.9	22.2	27.6
Bajhang	1. Far western mountain	0.333	35.5	57.6	15.2	54.1	46.7	52.8
Nuwakot	11. Central Hill	0.463	51.4	62.4	40.7	37.2	25.4	32.2
Okhaldhunga	14. Eastern Hill	0.481	49.3	63.6	36.3	37.3	33.1	35.4
Palpa	8. Western hill	0.486	66.2	76.2	57.8	47.1	28.2	38.2
Panchthar	14. Eastern Hill	0.484	55.4	65.7	45.6	30.5	16.7	23.5
Parbat	8. Western hill	0.504	57	68.2	47.7	66.9	58.2	62.6
Parsa	12. Central Tarai	0.448	42.6	55.5	28.2	61.2	53.4	58.7
Pyuthan	5. Mid western hill	0.416	46.9	62.4	34	53	50.1	51.8
Ramechhap	11. Central Hill	0.434	39.4	53.8	26.6	43.8	33.5	39.4
Rasuwa	10. Central Mountain	0.394	34.3	42.8	24.8	50.8	38.7	45.6
Rauthat	12. Central Tarai	0.409	32.7	42.9	21.7	21.5	19.2	20.7
Rolpa	5. Mid western hill	0.384	37.5	53.1	23.1	25.9	10.1	20.5
Rukum	5. Mid western hill	0.386	40.3	51	29	19.2	16	18.1
Rupandehi	9. Western Tarai	0.546	66.2	76.2	55.9	66.5	50	59.7
Salyan	5. Mid western hill	0.399	48.5	60.2	36.2	25.7	19	23.4
Sankhuwasabha	13. Eastern mountain	0.481	54.2	63.7	45.1	41.8	30.4	37
Saptari	15. Eastern Tarai	0.453	49.8	63.2	35.5	33.6	23.7	30.2
Sarlahi	12. Central Tarai	0.408	36.5	46.9	25.4	36.2	27.5	33
Sindhuli	11. Central Hill	0.469	50.5	62.6	38.5	36.7	25.1	32
Sindhupalchok	11. Central mountain	0.414	40.6	51.8	29.5	58.1	38.8	50.2
Siraha	12. Eastern Tarai	0.427	40.7	53.6	27.1	28.1	16.2	23.9
Solukhumbu	13. Eastern mountain	0.479	45.9	56.7	35.5	30.4	15	24
Sunsari	15. Eastern Tarai	0.500	60.6	70.9	50.3	46.2	34.4	40.9
Surkhet	5. Mid western hill	0.486	62.7	73.9	51.7	20.7	10.7	16.5
Syangja	8. Western hill	0.535	66.7	77.9	57.7	62.4	42.2	53.1
Tanahu	8. Western hill	0.524	62	72.6	53	63.1	48.8	57
Taplejung	13. Eastern mountain	0.467	52.6	62.9	42.8	36.3	22	59.6
Tehrathum	14. Eastern Hill	0.523	59.3	71.3	48.2	49.3	46.9	48.2
Udayapur	14. Eastern Hill	0.488	53.6	64.8	42.5	42.7	30.7	37.5

## Chapter IX : Financial Analysis

### Annex 1A . Annual Household Expenditure per Student at Lower Secondary Level in Public Schools, 2061

in Rs.

Particulars	Vishwa Niketan Sec.School, Katmandu	Patan High School, Lalitpur	Ratna Rajya Sec. School, Ktm.	Kanti Iswori Sec. School, Ktm.	Rasuwa Sec. School, Rasuwa	Kalinchok Sec. School, Dolakha	Sri Pokhariya Sec. School, Biratnagar	Mahendra Sec. School, Biratnagar	Tri Sec. School, Nepalgunj	Annapurna Sec. School, Morang	Average
1. Admission Fees (New)	100			933	100	93	105	100	83	20	153
2. Tuition Fees ( Annual ) (Average of related grades)	630		1117	250		470	467	420	460		381
3. Examination Fees	167	275	100		65	40	30	50	105	76	91
4 Other School Fees	1509	625									213
<b>Total</b>	<b>2406</b>	<b>900</b>	<b>1217</b>	<b>1183</b>	<b>165</b>	<b>603</b>	<b>602</b>	<b>570</b>	<b>648</b>	<b>96</b>	<b>839</b>

Note: (1) Maximum tuition fee ( annual) Rs. 1,117, minimum Rs. 250 (2) Percentage of Admission, Tuition, and Examination Fees: 74.6, percentage of 'other fees' 25.4% (3) Eight of the 10 schools do not charge 'other school fees'.

### Annex 1B. Annual Household Expenditure per Student at Secondary Level in Public Schools, 2061

in Rs.

Particulars	Vishwa Niketan Sec.School, Katmandu	Patan High School, Lalitpur	Ratna Rajya Sec. School, Ktm.	Kanti Iswori Sec. School, Ktm.	Rasuwa Sec. School, Rasuwa	Kalinchok Sec. School, Dolakha	Sri Pokhariya Sec. School, Biratnagar	Mahendra Sec. School, Biratnagar	Tri Sec. School, Nepalgunj	Annapurna Sec. School, Morang	Average
1. Admission Fees ( New )	100			1000	100	130	105	100	100	35	167
2. Tuition Fees ( Annual ) (Average of related grades)	950		XX	300		650	600	500	560		504
3. Examination Fees	250	300			75	50	35	50	108	130	100
4 Other School Fees	2110	800									291
<b>Total</b>	<b>3410</b>	<b>1100</b>	<b>1475</b>	<b>1300</b>	<b>175</b>	<b>830</b>	<b>740</b>	<b>650</b>	<b>768</b>	<b>165</b>	<b>1061</b>

XX = collected as help from parents

Note: (1) Maximum tuition fees (Annual): Rs 1475, Minimum Rs 300 (2) Percentage of admission, tuition and examination fees:72.6 percentage of 'other fees' 27.4 (3) Eight of the 10 schools do not charge 'other school fees'.

**Annex 2A. Annual Household Expenditure per Student at Lower Secondary Level in Private (Institutional) Schools, 2061**

In Rs.

Particulars	Bhanubhakta Memorial School, Kathmandu	Kavre Sec. School, Kavre	Bal Kalyan School, Biratnagar	Devkota Memorial School, Biratnagar	Angels High School, Nepalgunj	Jaya Bageshwori Sec. School, Nepalgunj	Average
1. Admission Fees ( New )	1667	400	550	1000	480	200	<b>716</b>
2. Tuition Fees ( Annual )							
Average of related grades	7367	5550	5500	7000	7200	6000	<b>6436</b>
3. Examination Fees	650	97	500		267	200	<b>286</b>
4 Other School Fees	1192	1200	3245	2800	XX	1200	<b>1940</b>
<b>Total</b>	<b>10876</b>	<b>7247</b>	<b>9795</b>	<b>10800</b>	<b>9147</b>	<b>8405</b>	<b>9378</b>

Note: Migration certificate fee not included in other school fees.

XX = for computer instruction.

Note: (1) Maximum tuition fee (annual) Rs 7,367; minimum tuition fee Rs 5,500.

(2) Percentage of admission, tuition and examination fees: 79.3 percentage of other fees: 20.7

**Annex 2B. Annual Household Expenditure per Student at Secondary Level in Private (Institutional) Schools, 2061**

In Rs.

Particulars	Bhanubhakta Memorial School, Kathmandu	Kavre Sec. School, Kavre	Bal Kalyan School, Biratnagar	Devkota Memorial School, Biratnagar	Angels High School, Nepalgunj	Jaya Bageshwori Sec. School, Nepalgunj	Average
1. Admission Fees ( New )	5000	400	675		540	300	<b>1153</b>
2. Tuition Fees ( Annual )							
Average of related grades	8500	7200	6750	8000	8400	7600	<b>7742</b>
3. Examination Fees	1050	150	500		300	200	<b>367</b>
4 Other School Fees	1515	1200	3795	3200		2680	<b>2065</b>
<b>Total</b>	<b>16065</b>	<b>8950</b>	<b>11720</b>	<b>11200</b>	<b>9240</b>	<b>10780</b>	<b>11326</b>

Note: Migration certificate fee not included in other school fees.

Note: (1) Maximum tuition fee (annual) Rs 8,500; minimum tuition fee Rs. 6,750. (2) Percentage of admission, tuition and examination fees: 81.8, percentage of other fees: 18.2

**Annex 3. Estimated Income and Expenditure of The Office of Controller of Examination ( 2060/61 )**

Income				Expenditure			
S. No.	Sources	Amount (‘000 Rs.)	Percentage	S.No.	Expenditure Heads	Amount (‘000 Rs.)	Percentage
1	Registration fees from students at grade 9 (Rs. 100 per student)	38,500	33.25	1	Question paper preparation (preparation, translation, moderation, marking scheme preparation, etc)	500	0.54
2	Application fees from students appearing in SLC exam (Rs. 200 per student)	73,000	63.04	2	Question paper printing (Rs.1.49 per question paper)	5,462	5.94
3	Other fees and incomes			3	Answer books (Main answer books and additional answer books)	10,825	11.77
	a) Retotalling fees (Rs. 200 per paper)	3,200	2.76	4	Examination center operation: 900 centers (Rs.25,000 per center)	22,500	24.46
	b) Fees for correction of names, date of birth, etc. and certificates, duplicate fees	700	0.60	5	Marking of answer books including Head Examiners services (Rs. 9 per answer book marked)	22,880	24.87
	c) Sale of old answer books	400	0.35	6	Coding and decoding of answer books	1,820	1.98
				7	Result tabulation and verification	592	0.64
				8	Computer entry (Registration, Application, Mark entry, etc.)	520	0.57
				9	Result publication	1,500	1.63
				10	Fund allocated to REDs for conducting and monitoring examination (Rs. 1 lakh per RED)	500	0.54
				11	Fund allocated to DEO offices (Rs. 10,000 per DEO)	750	0.82
				12	Stationery, printing of forms, maintenance of OCE physical facilities	15,486	16.83
				13	Salaries of OCE staff, meeting allowance of SLC board and mini-boards member	5,655	6.15
				14	Others (Fuel, TA, DA, Telephone etc.)	3,000	3.26
	Total	115,800	100.00		Total	91,990	100.00

Note:1) Most of the fees are collected at the district levels and the amounts are deposited in HMG Treasury

2) The above accounts are not officially audited accounts.

