

# Vocational Education Programme in Sikkim

## A Report

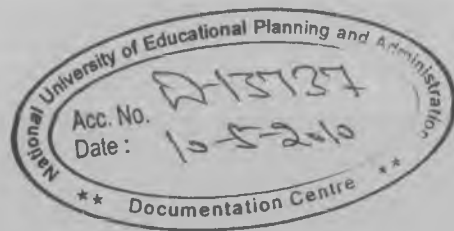
### Skill Development for a Resourceful State

NUEPA DC



D13737

Vocational Section  
Human Resource Development Department  
Government of Sikkim





*Pawan Chamling*  
(Honoris Causa)  
Chief Minister of Sikkim



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### MESSAGE

**I am pleased to know that the Human Resource Development Department is bringing out the Report on Vocational Education.**

**In order that our youths' inherent talents are harnessed to its full potential, Vocational Education needs to be promoted more vigorously. Besides equipping our youths with relevant skills, it will also prepare them to face the challenges of life later on. I convey my good wishes to the Human Resource Development Department for their endeavours towards making the Vocational Education Programme a success and for bringing out this Report.**

**( Pawan Chamling )**

Gangtok: 06.12.06



G. M. Gurung  
Minister



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Human Resources Development Deptt/  
Cultural Affairs & Heritage Deptt.  
Government of Sikkim

Hon'ble Minister, HRDD

Through Vocational education, we hope to provide and develop our local human resources into skilled and competently proficient manpower.

The State has worked hard to make this Programme a success and help achieve economic growth of the State.

I congratulate all concerned on this fantastic job for their continuous efforts to help make this Programme a success, and; further urge to make new inroads to achieve all that has been envisaged under vocationalization of secondary education at plus two level.

With Best Wishes,



(G. M. Gurung)  
Minister

Human Resource Development Department



K. P. Adhikari/IAS  
Secretary



**Human Resources Development Department  
Government of Sikkim**

**Gangtok-737 103  
Sikkim**

MESSAGE

The Report on vocational education in Sikkim is a chronicle of events, efforts & achievements that would serve well to highlight the various aspects, components and progress made by the Department. This would enable us to reach the grass-root level for spreading the message and widening scope of vocational education and training in the state.

I hope that the Department will be able to fulfil the aims and objectives under the Programme for enriching our state with skilled & highly skilled manpower from amongst our local youths.

I congratulate all concerned, on their earnest efforts for making this Programme a success. Let us now strive with more commitment so that our students may derive optimum dividends from their acquired knowledge and practical and employable skills which would be extremely beneficial for them.

With Best Wishes,

**(K. P. Adhikari, IAS)  
Secretary**

**Human Resource Development Department**

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Director  
Secondary, Sr Sec & Vocational Education

Directorate of Sec, Sr Sec & Vocational Education  
Human Resources Development Department  
Government of Sikkim

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dated: 5<sup>th</sup> October, 2006

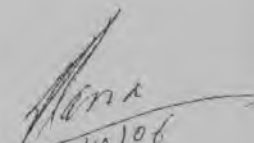
### MESSAGE

It gives me immense pleasure in bringing out this Report on the ongoing Programme of vocationalization of secondary education at plus two level in 40 Government Senior Secondary Schools of Sikkim.

With this report, we may be able to successfully spread awareness amongst the students and public on this noble venture to not only make Sikkim a productive society but also to combat the menace of ever increasing unemployment of youths.

Active cooperation from students, teachers, parents, Panchayati Raj Institutions and all stakeholders is sought to enable us fulfil the vision of making Sikkim a self-reliant state under the dynamic leadership of our Hon'ble Chief Minister.

With Best Wishes,

  
05/10/06  
Director (S, SS & VE)

Human Resource Development Department

# PREFACE

Sikkim is a new and predominantly a hilly state which lacks in Organized Sector. As per the Planning Commission, the Unorganized Sector makes up 93% of total employment; which clearly calls for the need to give emphasis on the Unorganized Sector.

The implementation of Vocational Education as distinct vocational streams/additional subjects at +2 level in 40 Government Senior Secondary Schools of Sikkim was initiated with effect from February 2004. The implementation of the project started with the fund received from Ministry of Human Resource Department, Government of India, New Delhi. The Academic session starts from mid February and ends in mid December. Two Academic Years viz. 2004 and 2005 have already been completed under the Vocational Education Programme. The Vocational Education Programme is presently on course its third Academic Year viz. 2006. The Vocational education Programme at +2 level in the 40 Govt Senior Secondary Schools in Sikkim is run on sharing basis between the Central Government and the State Government.

The State Government is well aware of the crucial role of Vocational Education & Training and has already taken a number of important initiatives. The higher secondary vocationalization programme aims to develop skilled manpower through diversified courses to meet the requirements of mainly the unorganized sector and to prepare people for the world of work in general through a large number of self employment oriented courses, not precluding wage employment orientation of many courses. Through diversification into production and service oriented courses, it is desired to reduce the aimless pursuit of higher education. Vocational courses are grouped under the major areas of agriculture, business and commerce, engineering and technology health and para medical, home science and humanities. The design consists of theory and practice relating to the vocational field, related subjects, language and general foundation studies which includes entrepreneurship.