Source: Based on the estimates of the OCE, 2061

## Annex 4. Summary of Unit Cost Estimates

<b>Types of cost</b>	<b>Estimates</b>	<b>Sources</b>
1. Unit costs of students of Secondary level ( Government Expenditure on Public and Community schools )	Rs. 2160 in 2002 Rs. 2094 in 2003	Estimates based on government Budgetary allocations and school Enrolments ( Public schools and Community schools)
2. Costs to parents ( Average Expenditure per student per year ): Fees only 2004	<b>Public schools</b> Rs. 839 for lower secondary level Rs. 1061 for secondary level <b>Private schools</b> Rs. 9378 for lower secondary level Rs. 11,326 for secondary level	Data collected for the study "Study on students Performance in SLC ".
3. Household Expenditure per student (Annual) (Average of 1995/96 and 1996/97 )	Rs. 2407 for Public Schools Rs. 8977 for Private Schools	Cost Sharing Options for Quality Secondary Education, METCON, 1999
4. School Expenditure per Student ( Annual). "Best" and "Worst Schools" ( Average of 1995/96 and 1996/97 )	<b>Unit Expenditure</b> "Best Schools" Rs. 3096 "Worst Schools" Rs. 1707 <b>Share of government in Exp. per student</b> "Best schools " : 41.5 % "Worst schools": 78.1 %	Cost Sharing Option for Quality Secondary Education, METCON, 1999
5. Per student Household Expenditure (Public schools) 2000	<b>Secondary level</b> Rs. 2019 for Boys Rs. 2185 for girls	Nepal : Cost Sharing Research in Education, KEF, 2000
6. Unit cost of SLC Examination, 2060	Unit cost of Appearing students : Rs. 360 Unit cost of successful (Pass ) students : Rs. 944	Estimates for the SLC study "Students Performance in SLC".
7. Text book costs grade 9 and 10 ( Set per student) prescribed text books only	Rs. 400 to Rs. 500 ( depending on optional subject chosen) per year.	JEMC text books price list.
8. Opportunity Cost per Secondary schoolage Child (10-14yrs)	Rs 44 per day Assumption:Wage employment is available.  Annual opportunity cost estimate (school opening days): Rs. 8906	Poverty at the turn of the 21 <sup>st</sup> Century, World Bank, 1999(Using data of Nepal Living Standards Survey, 1996)
9. OCE fees for Examination(per student)	Registration at grade 9: Rs 100 Application fee at grade 10:Rs 200	OCE



Types of Fees	Class	Vishwa	Patan	RatnaRajya	Kanti	Rasuwa	Kalinchowk	SriPokhariya	Mahendra	Tri Sec.	Annapurna,
		Niketan, Ktm.	H.S., Lalitpur	Sec. Sch, Ktm.	Sec. Sch, Ktm.	Sec. Sch, Rasuwa	Dec. Sch, Dolakha	Sec. Sch, Biratnagar	Sec. Sch, Biratnagar	School, Nepalgunj	Manang
Extra Curricular Fee (Annual)			300 to 350								
ID card & school bag		60 each grade									
Migration Certificate		100									

*Source: Data collected for the study 'Students Performance in SLC', 2061.*

Note: Eight of 10 public schools in the sample do not charge 'other fees'.

## Annex 6. Rates of Fees in Private (Institutional) Schools 2004 (2061)

In Rs.

Types of Fees	Class	Banubhakta Memorial Sch, Ktm.	Kavre Sec. Sch. Kavre	Bal Kalyan Sch, Biratnagar	Devkota Memorial Sch, Biratnagar	Angels H.S., Nepalgunj	JayBageshwori Sec. Sch, Nepalgunj
Admission Fee (New Entrants)	6	1500	400	550	1000	450	200
	7	1500	400	550	1000	450	200
	8	2000	400	550	1000	540	200
	9	5000	400	675		540	300
	10	5000	400	675		540	300
Tuition Fee (monthly)	6	680	520	550	700	660	600
	7	680	560	550	700	660	600
	8	850	585	550	700	840	600
	9	850	720	675	800	840	760
	10	850	720	675	800	840	760
Examination Fee (Annual)	6	600	90	500		250	200
	7	600	90	500		250	200
	8	750	110	500		200	200
	9	900	150	500		300	200
	10	1200	150	500		300	200
Other Fees							
Library Fee (Annual)		20 at grade 6, 7 30 at grade 8,9,10	100 to 150 depending on grade	20 each grade 70 to 125 depending on grade			100 to 200 depending on grade 125 to 150 depending on grade
Computer Education Fee (Monthly)					120 at grade 5-8		
Games (Annual)		600 to 1000 depending on grade		200 each grade			300 to 400
First Aid (Annual)		250 each grade 400 to 600		25 each grade			10 each grade
Educational Materials (Annual)		depending on grade					
Migration Certificate		50					
Identity Card		20 each grade		20 each grade			
School Diary		200 each grade					
Others					2800 at grade 6-8 3200 at grade 9-10		

Source: Data collected for the study 'Students Performance in SLC', 2061. (Sec.= Secondary, Sch.= School, H.S.= Higher Secondary School, Ktm.= Kathmandu)

## Chapter X: Determinants of Student Performance in the SLC Exams

### Annex 1. Descriptive statistics

Variable	All Students		Students Who Failed		Students Who Passed	
	Mean	Std. Dev.	Mean	Std. Dev.	Mean	Std. Dev.
SLC total score (out of 100)	46.556	11.656	38.966	7.214	54.837	9.791
SLC pass rate (%)	0.478	0.500				
School Input Variables						
General school resources						
Spending per student ( Rs. 000)	3.929	4.643	3.496	4.079	4.401	5.148
Student-teacher ratio in secondary school	37.514	26.518	40.952	25.433	33.763	27.162
Educational materials and school facilities						
Delay in textbook delivery (days)	20.513	47.207	25.836	53.387	14.704	38.547
Pukki buildings‡	0.901	0.299	0.890	0.313	0.912	0.283
Grade 10 class size	77.907	52.900	80.324	51.994	75.269	53.752
Adequate library‡	0.346	0.476	0.285	0.451	0.413	0.492
Adequate science lab‡	0.127	0.333	0.097	0.296	0.160	0.366
Teacher Input Variables						
Teaching experience	14.452	5.348	14.836	5.236	14.033	5.436
Teaching experience sward	237.449	170.742	247.517	171.041	226.463	169.748
Teachers with B.Ed. degrees (%)	0.581	0.270	0.600	0.255	0.560	0.284
Teachers with 10-month SEDU training (%)	0.107	0.138	0.116	0.145	0.096	0.130
Average short-term training days	3.856	4.887	4.085	4.892	3.607	4.870
Teacher turnover (%)	0.111	0.196	0.107	0.181	0.116	0.210
School Process Variables						
Head teacher effectiveness ( 1 to 4 )	2.829	0.589	2.785	0.589	2.876	0.585
Hours of instruction per week	31.197	7.760	30.118	7.099	32.374	8.264
School academic policies						
Maximum failures allowed in 9 & 10	1.580	1.000	1.783	0.882	1.359	1.072
Number of times tested in 9 & 10	9.999	6.826	8.399	5.046	11.745	7.988
Regular homework required	0.460	0.498	0.380	0.486	0.546	0.498
Teaching load/approach						
Interactive teaching approach‡	0.330	0.470	0.268	0.443	0.399	0.490
Teaching load ( hours per day )	3.451	0.456	3.441	0.461	3.463	0.451
Course completion rate (%)	93.362	7.366	92.040	7.818	94.804	6.541
Instruction time X class size	2403.508	1705.751	2425.200	1686.941	2379.839	1725.855
Course completion X family expenditure	8331.532	6467.929	7664.229	6156.373	9059.678	6716.833
Highest degree expected						
Intermediate/+2 ‡	0.165	0.371	0.212	0.409	0.114	0.318
Bachelors‡	0.205	0.403	0.230	0.421	0.177	0.382
Masters +‡	0.412	0.492	0.335	0.472	0.497	0.500
No idea‡	0.126	0.332	0.100	0.300	0.155	0.362
Student Input Variables						
Demographic characteristics						
Age	16.721	1.244	16.986	1.333	16.433	1.065
Sex ( 1 = male, 0 = female )	0.543	0.498	0.495	0.500	0.594	0.491
Ethnicity						
Chhetri‡	0.207	0.405	0.215	0.411	0.199	0.399
Newar‡	0.114	0.317	0.076	0.265	0.155	0.362
Janjati‡	0.147	0.354	0.168	0.374	0.125	0.331
Dalit‡	0.023	0.151	0.027	0.163	0.019	0.136
Other ‡	0.151	0.358	0.170	0.376	0.130	0.336
Language ( 1=Nepali, 0=Other)	0.742	0.437	0.729	0.445	0.757	0.429
Study habits, educational background and peer influence						

Variable	All Students		Students Who Failed		Students Who Passed	
	Mean	Std. Dev.	Mean	Std. Dev.	Mean	Std. Dev.
School days missed	6.697	8.167	7.650	8.811	5.656	7.260
Regular study hours per day	5.215	2.445	5.030	2.351	5.417	2.528
Read magazines regularly‡	0.246	0.431	0.186	0.390	0.311	0.463
No. of friends passing SLC	3.127	1.506	2.580	1.427	3.724	1.356
Months of coaching / tuition	8.966	9.774	9.030	10.028	8.897	9.490
No. of grade repetitions	1.788	1.009	2.098	1.052	1.450	0.837
Grade 9 score ( 0 to 100)						
Student's personal situation during examination						
Commuted daily‡	0.553	0.497	0.486	0.500	0.626	0.484
Prepared own food‡	0.224	0.417	0.289	0.453	0.153	0.360
Sick‡	0.151	0.358	0.167	0.373	0.133	0.340
Nepali medium ‡	0.726	0.446	0.826	0.379	0.618	0.486
Family Input Variables						
Distance of school from home (mins)	29.823	29.429	32.755	31.071	26.623	27.170
Demographic characteristics						
Living with both parents‡	0.661	0.473	0.643	0.479	0.680	0.466
Family size	6.470	2.474	6.647	2.499	6.276	2.431
Income and wealth						
Family's annual expenditure (Rs.000)	88.966	67.850	83.231	65.801	95.223	69.486
Family's wealth ( Rs. 00000)	13.022	30.822	9.720	21.273	16.624	38.315
Education background of family						
No. of SLC graduates in family	1.852	1.374	1.530	1.304	2.203	1.362
Support from family and academic environment at home						
No. of books at home	16.333	41.807	11.098	29.001	22.045	51.721
Hours spent on household chores	1.829	1.641	2.110	1.654	1.524	1.570
National Context Variables						
SLC Year 2003‡	0.247	0.431	0.246	0.431	0.249	0.432
SLC Year 2004‡	0.568	0.495	0.570	0.495	0.566	0.496
Community Context Variables						
HDI	0.481	0.057	0.471	0.053	0.493	0.060
No. private schools	3.490	4.079	2.792	3.140	4.252	4.788
District headquarter‡	0.227	0.419	0.158	0.365	0.302	0.459
Permanent bazaar+motorable road ‡	0.633	0.482	0.577	0.494	0.694	0.461
School Context Variables						
Learning environment						
Quiet neighborhood‡	0.855	0.352	0.844	0.363	0.867	0.339
School size	731.272	342.117	734.944	331.538	727.265	353.280
School governance structure						
Public, not fully funded school‡	0.217	0.412	0.248	0.432	0.182	0.386
Private school ‡	0.159	0.366	0.041	0.199	0.288	0.453
No. of supervisions visits	9.952	8.867	10.222	8.690	9.658	9.048
No. of PTA meetings	1.997	2.467	1.927	2.469	2.074	2.463
Socio-economic characteristics of student body						
Dalit/Janjati (%)	39.981	26.209	41.124	24.984	38.735	27.432
Girls (%)	47.769	11.995	48.102	12.539	47.405	11.362
Non-Nepali speakers (%)	25.213	33.809	26.223	34.305	24.112	33.226
Poor (%)	12.456	19.088	14.926	20.115	9.760	17.508
SLC examination center environment						
Exam room adequacy ( 1 to 6 )	1.697	1.137	1.668	1.142	1.729	1.131
No. of observations	14243		7432		6811	
‡(1 = Yes, 0 = No)						

## Annex 2. OLS Regression Results for Aggregate SLC Performance

## Dependent Variable: Average SLC Score of Student

Variable	Model (1)		Model (2)		Model (3)		Model (4)		Model (5)		Model (6)		
	Coeff	p-value	Coeff.	p-value	Coeff.	p-value	Coeff.	p-value	Coeff.	p-value	Std. coeff.	Coeff.	p-value
Constant	51.529***	(0.000)	9.355	(0.175)	35.268***	(0.000)	32.196***	(0.000)	28.680***	(0.003)	[2.461]	13.699	(0.441)
<b>School Input Variables</b>													
<i>General school resources</i>													
Log of Spending per student ( Rs. 000)	2.676***	(0.000)	1.315***	(0.006)	0.670**	(0.049)	0.563*	(0.076)	0.846***	(0.004)	[0.049]	0.887**	(0.033)
Student-teacher ratio in secondary school	-0.024**	(0.029)	-0.011*	(0.065)	-0.007	(0.124)	-0.006	(0.135)	0.006	(0.494)	[0.015]	0.007	(0.695)
<i>Educational materials and school facilities</i>													
Delay in textbook delivery (days)	-0.030***	(0.000)	-0.018***	(0.000)	-0.006**	(0.027)	-0.004**	(0.035)	-0.004**	(0.014)	[-0.017]	-0.005**	(0.025)
Pukki buildings‡	2.407*	(0.073)	1.678	(0.129)	0.640	(0.513)	0.613	(0.504)	0.029	(0.960)	[0.001]	0.634	(0.506)
Grade 10 class size	0.008	(0.455)	0.068	(0.113)	0.039	(0.211)	0.039	(0.153)	0.003	(0.861)	[0.013]	-0.041	(0.260)
Adequate library‡	3.867***	(0.001)	1.179	(0.130)	1.028*	(0.096)	1.068*	(0.072)	0.836	(0.166)	[0.034]	0.030	(0.972)
Adequate science lab‡	2.098*	(0.092)	0.903	(0.431)	0.672	(0.397)	0.479	(0.519)	0.241	(0.661)	[0.007]	0.554	(0.627)
<b>Teacher Input Variables</b>													
Teaching experience	-0.763	(0.154)	-0.213	(0.455)	-0.132	(0.488)	-0.164	(0.366)	0.047	(0.747)	[0.022]	-0.122	(0.686)
Teaching experience squared	0.015	(0.302)	0.003	(0.699)	0.001	(0.865)	0.002	(0.759)	-0.003	(0.492)	[-0.043]	0.006	(0.507)
Teachers with B.Ed. degrees (%)	-2.544	(0.235)	0.257	(0.825)	0.347	(0.698)	0.411	(0.649)	1.113	(0.185)	[0.026]	0.620	(0.700)
Teachers with 10-month SEDU training (%)	-11.531***	(0.000)	-3.516*	(0.074)	-1.676	(0.262)	-1.365	(0.360)	-1.836	(0.163)	[-0.022]	-0.681	(0.720)
Average short-term training days	-0.122	(0.369)	-0.120*	(0.056)	-0.060	(0.169)	-0.062	(0.163)	-0.084**	(0.047)	[-0.035]	-0.002	(0.976)
Teacher turnover (%)	1.472	(0.414)	1.528	(0.168)	1.372	(0.111)	1.276	(0.167)	-0.764	(0.482)	[-0.013]	-1.986	(0.380)
<b>School Process Variables</b>													
Head teacher effectiveness ( 1 to 4 )			0.659	(0.251)	0.338	(0.442)	0.308	(0.468)	-0.021	(0.945)	[-0.001]	0.630	(0.232)
Hours of instruction per week			0.210**	(0.023)	0.126**	(0.039)	0.120**	(0.017)	0.030	(0.373)	[0.020]	0.063	(0.361)
<i>School academic policies</i>													
Maximum failures allowed in 9 & 10			-1.656***	(0.001)	-0.984***	(0.007)	-0.782**	(0.019)	-0.069	(0.835)	[-0.006]	0.304	(0.358)
Number of times tested in 9 & 10			0.237***	(0.001)	0.127***	(0.010)	0.103**	(0.036)	-0.001	(0.979)	[-0.001]	-0.113	(0.140)
Regular homework required			1.800***	(0.007)	1.250***	(0.004)	1.193***	(0.003)	1.373***	(0.001)	[0.059]	-0.133	(0.844)
<i>Teaching load/approach</i>													
Interactive teaching approach‡			2.438***	(0.001)	1.424**	(0.011)	1.394**	(0.013)	0.465	(0.354)	[0.019]	0.245	(0.740)
Teaching load ( hours per day )			1.018	(0.198)	1.061*	(0.076)	1.124*	(0.070)	1.269*	(0.079)	[0.050]	0.320	(0.693)
Course completion rate (%)			0.204***	(0.000)	0.121***	(0.003)	0.118***	(0.005)	0.057	(0.137)	[0.036]	0.042	(0.266)
Instruction time X class size			-0.002	(0.114)	-0.001	(0.188)	-0.001	(0.133)	-0.001	(0.215)	[-0.083]	0.001	(0.376)
Course completion X family expenditure			-0.000***	(0.000)	-0.000***	(0.004)	-0.000	(0.583)	-0.000	(0.353)	[-0.013]	0.000	(0.235)
<i>Highest degree expected</i>													
Intermediate/+2 ‡			0.911	(0.135)	0.201	(0.652)	0.255	(0.567)	0.226	(0.408)	[0.007]	0.228	(0.619)
Bachelors‡			2.719***	(0.003)	1.208**	(0.037)	1.122**	(0.047)	1.123**	(0.017)	[0.039]	0.337	(0.448)

Variable	Model (1)		Model (2)		Model (3)		Model (4)		Model (5)		Model (6)	
	Coeff	p-value	Coeff.	p-value	Coeff.	p-value	Coeff.	p-value	Coeff.	p-value	Std. coeff.	Coeff. p-value
Masters †‡			6.296***	(0.000)	2.974***	(0.000)	2.613***	(0.000)	2.608***	(0.000)	[0.110]	1.366*** (0.001)
No idea †‡			5.609***	(0.000)	2.656***	(0.000)	2.533***	(0.000)	1.865***	(0.000)	[0.053]	0.423 (0.415)
<b>Student Input Variables</b>												
<i>Demographic characteristics</i>												
Age					-0.839***	(0.000)	-0.701***	(0.000)	-0.861***	(0.000)	[-0.092]	-0.659*** (0.000)
Sex ( 1 = male, 0 = female )					1.841***	(0.000)	1.957***	(0.000)	2.021***	(0.000)	[0.086]	1.362*** (0.000)
Ethnicity												
Chhetri †‡					-0.374	(0.269)	-0.018	(0.955)	-0.351	(0.130)	[-0.012]	-0.153 (0.641)
Newar †‡					1.578*	(0.052)	1.760**	(0.037)	0.287	(0.494)	[0.008]	0.501 (0.342)
Janjati †‡					-1.298***	(0.008)	-0.724*	(0.088)	-1.008***	(0.004)	[-0.031]	-0.787** (0.034)
Dalit †‡					-0.782	(0.247)	-0.008	(0.990)	0.039	(0.929)	[0.001]	-0.728 (0.284)
Other †‡					-1.627**	(0.018)	-1.250*	(0.068)	-0.716*	(0.085)	[-0.022]	-0.294 (0.616)
Language ( 1=Nepali, 0=Other)					0.871	(0.147)	0.715	(0.210)	0.431	(0.119)	[0.016]	0.479 (0.310)
<i>Study habits, educational background, and peer influence</i>												
School days missed					-0.066***	(0.000)	-0.059***	(0.000)	-0.046***	(0.000)	[-0.032]	-0.029* (0.071)
Log of Regular study hours per day					0.475*	(0.056)	0.263	(0.281)	0.518**	(0.034)	[0.022]	0.191 (0.440)
Read magazines regularly †‡					1.371***	(0.000)	1.118***	(0.000)	0.919***	(0.000)	[0.034]	0.414 (0.128)
No. of friends passing SLC					1.736***	(0.000)	1.575***	(0.000)	1.304***	(0.000)	[0.168]	0.821*** (0.000)
Months of coaching / tuition					-0.028*	(0.086)	-0.041**	(0.011)	-0.032**	(0.027)	[-0.027]	-0.002 (0.915)
No. of grade repetitions					-1.620***	(0.000)	-1.529***	(0.000)	-1.470***	(0.000)	[-0.127]	-0.824*** (0.000)
Grade 9 score ( 0 to 100)												0.439*** (0.000)
<i>Student's personal situation during examination</i>												
Commuted daily †‡					0.928**	(0.046)	0.814*	(0.060)	0.106	(0.662)	[0.005]	0.681 (0.116)
Prepared own food †‡					-0.920***	(0.000)	-0.502**	(0.013)	-0.403**	(0.010)	[-0.014]	-0.617** (0.027)
Sick †‡					-0.436*	(0.053)	-0.330*	(0.097)	-0.318	(0.139)	[-0.010]	-0.131 (0.685)
Nepali medium †‡					-2.291***	(0.000)	-2.048***	(0.000)	-0.782**	(0.019)	[-0.030]	-0.095 (0.768)
<b>Family Input Variables</b>												
Distance of school from home (mins)							-0.001	(0.903)	-0.002	(0.468)	[-0.006]	-0.003 (0.529)
<i>Demographic characteristics</i>												
Living with both parents †‡							0.075	(0.668)	0.124	(0.394)	[0.005]	0.104 (0.592)
Family size							-0.245***	(0.000)	-0.202***	(0.000)	[-0.043]	-0.264*** (0.000)
<i>Income and wealth</i>												
Log of Family's annual expenditure (Rs.000)							0.415**	(0.039)	0.413*	(0.063)	[0.025]	-0.409 (0.102)
Log of Family's wealth ( Rs. 00,000)							0.325**	(0.026)	0.113	(0.193)	[0.012]	0.298*** (0.008)
<i>Education background of family</i>												
No. of SLC graduates in family							0.957***	(0.000)	0.870***	(0.000)	[0.103]	0.658*** (0.000)
<i>Support from family and academic environment at home</i>												
No. of books at home							0.007**	(0.031)	0.006*	(0.076)	[0.020]	0.001 (0.688)
Hours spent on household chores							-0.172**	(0.020)	-0.142**	(0.036)	[-0.020]	-0.187*** (0.003)

Variable	Model (1)		Model (2)		Model (3)		Model (4)		Model (5)		Model (6)	
	Coeff	p-value	Coeff.	p-value	Coeff.	p-value	Coeff.	p-value	Coeff.	p-value	Std. coeff.	Coeff. p-value
<b>National Context</b>												
SLC Year 2003‡									0.373	(0.284)	[0.014]	-0.471 (0.329)
SLC Year 2004‡									1.438*	(0.061)	[0.061]	0.624 (0.199)
<b>Community Context</b>												
HDI									20.012**	(0.013)	[0.098]	29.822 (0.228)
No. private schools									-0.036	(0.340)	[-0.013]	-0.214** (0.023)
District headquarter‡									0.824	(0.154)	[0.030]	-0.238 (0.791)
Permanent bazaar+motorable road ‡									-0.375	(0.385)	[-0.016]	-0.567 (0.458)
<b>School Context</b>												
<i>Learning environment</i>												
Quiet neighborhood‡									1.413*	(0.062)	[0.043]	0.060 (0.944)
School size									0.007***	(0.000)	[0.192]	0.004** (0.032)
<i>School governance structure</i>												
Public, not fully funded school‡									0.244	(0.663)	[0.009]	0.170 (0.851)
Private school‡									8.420***	(0.000)	[0.264]	8.076*** (0.001)
No. of supervision visits									-0.013	(0.607)	[-0.010]	-0.021 (0.614)
No. of PTA meetings									0.038	(0.662)	[0.008]	-0.080 (0.402)
<i>Socio-economic characteristics of student body</i>												
Dalit/Janjati (%)									0.004	(0.603)	[0.008]	-0.015 (0.317)
Girls (%)									-0.020**	(0.033)	[-0.021]	-0.021 (0.438)
Non-Nepali speakers (%)									-0.006	(0.263)	[-0.019]	-0.029** (0.030)
Poor (%)									-0.009	(0.502)	[-0.015]	-0.004 (0.861)
<i>SLC examination center environment</i>												
Exam room adequacy ( 1 to 6 )									0.274***	(0.001)	[0.027]	0.266*** (0.008)
Observations	16579		15858		15672		14960		14243			3902
Adjusted R-squared	0.168		0.327		0.463		0.475		0.531			0.686

\* significant at 10%; \*\* significant at 5%; \*\*\* significant at 1%; ‡(1 = Yes, 0 = No )

### Annex 3. Ranking of Statistically Significant Coefficients in Model (5)

Variable	Model (5)		
	Coeff.	Std. Coeff	Var. Type
School type: Private school‡	8.420***	0.2640	C
School size	0.007***	0.1920	C
No. of friends passing SLC	1.304***	0.1680	ST
No. of grade repetitions	-1.470***	-0.1270	ST
Highest degree expected: Masters +‡	2.608***	0.1100	SCH
No. of SLC graduates in family	0.870***	0.1030	F
HDI	20.012**	0.0980	C
Age	-0.861***	-0.0920	ST
Sex ( 1 = male, 0 = female )	2.021***	0.0860	P, ST
SLC Year 2004‡	1.438*	0.0610	C
Regular homework required	1.373***	0.0590	P, SCH
Highest degree expected: No idea‡	1.865***	0.0530	SCH
Teaching load ( hours per day )	1.269*	0.0500	P, SCH
Log of spending per student ( Rs. 000)	0.846***	0.0490	P, SCH
Quiet neighborhood‡	1.413*	0.0430	C
Family size	-0.202***	-0.0430	F
Highest degree expected: Bachelors‡	1.123**	0.0390	SCH
Average short-term training days	-0.084**	-0.0350	P, SCH
Read magazines regularly‡	0.919***	0.0340	ST
School days missed	-0.046***	-0.0320	P, ST
Ethnicity: Janjati‡	-1.008***	-0.0310	P, ST
Nepali medium ‡	-0.782**	-0.0300	P, ST
Exam room adequacy ( 1 to 6 )	0.274***	0.0270	PC
Months of coaching / tuition	-0.032**	-0.0270	ST
Log of family's annual expenditure (Rs.000)	0.413*	0.0250	P, F
Log of regular study hours per day	0.518**	0.0220	C
Ethnicity: Other ‡	-0.716*	-0.0220	ST
Girls (%)	-0.020**	-0.0210	SCH
No. of books at home	0.006*	0.0200	F
Hours spent on household chores	-0.142**	-0.0200	F
Delay in textbook delivery (days)	-0.004**	-0.0170	P, SCH
Prepared own food‡	-0.403**	-0.0140	P, ST

\* significant at 10%; \*\* significant at 5%; \*\*\* significant at 1% ‡(1 = Yes, 0 = No )

P=Policy variable; C=Context variable; F=Family variable; SCH=School variable; ST=Student variable

**Annex 4. Logit Regression Results for Aggregate SLC Performance Dependent variable: pass/fail status of students (1=pass, 0=fail)**

Variable	Model 1			Marginal effect	Model 2		
	Coef.	P-value	St.Coeff		Coef.	P-value	St.Coeff
Constant	-2.814*	(0.095)			-7.044	(0.194)	
School Input Variables							
General school resources							
Log of spending per student ( Rs. 000)	0.202**	(0.021)	[0.077]	0.050	0.236*	(0.059)	[0.090]
Student-teacher ratio in secondary school	0.001	(0.613)	[0.023]	0.000	0.004	(0.480)	[0.070]
Educational materials and school facilities							
Delay in textbook delivery (days)	-0.001	(0.331)	[-0.018]	0.000	-0.001	(0.193)	[-0.031]
Pukki buildings‡	-0.026	(0.865)	[-0.005]	-0.007	0.564*	(0.064)	[0.097]
Grade 10 class size	-0.003	(0.627)	[-0.092]	-0.001	-0.011	(0.433)	[-0.329]
Adequate library‡	0.128	(0.310)	[0.035]	0.032	-0.614**	(0.035)	[-0.166]
Adequate science lab‡	0.187	(0.204)	[0.039]	0.047	0.295	(0.311)	[0.062]
Teacher Input Variables							
Teaching experience	0.007	(0.880)	[0.020]	0.002	-0.087	(0.388)	[-0.256]
Teaching experience sward	-0.000	(0.941)	[-0.009]	0.000	0.002	(0.461)	[0.223]
Teachers with B.Ed. degrees (%)	-0.123	(0.620)	[-0.018]	-0.031	-0.469	(0.330)	[-0.070]
Teachers with 10-month SEDU training (%)	-0.089	(0.837)	[-0.007]	-0.022	0.781	(0.187)	[0.058]
Average short-term training days	-0.011	(0.430)	[-0.030]	-0.003	0.015	(0.501)	[0.041]
Teacher turnover (%)	-0.079	(0.772)	[-0.009]	-0.020	-0.491	(0.484)	[-0.053]
School Process Variables							
Head teacher effectiveness ( 1 to 4 )	-0.038	(0.665)	[-0.012]	-0.010	-0.035	(0.818)	[-0.011]
Hours of instruction per week	0.002	(0.884)	[0.008]	0.000	-0.006	(0.809)	[-0.026]
School academic policies							
Maximum failures allowed in 9 & 10	-0.024	(0.711)	[-0.014]	-0.006	0.081	(0.433)	[0.046]
Number of times tested in 9 & 10	0.002	(0.814)	[0.009]	0.001	-0.011	(0.654)	[-0.043]
Regular homework required	0.328***	(0.004)	[0.090]	0.082	-0.016	(0.929)	[-0.004]
Teaching load/approach							
Interactive teaching approach‡	-0.058	(0.616)	[-0.015]	-0.015	-0.138	(0.521)	[-0.037]
Teaching load ( hours per day )	-0.031	(0.821)	[-0.008]	-0.008	-0.742***	(0.001)	[-0.198]
Course completion rate (%)	0.006	(0.465)	[0.022]	0.001	0.004	(0.733)	[0.015]
Instruction time X class size	-0.000	(0.691)	[-0.073]	0.000	0.000	(0.518)	[0.282]
Course completion X family expenditure	-0.000	(0.817)	[-0.005]	0.000	-0.000	(0.550)	[-0.023]
Highest degree expected							
Intermediate/+2 ‡	-0.016	(0.878)	[-0.003]	-0.004	0.126	(0.475)	[0.025]
Bachelors‡	0.186*	(0.057)	[0.041]	0.047	0.095	(0.600)	[0.021]
Masters +‡	0.402***	(0.000)	[0.109]	0.100	0.393**	(0.017)	[0.107]
No idea‡	0.303***	(0.005)	[0.058]	0.076	0.156	(0.432)	[0.030]
Student Input Variables							
Demographic characteristics							
Age	-0.118***	(0.000)	[-0.080]	-0.029	-0.011	(0.804)	[-0.007]
Sex ( 1 = male, 0 = female )	0.371***	(0.000)	[0.102]	0.092	0.431***	(0.000)	[0.118]
Ethnicity							
Chhetri‡	-0.072	(0.300)	[-0.016]	-0.018	-0.094	(0.426)	[-0.021]
Newar‡	-0.015	(0.885)	[-0.003]	-0.004	0.158	(0.442)	[0.030]
Dalit‡	-0.110	(0.154)	[-0.021]	-0.027	0.002	(0.988)	
Janjati‡	0.088	(0.554)	[0.007]	0.022	-0.151	(0.626)	[-0.013]
Other ‡	-0.100	(0.384)	[-0.020]	-0.025	-0.022	(0.916)	[-0.004]
Language ( 1=Nepali, 0=Other)	0.082	(0.321)	[0.020]	0.021	0.281*	(0.079)	[0.068]
Study habits, educational background, and peer influence							
School days missed	-0.007**	(0.030)	[-0.030]	-0.002	-0.004	(0.529)	[-0.020]

Variable	Model 1			Marginal effect	Model 2		
	Coef.	P-value	St.Coeff		Coef.	P-value	St.Coeff
Log of regular study hours per day	0.144**	(0.011)	[0.040]	0.036	-0.012	(0.911)	[-0.003]
Read magazines regularly‡	0.109**	(0.027)	[0.027]	0.027	0.189*	(0.071)	[0.046]
No. of friends passing SLC	0.268***	(0.000)	[0.224]	0.067	0.252***	(0.000)	[0.210]
Months of coaching / tuition	0.001	(0.639)	[0.007]	0.000	0.011	(0.158)	[0.058]
No. of grade repetitions	-0.571***	(0.000)	[-0.314]	-0.143	-0.592***	(0.000)	[-0.326]
Grade 9 score ( 0 to 100)					0.090***	(0.000)	[0.610]
Student's personal situation during examination							
Commuted daily‡	-0.029	(0.726)	[-0.008]	-0.007	-0.055	(0.701)	[-0.015]
Prepared own food‡	-0.113*	(0.084)	[-0.025]	-0.028	-0.289**	(0.015)	[-0.065]
Sick‡	-0.117**	(0.034)	[-0.023]	-0.029	-0.064	(0.597)	[-0.013]
Nepali medium ‡	-0.149**	(0.048)	[-0.038]	-0.037	-0.162	(0.231)	[-0.042]
Family Input Variables							
Distance of school from home (mins)	-0.001	(0.189)	[-0.018]	0.000	-0.002	(0.224)	[-0.032]
Demographic characteristics							
Living with both parents‡	0.054	(0.239)	[0.014]	0.013	0.039	(0.665)	[0.010]
Family size	-0.046***	(0.000)	[-0.062]	-0.011	-0.076***	(0.000)	[-0.103]
Income and wealth							
Log of family's annual expenditure (Rs.000)	0.033	(0.578)	[0.013]	0.008	0.091	(0.371)	[0.036]
Log of family's wealth ( Rs. 00000)	-0.006	(0.813)	[-0.004]	-0.001	0.063	(0.122)	[0.044]
Education background of family							
No. of SLC graduates in family	0.228***	(0.000)	[0.175]	0.057	0.191***	(0.000)	[0.147]
Support from family and academic environment at home							
No. of books at home	0.001*	(0.073)	[0.031]	0.000	-0.001	(0.340)	[-0.026]
Hours spent on household chores	-0.040***	(0.005)	[-0.036]	-0.010	-0.055**	(0.037)	[-0.050]
National Context							
SLC Year 2003‡	0.084	(0.334)	[0.020]	0.021	0.057	(0.774)	[0.014]
SLC Year 2004‡	0.309***	(0.000)	[0.084]	0.077	0.309*	(0.069)	[0.084]
Community Context							
HDI	5.806***	(0.004)	[0.197]	1.450	7.718	(0.303)	[0.262]
No. of private schools	-0.005	(0.716)	[-0.011]	-0.001	-0.002	(0.953)	[-0.006]
District headquarters‡	0.418***	(0.008)	[0.102]	0.104	0.435	(0.129)	[0.106]
Permanent bazaar+motorable road ‡	-0.268**	(0.037)	[-0.070]	-0.067	-0.290	(0.167)	[-0.076]
School Context							
Learning environment							
Quiet neighborhood‡	0.199	(0.183)	[0.037]	0.049	0.016	(0.946)	[0.003]
School size	0.001***	(0.000)	[0.341]	0.000	0.001*	(0.053)	[0.225]
School governance structure							
Public, not fully funded school‡	0.209	(0.124)	[0.047]	0.052	0.671***	(0.007)	[0.151]
Private school	1.055***	(0.000)	[0.237]	0.253	1.705**	(0.044)	[0.383]
No. of supervision visits	-0.007	(0.277)	[-0.033]	-0.002	0.001	(0.964)	[0.003]
No. of PTA meetings	0.016	(0.411)	[0.022]	0.004	-0.003	(0.926)	[-0.004]
Student socio-economic characteristics							
Dalit/Janjati (%)	-0.001	(0.798)	[-0.009]	0.000	0.007	(0.185)	[0.106]
Girls (%)	-0.005	(0.322)	[-0.035]	-0.001	-0.015	(0.141)	[-0.105]
Non-Nepali speakers (%)	-0.001	(0.748)	[-0.012]	0.000	0.005	(0.245)	[0.095]
Poor (%)	-0.002	(0.576)	[-0.020]	0.000	0.004	(0.570)	[0.039]
SLC examination center environment							
Exam room adequacy ( 1 to 6 )	0.034	(0.107)	[0.022]	0.008	0.086**	(0.031)	[0.055]

\* significant at 10%; \*\* significant at 5%; \*\*\* significant at 1%, ‡(1 = Yes, 0 = No ), Marginal effect =  $dy/dx$

### Annex 5. OLS Regression Results for Each of the Six Compulsory Subjects

Dependent variable: Total score in the subject

Variable	Model (1): Nepali			Model (2): English			Model (3): Math		
	Coef.	P-value	Std. coef.	Coef.	P-value	Std. coef.	Coef.	P-value	Std. Coef.
Constant	38.365***	(0.000)	[3.355]	33.830***	(0.000)	[2.050]	23.467**	(0.029)	[1.098]
School Input Variables									
General school resources									
Log of spending per student ( Rs. 000)	0.140	(0.744)	[0.009]	1.125**	(0.021)	[0.047]	1.121	(0.157)	[0.035]
Student-teacher ratio in secondary school	-0.013	(0.407)	[-0.031]	-0.008	(0.577)	[-0.013]	-0.010	(0.563)	[-0.013]
Educational materials and school facilities									
Delay in textbook delivery (days)	-0.005*	(0.053)	[-0.023]	-0.003	(0.168)	[-0.010]	-0.008**	(0.021)	[-0.017]
Pukki buildings‡	1.175	(0.171)	[0.030]	-0.243	(0.756)	[-0.004]	0.461	(0.697)	[0.007]
Grade 10 class size	-0.025	(0.477)	[-0.114]	-0.006	(0.850)	[-0.020]	-0.004	(0.922)	[-0.010]
Adequate library‡	1.638**	(0.019)	[0.069]	2.070***	(0.002)	[0.061]	1.117	(0.231)	[0.025]
Adequate science lab‡									
Teacher Input Variables									
Teaching experience	-0.032	(0.831)	[-0.022]	-0.250	(0.130)	[-0.125]	-0.032	(0.905)	[-0.010]
Teaching experience squared	-0.001	(0.844)	[-0.019]	0.006	(0.152)	[0.113]	-0.001	(0.844)	[-0.015]
Teachers with B.Ed. degrees (%)	0.168	(0.787)	[0.006]	0.781	(0.283)	[0.020]	0.558	(0.515)	[0.013]
Teachers with 10-month SEDU training (%)	1.578*	(0.073)	[0.039]	-0.991	(0.291)	[-0.020]	-2.361**	(0.038)	[-0.042]
Average short-term training days	0.027	(0.356)	[0.017]	-0.054	(0.322)	[-0.016]	-0.097*	(0.090)	[-0.026]
Teacher turnover (%)	1.104	(0.442)	[0.021]	0.031	(0.982)	[0.000]	-6.440***	(0.008)	[-0.048]
School Process Variables									
Head teacher effectiveness ( 1 to 4 )	0.157	(0.781)	[0.008]	0.181	(0.729)	[0.006]	0.199	(0.806)	[0.005]
Hours of instruction per week	0.212	(0.720)	[0.018]	0.208	(0.700)	[0.014]	0.901	(0.122)	[0.047]
School academic policies									
Maximum failures allowed in 9 & 10	-0.011	(0.973)	[-0.001]	-0.504	(0.229)	[-0.031]	-0.619	(0.222)	[-0.029]
Number of times tested in 9 & 10	0.048	(0.406)	[0.030]	0.123**	(0.032)	[0.052]	0.018	(0.821)	[0.006]
Regular homework required	0.468	(0.430)	[0.019]	2.390***	(0.007)	[0.050]	0.954	(0.475)	[0.015]
Teaching load/approach									
Interactive teaching approach‡	0.337	(0.566)	[0.014]	0.697	(0.259)	[0.021]	2.139**	(0.016)	[0.050]
Teaching load ( hours per day )	-0.265	(0.643)	[-0.014]	0.670	(0.222)	[0.025]	0.210	(0.810)	[0.005]
Course completion rate (%)	0.060	(0.220)	[0.035]	0.095**	(0.022)	[0.047]	0.046	(0.247)	[0.021]
Instruction time X class size	0.002	(0.788)	[0.044]	0.001	(0.890)	[0.014]	-0.003	(0.808)	[-0.024]
Course completion X family expenditure	-0.000***	(0.005)	[-0.049]	-0.000*	(0.077)	[-0.024]	-0.000	(0.221)	[-0.017]
Highest degree expected									

Variable	Model (1): Nepali			Model (2): English			Model (3): Math		
	Coef.	P-value	Std. coef.	Coef.	P-value	Std. coef.	Coef.	P-value	Std. Coef.
Intermediate/+2 ‡	1.471***	(0.002)	[0.048]	0.781	(0.118)	[0.018]	0.764	(0.282)	[0.013]
Bachelors‡	1.455***	(0.002)	[0.052]	1.408***	(0.006)	[0.034]	2.236***	(0.001)	[0.042]
Masters +‡	2.870***	(0.000)	[0.123]	3.271***	(0.000)	[0.098]	5.080***	(0.000)	[0.117]
No idea‡	3.043***	(0.000)	[0.088]	2.556***	(0.000)	[0.051]	3.368***	(0.000)	[0.053]
Student Input Variables									
Demographic characteristics									
Age	-0.936***	(0.000)	[-0.101]	-0.960***	(0.000)	[-0.072]	-1.263***	(0.000)	[-0.073]
Sex (1 = male, 0 = female)	0.587**	(0.029)	[0.026]	1.710***	(0.000)	[0.052]	5.475***	(0.000)	[0.127]
Ethnicity									
Chhetri‡	-0.366	(0.251)	[-0.013]	0.071	(0.839)	[0.002]	-1.149**	(0.023)	[-0.022]
Newar‡	-0.483	(0.337)	[-0.014]	0.477	(0.405)	[0.009]	1.188	(0.208)	[0.018]
Dalit‡	-1.250***	(0.004)	[-0.038]	0.073	(0.879)	[0.002]	-1.026	(0.110)	[-0.017]
Janjati‡	0.448	(0.516)	[0.006]	-0.342	(0.647)	[-0.003]	-0.839	(0.479)	[-0.006]
Other ‡	-1.775***	(0.001)	[-0.056]	0.505	(0.447)	[0.011]	-1.061	(0.272)	[-0.018]
Language (1=Nepali, 0=Other)	0.394	(0.380)	[0.015]	0.594	(0.187)	[0.016]	0.028	(0.966)	[0.001]
Study habits, educational background, and peer influence									
School days missed	-0.048***	(0.000)	[-0.035]	-0.060***	(0.000)	[-0.030]	-0.109***	(0.000)	[-0.041]
Log of regular study hours per day	0.409	(0.109)	[0.018]	0.311	(0.220)	[0.010]	0.920**	(0.037)	[0.022]
Read magazines regularly‡	1.418***	(0.000)	[0.053]	1.066***	(0.001)	[0.028]	0.639	(0.148)	[0.013]
No. of friends passing SLC	1.058***	(0.000)	[0.140]	1.426***	(0.000)	[0.129]	2.315***	(0.000)	[0.163]
Months of coaching / tuition	0.098	(0.482)	[0.011]	-0.247***	(0.000)	[-0.038]	-0.125*	(0.080)	[-0.018]
No. of grade repetitions	-0.923***	(0.000)	[-0.081]	-1.530***	(0.000)	[-0.093]	-2.688***	(0.000)	[-0.126]
Student's personal situation during examination									
Commuted daily‡	0.189	(0.653)	[0.008]	0.754	(0.107)	[0.023]	-0.002	(0.998)	[-0.000]
Prepared own food‡	0.031	(0.927)	[0.001]	-0.573*	(0.089)	[-0.014]	-0.633	(0.246)	[-0.012]
Sick‡	-0.061	(0.827)	[-0.002]	-0.565*	(0.060)	[-0.012]	-0.476	(0.390)	[-0.008]
Nepali medium ‡	-0.703**	(0.029)	[-0.027]	-1.695***	(0.002)	[-0.046]	-1.044	(0.116)	[-0.022]
Family Input Variables									
Distance of school from home (mins)	-0.002	(0.763)	[-0.004]	-0.010**	(0.036)	[-0.017]	-0.000	(0.994)	[-0.000]
Demographic characteristics									
Living with both parents‡	-0.079	(0.747)	[-0.003]	0.266	(0.280)	[0.008]	0.221	(0.567)	[0.005]
Family size	-0.188***	(0.001)	[-0.041]	-0.124**	(0.012)	[-0.019]	-0.311***	(0.000)	[-0.038]
Income and wealth									
Log of family's annual expenditure (Rs.000)	1.215***	(0.000)	[0.073]	0.947***	(0.005)	[0.038]	0.770	(0.125)	[0.025]

Variable	Model (1): Nepali			Model (2): English			Model (3): Math		
	Coef.	P-value	Std. coef.	Coef.	P-value	Std. coef.	Coef.	P-value	Std. Coef.
Log of family's wealth ( Rs. 00000)	0.191*	(0.076)	[0.021]	0.233*	(0.057)	[0.018]	0.114	(0.483)	[0.007]
Education background of family									
No. of SLC graduates in family	0.864***	(0.000)	[0.103]	0.871***	(0.000)	[0.072]	1.789***	(0.000)	[0.116]
Support from family and academic environment at home									
No. of books at home	0.003	(0.375)	[0.009]	0.011***	(0.000)	[0.028]	0.009*	(0.064)	[0.016]
Hours spent on household chores	-0.183***	(0.005)	[-0.026]	-0.320***	(0.000)	[-0.032]	-0.327***	(0.004)	[-0.025]
National Context									
SLC Year 2003‡	0.976*	(0.088)	[0.037]	-1.350**	(0.019)	[-0.035]	1.189*	(0.080)	[0.024]
SLC Year 2004‡	0.078	(0.896)	[0.003]	2.452***	(0.000)	[0.074]	5.904***	(0.000)	[0.137]
Community Context									
HDI	26.527*	(0.076)	[0.123]	2.686	(0.809)	[0.009]	13.344	(0.513)	[0.035]
No. private schools	0.008	(0.932)	[0.003]	0.167*	(0.051)	[0.037]	-0.007	(0.938)	[-0.001]
District headquarter‡	0.803	(0.356)	[0.030]	1.868*	(0.063)	[0.048]	2.455**	(0.031)	[0.049]
Permanent bazaar+motorable road ‡	0.478	(0.482)	[0.020]	0.226	(0.778)	[0.006]	-0.117	(0.905)	[-0.003]
School Context									
Learning environment									
Quiet neighborhood‡	2.091**	(0.011)	[0.061]	1.189	(0.126)	[0.026]	0.901	(0.484)	[0.014]
School size	0.002	(0.104)	[0.070]	0.003**	(0.047)	[0.070]	0.010***	(0.000)	[0.136]
School governance structure									
Public, not fully funded school‡	-0.348	(0.665)	[-0.012]	0.602	(0.389)	[0.015]	1.255	(0.256)	[0.024]
Private school‡	3.608**	(0.013)	[0.110]	14.330***	(0.000)	[0.317]	8.939***	(0.000)	[0.165]
No. of supervisions visits	0.015	(0.632)	[0.011]	-0.011	(0.765)	[-0.006]	-0.059	(0.208)	[-0.022]
No. of PTA meetings	-0.008	(0.955)	[-0.001]	-0.051	(0.696)	[-0.008]	-0.015	(0.939)	[-0.001]
Student socio-economic characteristics									
Dalit/Janjati (%)	0.005	(0.755)	[0.010]	-0.010	(0.430)	[-0.016]	0.016	(0.317)	[0.020]
Girls (%)	-0.013	(0.548)	[-0.014]	-0.032	(0.175)	[-0.023]	-0.043	(0.183)	[-0.024]
Non-Nepali speakers (%)	-0.022*	(0.077)	[-0.066]	-0.002	(0.888)	[-0.003]	-0.024	(0.114)	[-0.039]
Poor (%)	-0.015	(0.369)	[-0.023]	0.040***	(0.003)	[0.046]	-0.028	(0.276)	[-0.023]
SLC examination center environment									
Exam room adequacy ( 1 to 6 )	0.121	(0.251)	[0.012]	0.145	(0.202)	[0.010]	0.128	(0.471)	[0.007]
Observations	9185			9688			9242		
Adjusted R <sup>2</sup>	0.309			0.576			0.440		

### Annex 6. OLS Regression Results for Each of the Six Compulsory Subjects

Dependent variable: Total score in the subject

Variable	Model (4): Science			Model (5): Social Studies			Model (6): HPE		
	Coef.	P-value	Std. coef.	Coef.	P-value	Std. coef.	Coef.	P-value	Std. coef.
Constant	31.659***	(0.001)	[2.126]	31.202***	(0.000)	[2.512]	42.131***	(0.000)	[3.613]
School Input Variables									
General school resources									
Log of spending per student ( Rs. 000)	0.695	(0.115)	[0.032]	0.493	(0.348)	[0.026]	0.041	(0.936)	[0.002]
Student-teacher ratio in secondary school	-0.010	(0.484)	[-0.018]	-0.027*	(0.051)	[-0.059]	-0.006	(0.762)	[-0.014]
Educational materials and school facilities									
Delay in textbook delivery (days)	-0.006*	(0.082)	[-0.019]	-0.002	(0.493)	[-0.007]	-0.006*	(0.074)	[-0.025]
Pukki buildings‡	1.803*	(0.057)	[0.040]	0.645	(0.545)	[0.016]	-1.603	(0.102)	[-0.043]
Grade 10 class size	-0.034	(0.382)	[-0.118]	-0.016	(0.659)	[-0.070]	0.014	(0.598)	[0.064]
Adequate library‡	0.327	(0.620)	[0.010]	1.771**	(0.014)	[0.068]	0.403	(0.588)	[0.016]
Adequate science lab‡	0.154	(0.852)	[0.004]						
Teacher Input Variables									
Teaching experience	-0.168	(0.291)	[-0.072]	0.162	(0.247)	[0.103]	0.116	(0.422)	[0.078]
Teaching experience sward	0.003	(0.606)	[0.037]	-0.005	(0.146)	[-0.128]	-0.003	(0.425)	[-0.080]
Teachers with B.Ed. degrees (%)	0.188	(0.767)	[0.006]	-0.805	(0.291)	[-0.030]	0.036	(0.956)	[0.001]
Teachers with 10-month SEDU training (%)	0.557	(0.534)	[0.014]	-0.270	(0.756)	[-0.007]	0.089	(0.924)	[0.002]
Average short-term training days	-0.050	(0.241)	[-0.024]	0.050	(0.123)	[0.033]	-0.061	(0.300)	[-0.034]
Teacher turnover (%)	-0.173	(0.902)	[-0.003]	-0.216	(0.866)	[-0.004]	0.279	(0.827)	[0.005]
School Process Variables									
Head teacher effectiveness ( 1 to 4 )	1.427***	(0.006)	[0.057]	-1.482**	(0.011)	[-0.067]	0.453	(0.399)	[0.023]
Hours of instruction per week	0.325	(0.631)	[0.022]	0.004	(0.994)	[0.000]	0.813*	(0.090)	[0.071]
School academic policies									
Maximum failures allowed in 9 & 10	-0.033	(0.927)	[-0.002]	-0.181	(0.657)	[-0.014]	-0.007	(0.981)	[-0.001]
Number of times tested in 9 & 10	0.000	(0.999)	[0.000]	0.024	(0.668)	[0.014]	0.050	(0.317)	[0.029]
Regular homework required	0.004	(0.995)	[0.000]	-0.445	(0.544)	[-0.016]	-0.722	(0.264)	[-0.024]
Teaching load/approach									
Interactive teaching approach‡	-0.627	(0.331)	[-0.019]	-1.047	(0.137)	[-0.039]	0.731	(0.301)	[0.027]
Teaching load ( hours per day )	0.640	(0.241)	[0.027]	1.642***	(0.001)	[0.083]	0.607	(0.189)	[0.032]
Course completion rate (%)	0.022	(0.442)	[0.016]	0.059**	(0.044)	[0.044]	0.133***	(0.000)	[0.103]
Instruction time X class size	0.008	(0.360)	[0.120]	-0.002	(0.834)	[-0.034]	-0.002	(0.815)	[-0.028]
Course completion X family expenditure	-0.000	(0.875)	[-0.002]	-0.000	(0.283)	[-0.018]	0.000	(0.519)	[0.013]
Highest degree expected									
Intermediate/+2 ‡	0.386	(0.418)	[0.010]	1.618***	(0.002)	[0.049]	0.711	(0.119)	[0.023]

Variable	Model (4): Science			Model (5): Social Studies			Model (6): HPE		
	Coef.	P-value	Std. coef.	Coef.	P-value	Std. coef.	Coef.	P-value	Std. coef.
Bachelors‡	1.120**	(0.036)	[0.030]	1.996***	(0.000)	[0.065]	1.218***	(0.006)	[0.042]
Masters †‡	2.556***	(0.000)	[0.084]	3.514***	(0.000)	[0.139]	2.180***	(0.000)	[0.092]
No idea‡	1.448**	(0.030)	[0.033]	2.525***	(0.000)	[0.068]	1.571***	(0.002)	[0.044]
Student Input Variables									
Demographic characteristics									
Age	-1.139***	(0.000)	[-0.094]	-0.724***	(0.000)	[-0.072]	-0.730***	(0.000)	[-0.077]
Sex ( 1 = male, 0 = female )	2.904***	(0.000)	[0.097]	2.320***	(0.000)	[0.093]	1.086***	(0.000)	[0.046]
Ethnicity									
Chhetri‡	-0.345	(0.338)	[-0.009]	-0.031	(0.929)	[-0.001]	0.314	(0.367)	[0.011]
Newar‡	0.542	(0.341)	[0.012]	-0.283	(0.623)	[-0.007]	0.647	(0.203)	[0.016]
Dalit‡	-1.267***	(0.002)	[-0.030]	-1.414***	(0.001)	[-0.040]	-1.456***	(0.000)	[-0.045]
Janjati‡	0.576	(0.428)	[0.006]	-0.484	(0.477)	[-0.006]	0.127	(0.896)	[0.002]
Other ‡	-0.993	(0.127)	[-0.024]	-0.876	(0.144)	[-0.026]	-1.550***	(0.005)	[-0.048]
Language ( 1=Nepali, 0=Other)	1.118**	(0.021)	[0.034]	0.291	(0.537)	[0.010]	-0.137	(0.754)	[-0.005]
Study habits, educational background and peer influence									
School days missed	-0.032*	(0.052)	[-0.018]	-0.050***	(0.001)	[-0.033]	-0.035***	(0.008)	[-0.025]
Log of regular study hours per day	1.020***	(0.000)	[0.034]	0.227	(0.380)	[0.009]	0.268	(0.281)	[0.012]
Read magazines regularly‡	0.916***	(0.002)	[0.027]	0.752***	(0.006)	[0.026]	0.657***	(0.009)	[0.024]
No. of friends passing SLC	1.508***	(0.000)	[0.153]	1.240***	(0.000)	[0.150]	1.167***	(0.000)	[0.150]
Months of coaching / tuition	-0.160**	(0.017)	[-0.028]	-0.084	(0.473)	[-0.007]	-0.014	(0.916)	[-0.001]
No. of grade repetitions	-1.852***	(0.000)	[-0.125]	-0.835***	(0.000)	[-0.067]	-1.276***	(0.000)	[-0.110]
Student's personal situation during examination									
Commuted daily‡	0.399	(0.321)	[0.013]	0.224	(0.608)	[0.009]	0.451	(0.295)	[0.019]
Prepared own food‡	-0.205	(0.590)	[-0.006]	-0.312	(0.348)	[-0.010]	-0.825**	(0.012)	[-0.030]
Sick‡	-0.583	(0.101)	[-0.014]	-0.390	(0.184)	[-0.011]	-0.561*	(0.056)	[-0.018]
Nepali medium ‡	-0.854**	(0.041)	[-0.026]	-0.259	(0.532)	[-0.009]	-0.664*	(0.055)	[-0.025]
Family Input Variables									
Distance of school from home (mins)	-0.001	(0.912)	[-0.001]	-0.011**	(0.020)	[-0.024]	0.004	(0.296)	[0.011]
Demographic characteristics									
Living with both parents‡	0.176	(0.489)	[0.006]	0.108	(0.664)	[0.004]	0.281	(0.234)	[0.011]
Family size	-0.220***	(0.000)	[-0.038]	-0.145***	(0.008)	[-0.030]	-0.128**	(0.013)	[-0.027]
Income and wealth									
Log of family's annual expenditure (Rs.000)	0.507	(0.170)	[0.023]	0.930**	(0.023)	[0.050]	0.037	(0.924)	[0.002]
Log of family's wealth ( Rs. 00000)	0.079	(0.546)	[0.007]	-0.038	(0.723)	[-0.004]	0.015	(0.898)	[0.002]

Variable	Model (4): Science			Model (5): Social Studies			Model (6): HPE		
	Coef.	P-value	Std. coef.	Coef.	P-value	Std. coef.	Coef.	P-value	Std. coef.
Education background of family									
No. of SLC graduates in family	0.977***	(0.000)	[0.090]	0.644***	(0.000)	[0.071]	0.589***	(0.000)	[0.069]
Support from family and academic environment at home									
No. of books at home	0.003	(0.387)	[0.008]	0.003	(0.490)	[0.009]	0.002	(0.390)	[0.007]
Hours spent on household chores	-0.106	(0.178)	[-0.012]	-0.228***	(0.001)	[-0.030]	-0.105	(0.189)	[-0.015]
National Context									
SLC Year 2003‡	3.300***	(0.000)	[0.096]	0.331	(0.646)	[0.012]	-1.669**	(0.010)	[-0.062]
SLC Year 2004‡	5.070***	(0.000)	[0.169]	-0.372	(0.596)	[-0.015]	-0.697	(0.255)	[-0.030]
Community Context									
HDI	26.903*	(0.096)	[0.098]	31.227**	(0.025)	[0.136]	30.392	(0.109)	[0.139]
No. of private schools	-0.084	(0.356)	[-0.021]	-0.184**	(0.018)	[-0.057]	-0.012	(0.923)	[-0.004]
District headquarters‡	2.383**	(0.012)	[0.067]	0.733	(0.367)	[0.025]	0.148	(0.891)	[0.005]
Permanent bazaar+motorable road ‡	-1.090	(0.133)	[-0.035]	-0.405	(0.597)	[-0.016]	0.005	(0.995)	[0.000]
School Context									
Learning environment									
Quiet neighborhood‡	1.403	(0.118)	[0.033]	1.972**	(0.041)	[0.055]	1.157	(0.312)	[0.030]
School size	0.005***	(0.001)	[0.119]	0.006***	(0.003)	[0.156]	0.002	(0.221)	[0.057]
School governance structure									
Public, not fully funded school‡	1.424*	(0.070)	[0.040]	1.107	(0.176)	[0.036]	0.306	(0.729)	[0.011]
Private school‡	12.018***	(0.000)	[0.309]	6.041***	(0.000)	[0.181]	5.984***	(0.000)	[0.183]
No. of supervisions visits	0.002	(0.957)	[0.001]	-0.041	(0.288)	[-0.027]	-0.031	(0.483)	[-0.022]
No. of PTA meetings	0.059	(0.635)	[0.009]	0.067	(0.625)	[0.011]	0.086	(0.360)	[0.019]
Student socio-economic characteristics									
Dalit/Janjati (%)	-0.004	(0.758)	[-0.007]	0.022	(0.140)	[0.045]	0.013	(0.388)	[0.027]
Girls (%)	-0.039	(0.249)	[-0.031]	-0.002	(0.906)	[-0.003]	-0.003	(0.932)	[-0.003]
Non-Nepali speakers (%)	-0.021*	(0.072)	[-0.049]	-0.018	(0.112)	[-0.050]	-0.038***	(0.006)	[-0.109]
Poor (%)	0.010	(0.594)	[0.012]	-0.024	(0.251)	[-0.035]	0.009	(0.648)	[0.014]
SLC examination center environment									
Exam room adequacy ( 1 to 6 )	0.245*	(0.058)	[0.019]	0.386***	(0.001)	[0.035]	0.270***	(0.007)	[0.026]
Observations	8924			8680	0.362	0.36	8442		
Adjusted R <sup>2</sup>	0.490			0.362			0.364		

\* significant at 10%; \*\* significant at 5%; \*\*\* significant at 1%, ‡(1 = Yes, 0 = No )

## Annex 7. Consistency among the Subject-wise Regressions in Annex 5

Dependent variable: Total score in the subject				
Explanatory variable	Direction of relationship	Stability of relationship	Consistent with Table 5.2?	Variable type
Highest degree expected: Bachelors‡	+	Highly stable	Yes	SCH
Highest degree expected: Masters †‡	+	Highly stable	Yes	SCH
Highest degree expected: No idea‡	+	Highly stable	Yes	SCH
Age	-	Highly stable	Yes	ST
Sex ( 1 = male, 0 = female )	+	Highly stable	Yes	P, ST
School days missed	-	Highly stable	Yes	P, ST
No. of friends passing SLC	+	Highly stable	Yes	ST
No. of grade repetitions	-	Highly stable	Yes	ST
Family size	-	Highly stable	Yes	F
No. of SLC graduates in family	+	Highly stable	Yes	F
School type: Private school‡	+	Highly stable	Yes	C
Read magazines regularly‡	+	Stable	Yes	ST
SLC Year 2003‡	+/-	Stable	No	C
Delay in textbook delivery (days)	-	Stable	Yes	P, SCH
Ethnicity: Janjati‡	-	Stable	Yes	P, ST
Nepali medium ‡	-	Stable	Yes	P, ST
Hours spent on household chores	-	Stable	Yes	F
School size	+	Stable	Yes	C
Adequate library‡	+	Weakly stable	Yes <sup>†</sup>	P, SCH
Course completion rate (%)	+	Weakly stable	Yes <sup>†</sup>	P, SCH
Months of coaching / tuition	-	Weakly stable	Yes	ST
Log of family's annual expenditure (Rs.000)	+	Weakly stable	Yes	F
SLC Year 2004‡	+	Weakly stable	Yes	C
HDI	+	Weakly stable	Yes	C
District headquarters‡	+	Weakly stable	No	C
Non-Nepali speakers (%)	-	Weakly stable	No	C
Exam room adequacy ( 1 to 6 )	+	Weakly stable	Yes	P, C

‡(1 = Yes, 0 = No ), †Consistent with Model (4) in Table 5.2  
P=Policy variable; C=Context variable; F=Family variable; SCH=School variable; ST=Student variable

## Annex 8. Number of Sample Schools in Each Sample District

District	Region	No. of public schools				No. of private schools				Grand total
		Small	Medium	Large	Total	Small	Medium	Large	Total	
Jhapa	E. terai	2	6	12	20	8	6	2	16	36
Saptari		2	6	4	12	1	0	1	2	14
Chitwan	C. terai	1	8	7	16	4	3	1	8	24
Dhanusha		4	5	6	15	1	1	1	3	18
Rupandehi	W. terai	5	5	6	16	5	2	2	9	25
Dang	M.W. terai	5	4	1	10	4	1	1	6	16
Kanchanpur	F.W. terai	3	4	3	10	1	1	0	2	12
<i>Terai</i>		22	38	39	99	24	14	8	46	145
Dhankuta	E. hill	7	4	2	13	2	0	0	2	15
Okhaldhunga		2	4	4	10	0	0	0	0	10
Udayapur		4	3	4	11	2	0	0	2	13
Dhading		5	5	3	13	1	0	0	1	14
Kavre	C. hill	5	9	5	19	2	1	1	4	23
Arghakhanchi		3	10	5	18	1	0	0	1	19
Lamjung	W. hill	11	6	2	19	1	1	0	2	21
Myagdi		8	2	1	11	1	1	0	2	13
Tanahun	M.W. hill	14	7	3	24	3	4	1	8	32
Dailekh		4	4	1	9					9
Surkhet		6	4	2	12					12
Achham		4	3	1	8					8
Doti	F.W. hill	6	2	0	8					8
<i>Hill (no K.V.)</i>		79	63	33	175	13	7	2	22	197
Solukhumbu	E. mountain	6	2	1	9					9
Rasuwa	C. mountain	7	2	1	10					10
Mustang	W. mountain	2	0	0	2					2
Humla	M.W. Mountain	2	0	0	2					2
Kalikot	F.W. mountain	4	0	0	4					4
Bajhang		5	2	1	8					8
<i>Mountain</i>		26	6	3	35					35
Bhaktapur	Kathmandu Valley	3	3	3	9	10	2	2	14	23
Lalitpur	Kathmandu Valley	6	6	2	14	28	7	3	38	52
<i>Kathmandu Valley</i>		9	9	5	23	38	9	5	52	75
<b>Nepal</b>		<b>136</b>	<b>116</b>	<b>80</b>	<b>332</b>	<b>75</b>	<b>30</b>	<b>15</b>	<b>120</b>	<b>452</b>

## Annex 9. Descriptions of context variables

Variable	Description
A. NATIONAL CONTEXT	
1. <i>SLC year</i>	Year when student took the most recent SLC exam
B. COMMUNITY CONTEXT	
2. <i>HDI</i>	Human development index of the district
3. <i>No. private schools</i>	Number of private schools in the vicinity of the sample school
4. <i>No. public schools</i>	Number of public schools in the vicinity of the sample school
5. <i>District HQ</i>	Whether or not school is located in the district headquarters (1 if yes, 0 otherwise)
6. <i>Permanent bazaar+ motorable road</i>	Whether or not there are a motorable road and permanent bazaar within one hour walking distance from the school (1 if yes, 0 otherwise)
7. <i>Eco-development region</i>	Eco-development region to which the school belongs (one of 16 regions)
C. SCHOOL CONTEXT	
<u>Learning environment</u>	
8. <i>Quiet Neighborhood</i>	Whether or not school is located in a quiet neighborhood (1 if yes, 0 otherwise)
9. <i>School size</i>	Number of students from the smallest grade till grade 10
<u>School governance structure</u>	
10. <i>School type</i>	The type of school (1=public, fully govt. funded; 2=public, partially government funded; 3=private, trust/company)
11. <i>No. supervision visits</i>	Number of school supervision visits last year by officials from MOES, DOE, and other institutions within MOES
12. <i>No. PTA meetings</i>	Number of Parent Teacher Association (PTA) meetings held last year
<u>Socio-economic characteristics of student body</u>	
13. <i>Dalits/Janajatis</i>	Percent of Dalits and Janajatis in the school
14. <i>Girls</i>	Percent of Girls in the school
15. <i>Non-Nepali speakers</i>	Percent of non-Nepali speakers in the school
16. <i>Poor</i>	Percent of extremely poor students in the school
<u>SLC exam center environment</u>	
17. <i>Exam room adequacy</i>	Adequacy in terms of furniture, light, ventilation, space, quietness, drinking water availability (0=inadequate in all six areas; 1=adequate in one area only; .... , 6=adequate in all six areas)

## Annex 10. Descriptions of student input variables

Variable	Description
<u>Demographic characteristics</u>	
1. <i>Age</i>	Age when student took the most recent SLC exam
2. <i>Sex</i>	Student's gender (1 if male, 0 otherwise)
3. <i>Ethnicity</i>	Student's ethnicity (Hill Brahman=1; Chettri = 2; Newar = 3; Janajati = 4; Dalit = 5; Other = 6) <sup>1</sup>
4. <i>Language</i>	Language spoken by student at home (1 if Nepali, 0 otherwise)
<u>Study habits, educational background and peer influence</u>	
5. <i>School days missed</i>	Percentage of school days student missed in grade 10
6. <i>Daily study hours</i>	Number of hours student spent studying each day during the last 6 months before SLC
7. <i>Read magazines regularly</i>	Whether student read magazines and newspapers regularly in secondary school (1 if yes, 0 otherwise)
8. <i>No. friends passing SLC</i>	Among student's five closest friends, the number that passed the SLC exams
9. <i>Months of coaching/ tuition</i>	Total months spent by students on coaching classes in grades 9 & 10
10. <i>No. of repetitions</i>	Number of times student repeated class in secondary and lower secondary school, including SLC repetition
11. <i>Grade 9 aggregate score</i>	Aggregate score (out of 100) of student in grade 9
<u>Student's personal situation during exam</u>	
12. <i>Whether commuted daily</i>	Whether exam center was within daily commute distance (1 if yes, 0 if no)
13. <i>Prepared own food</i>	Whether student had to prepare own food during SLC
14. <i>Sick</i>	Whether student was sick during SLC (1 if yes, 0 if no)
15. <i>Nepali medium</i>	Language in which student wrote the SLC exams (1 if Nepali, 0 otherwise)

<sup>1</sup> The survey actually allowed the students to be categorized into 76 different caste/ethnic groups. In the current analysis, the 76 caste/ethnic groups listed in the survey questionnaires have been grouped into six broad categories to facilitate the analysis process. It might be noted that the Census of 2001 has identified a total of 100 different caste/ethnic groups for data collection purposes (Dahal 2001).

**Annex 11. Descriptions of family input variables**

<b>Variable</b>	<b>Description</b>
<u>Location</u>	
<i>1. Distance of school from home</i>	Minutes taken to commute to school daily
<u>Demographic characteristics</u>	
<i>2. Living with both parents</i>	Whether student lived with both parents in 10th grade (1 if yes, 0 otherwise)
<i>3. Family size</i>	Number of people who ate in the same kitchen
<u>Income, wealth, and employment</u>	
<i>4. Family's annual expenditure</i>	Total of all expenditure including consumption of goods produced at home or received in-kind
<i>5. Family's wealth</i>	Total monetary value of all assets
<u>Educational background of family</u>	
<i>6. No. of SLC graduates in family</i>	Number of SLC graduates in family
<u>Support from family and academic environment at home</u>	
<i>7. No. books at home</i>	Number of books, apart from textbooks, at home
<i>8. Hours spent on household chores</i>	Number of hours per day spent by student on household chores

**Annex 12. Descriptions of school and teacher input variables**

Variable	Description
A. SCHOOL INPUT VARIABLES	
<u>General school resources</u>	
<i>1. Spending per student</i>	Annual school expenditure per student in rupees
<i>2. Student-teacher ratio in secondary school</i>	Student-teacher ratio in secondary school
<u>Educational materials and school facilities</u>	
<i>3. Delay in textbook delivery</i>	The total number of days students had to wait after starting school before obtaining all the textbooks (in grade 9 + in grade 10)
<i>4. Pukka buildings</i>	Whether the secondary school buildings are primarily "pukka" or "kucchi" (1 if pukka, 0 otherwise)
<i>7. Grade 10 class size</i>	Number of students in grade 10
<i>8. Adequate library</i>	Whether a library exists (1 if there are rooms dedicated for library use, 0 otherwise)
<i>9. Adequate science lab</i>	Whether school has an adequate science lab (1 if yes, 0 otherwise)
B. TEACHER INPUT VARIABLES	
<i>10. Teaching experience</i>	Average years of teaching experience of secondary school teachers (see Teacher Questionnaire--B.14)
<i>11. Teacher with B. Ed. degrees</i>	Percentage of secondary school teachers who have a B. Ed. degree or have any BA plus a one-year M. Ed.
<i>12. Teachers with 10-month SEDU training</i>	Percentage of secondary school teachers who have taken the 10-month SEDU training
<i>13. Average short-term training days</i>	Average number of days spent on short-term trainings by a teacher in one year
<i>14. Teacher turnover</i>	Ratio of total number of teachers who either resigned, retired, passed away, transferred, were fired, or were deputed elsewhere to total number of teachers in the school in 2004.

## Annex 13. Descriptions of school process variables

Variable	Description
A. SCHOOL LEVEL	
1. <i>Head teacher effectiveness</i>	Teachers' opinions regarding how effective the head teacher was in managing the schools (1 = not at all effective, ..., 4=very effective)
B. CLASSROOM/TEACHER LEVEL	
<u>Time on task</u>	
2. <i>Hours of instruction per week</i>	Number of hours allocated per week for instruction (sum of hours allocated for the 6 compulsory and 2 optional subjects).
<u>School's academic policies</u>	
3. <i>Maximum failures allowed in 9 &amp; 10</i>	Maximum number of subjects a student can fail and still be promoted in secondary school
4. <i>Number of times tested in 9 &amp; 10</i>	Number of times per year students are tested (includes all tests from unit tests to annual exams)
5. <i>Regular homework required</i>	Whether teachers are required to assign homework regularly (means on average one homework per week per subject) (1 if required, 0 otherwise)
<u>Teaching load and approach</u>	
6. <i>Interactive teaching approach</i>	Whether teachers, on average, mainly lecture in class or use an interactive teaching style (1 if interactive, 0 otherwise)
7. <i>Teaching load</i>	Average teaching load per teacher (in hours per day)
8. <i>Course completion rate</i>	Percentage of the SLC course completed before the SLC exams
<u>Student level</u>	
9. <i>Highest degree expected by student</i>	Highest degree student expected to achieve {1 = SLC, 2=Intermediate/+2, 3=Bachelors, 4=Masters +, 5=No idea}

## Chapter XI : Case Study of Effective and Ineffective Schools

### Annex 1. School Traits and Practices

Trait or Practice	Schools																											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Adequate physical facilities	+	+	+	+	+	+	+	+	+	+	+	+		+				+	-							+	+	+
Active head teacher	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	-		+				+	+	+	
Stable head teacher	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+		+			+	+	+	+	+
All subject teachers	+	+	+	+	+	+	+		+	+	+	+	+	+												+	+	+
Teachers meetings	+	+	+	+	+	+	+			+	+		+	+			+	-										
Teacher collegiality	+		+	+	+	+	+		+	+	+	+	+	+				+		+	+			+	+			
Assign homework	+	+	+	+	+	+	+	+		+	+	+		+			+		+		+		+					
Check homework	+	+	+	+	+		+				+		+															
Extra coaching		+	+			+	+				+		+			+			+							+		
Personal attention	+	+	+		+		+			+	+		+	+					+	+								
Projects/problems	+		+			+	+				+											+				+		
Group works	+	+	+				+				+																	
Students ontask	+	+	+	+	+		+			+	+		+	+	+	+		+	+	+	+	+			+		+	+
Course completion	+	+	+	+	+		+	+		+	+		+	+												+		
Frequent testing	+	+	+		+		+		+		+		+	+				+										
Feedback to student	+	+	+	+	+		+			+	+		+	+								+	+			+		
Learning focus		+	+		+	+	+	+			+		+	+			+				+		+	+		+		
Parents involved	+	+	+		+		+	+	+			+	+										+				+	+
Active SMC	+		+	+	+		+	+	+	+	+	+	+			+		+								+	+	
Reward system	+	+		+	+			+		+		+	+									+						
Public support	+		+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+	+	+
Public image (+ve)	+		+	+	+	+	+	+	+	+	+	+	+	+			+	+		+	+		+			+	+	+
Supervision	+	+		***			+	+		+		+		+														
Conflict affected		+	+		N A	+	+	N A	+	N A	N A	N A	N A	N A	+	N A	+	+	+	N A	+	+	+	T		+	N A	N A

Note: + = practice exists, = practice does not exist, \*\* = Doubt?, T = Threat, NA = Information not available

## Annex 2. Brief Profile of Case Schools

No	Name and address of the school	Type		Year of Establishment	Total No of Students	Total No of Teachers	Student Teacher Ratio	No of Students in Secondary Level			No of SLC Pass in Year			Average No of Graduates per Year
		Urban	Rural					Grade 9	Grade 10	Total 9+10	2058	2059	2060	
1	Gyanodaya Secondary School, Sanepa, Lalitpur	Urban		1963P/1982S	1784	63	28.3	150	131	281	84	75	90	83
2	Gems Secondary Boarding School, Sanepa hight Lalitpur	Urban		1984	3036	146	20.8	NA*	NA	NA	114	136	130	126.6
3	Nava Jagriti Chandii Secondary School, Gorkha		Rural	1962	703	12	58.6	47	23	70	25	44	33	34
4	Khaireni Secondary School, Khaireni VDC4,Tanahu	Urban		1969	852	24	35.5	174	120	294	13	69	36	39.3
5	TriPadma Secondary School , Lalitpur	Urban		1947	887	43	20.6	70	38	108	28	37	35	33.3
6	Amar Jyoti Secondary School, Jarbuta VDC, Surkhet	Urban		1965	1175	22	53.4	387	116	503	46	72	52	56.7
7	Sagarmatha Boarding School, Panchali, Sub Metropolitan, Biratnagar 15, Morang	Urban		1996	1432	59	24.27	86	78	164	33	49	77	53
8	Balambhu Secondary School, Kathmandu	Urban		1971	736	23	32	61	45	106	37	38	37	37.3
9	Public Bindeshowri Secondary School, Rajbiraj, Saptari	Urban		1946	1127	26	43.3	230	123	353	14	32	44	30
10	Bal Kumari Kanya Madhyamic Vidyalaya, Chitwan	Urban		1951	2317	61	38	142	105	247	55	60	46	53.7
11	Janahit Secondary School, Jomsom, Mustang		Rural	1954	164	13	12.6	36	25	61	15	14	14	14.3
12	Janajyoti Secondary School, Municipality13, Udaypur,	Urban		1962	1025	20	51.3	57	24	81	24	10	37	23.7
13	Saudiyar Secondary School, Saudiyar, Dang	Urban		1973	1412	21	67.2	93	67	160	4	4	10	6
14	Sramik Santi Secondary School, Chasyal, Lalitpur District	Urban		1955	994	22	38.5	47	42	89	30	27	29	28.7

No	Name and address of the school	Type		Year of Establishment	Total No of Students	Total No of Teachers	Student Teacher Ratio	No of Students in Secondary Level			No of SLC Pass in Year			Average No of Graduates per Year
		Urban	Rural					Grade 9	Grade 10	Total 9+10	2058	2059	2060	
15	Tilshwar Secondary School,Guth, Teliya Village Development Committee, Ward 2, Dhankuta		Rural	1951	2782	12	231	22	26	48	0	0	5	1.7
16	Deurali Secondary School, Jumlakot, Malikasthan VDC 2, Jumla		Rural	1960	184	11	16.7	9	6	15	0	0	0	0
17	Sri Nirku Bhume Secondary School, Saramthali, Rasuwa.		Rural	1962	367	14	26.2	33	20	53	8	1	13	7.3
18	Sri Changesthan Secondary School, Kerung, Solukhumbu		Rural	1961	428	12	35.6	54	34	88	1	0	1	0.7
19	Sri Bhrikuti Secondary School, Khimadi, Pandaun, Kailali		Rural	2000	191	7	27.3	10	11	21	0	0	0	0
20	Panchoday Secondary School, Nakharhi, Mugu		Rural	1965	129	8	16.2	10	8	18	0	0	0	0
21	Bindhyabasini Secondary School, Accham.		Rural	1973	358	12	29	30	29	59	0	0	0	0
22	Siddha Secondary School, Gadhi VDC, Mehelpani, Surkhet		Rural	1968	268	12	22.3%	9	21	30	14	13	8	11.7
23	Raling Secondary school,Bargaun6, Humla		Rural	1976	137	11	12.5	5	5	10	6	1	0	2.3
24	Siddhi Ganesh Secodnary School, Nagadesh, Bhaktapur	Urban		1980	NA	NA	NA	23	28	51	10	10	10	10
25	Radha Krishna Secondary School, Doti		Rural	1952	510	13	39.2	34	37	71	19	19	20	19.3
26	Laxmi Secondary School, Dodhara, Kanchanpur		Rural	1909	1000	26	38.5	102	31	133	5	5	5	5
27	Krishna Secondary School, Maidan, Arghakhanchi		Rural	1954	447	15	29.8	51	67	118	4	2	3	3
28	Purkot Secondary School, Mulabari, Tanahun		Rural	1924	374	12	31.2	29	36	65	1	0	0	0.3

\* Data not available