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## CHAPTER I

### INFORMATION AT A GLANCE

- ② Name of the Project: **“Vocational education at +2 level in Govt Senior Secondary Schools in Sikkim”**
- ② Project started w.e.f. : **February, 2004**
- ② Implementing Agency : **Human Resource Development Department, Government of Sikkim.**  
In collaboration with **M/S SIBin, Tadong.**
- ② Number of Districts covered : **Four (4)**
- ② Number of SS Schools on which Vocational Trades have been introduced : **Forty (40) Govt Sr Sec Schools**
- ② District wise number of SS Schools :
- |       |                          |
|-------|--------------------------|
| (i)   | <b>North - 03</b>        |
| (ii)  | <b>East - 19</b>         |
| (iii) | <b>West - 10</b>         |
| (iv)  | <b>South - 08</b>        |
|       | <b><u>Total - 40</u></b> |
- ② Enrolment : **1359** (as on Sept. 2006)
- ② Number of Teaching & Non-Teaching Staff : **321**
- ② Number of Vocational Trades : **10 Vocational Streams\*\***  
\*\* (8 Approved by CBSE, New Delhi, 2 Awaited)

⊙ **Supervising Team (State Level)**

1. Mr. Dawa Samdup, Special Secretary-cum-Director, Voc Edn.
2. Dr. D.P.S. Rana, Additional Director.
3. Mr. H.B. Sharma, Joint Director (Voc Edn).
4. Mr. K.N. Subudhi, Deputy Director (Voc Edn).
5. Mrs. D. Pradhan, Assistant Director (Voc Edn).
6. Mr. G. Pega, Under Secretary (Voc Edn).
7. Mr. D.V. Basnet, Asst Edn Officer (Voc Edn).
8. Mr. P.T. Bhutia, APC (Voc Edn).

⊙ **Supervising Team (District Level)**

1. Joint Directors' (East/West/South & North), HRDD.
  2. Deputy Directors' (East/West/South & North), HRDD.
-

## CHAPTER II

# STATE PROFILE

**S**ikkim – a small Himalayan State became the 22<sup>nd</sup> state of India in the year 1975. Situated in-between latitudes 27°-28° N and longitudes 88°-89° S, in the North Eastern part of India, the State shares its borders with China in the north, Bhutan in the East, Nepal in the west and Darjeeling District in the south.

The capital of the State is Gangtok.

According to the Census 2001, the population of Sikkim is 5.40 lakhs of which 2.52 lakhs are female. Sikkim's population density per square kilometre comes to 76.

Table I: Population of Sikkim

Sl. no.	Name of the District	Male	Female	Total
1	North	22643	17139	39782
2	South	68227	63279	131506
3	East	132917	112123	245040
4	West	63912	59344	123256
5	State	287699	251885	539584

Source: Primary Census Abstract CD6 Year: 2003

As maybe seen at Table I; East district has the highest population whereas North District is the least populated.

Table II: SC/ST Gender-wise Population of Sikkim

Sl. No.	District	Population					
		SC			ST		
		Male	Female	Total	Male	Female	Total
1	North	523	356	879	11103	10306	21409
2	South	3144	3110	6254	10316	10156	20472
3	East	7275	7002	14277	23070	22251	45321
4	West	2933	2814	5747	12249	11580	23829
5	State	13875	13282	27157	56738	54293	111031

Source: Primary Census Abstract CD6 Year: 2003

Table II shows the Gender-wise population of SC/ST in the State. The SC population is highest in the East District. The highest concentration of ST (53.81%) is seen in the North District.

There are four districts of Sikkim viz. North District- with 55.56% of the total area of Sikkim which is 7096 square kilometres. 13.44% falls under the East District, 10.57% in the South District and 16.43% in the West District. Most of the 7096 sq km of Sikkim consists of Himalayan glaciers, mountainous terrain that is interspersed with ravines and green valleys.

The State is blessed with rich natural resources like dense forest, variety of flora and fauna, lakes, glaciers and rivers such as *Teesta* and *Rangit* which originating from the serene glaciers of the Himalayas meander through before their confluence at Darjeeling District, West Bengal. Over 4000 species of different plants and shrubs, around 700 species of rare Orchids and rhododendrons have transformed Sikkim into a nature's paradise.

There is enormous potential for development of horticulture, floriculture, medicinal plants production and tourism related sectors in the State. The three main communities in Sikkim viz. *Lepchas*, *Bhutias* and *Nepalis* live harmoniously, with Agriculture being their mainstay of livelihood and thus the backbone of the State's economy. The unparalleled beauty of the State and very friendly and hospitable people are its competitive and comparative advantages.

## CHAPTER III

# EDUCATION SCENARIO

---

The present State Government's emphasis on Education is aptly demonstrated on the sizeable 17% out of the total State budget, it allocates, annually for the purpose of Education. It now personifies the commitment of the Sikkim Government's initiative to provide quality education to all.

The Administrative System of Sikkim is distributed with the Secretary as Head of the Department supported by Special Secretary, Chief Engineer and the four Directors, including Director, Technical Education; immediately under him.

Higher Education and Planning is looked after by the Special Secretary. The relevant civil works of the department is entrusted to the Chief Engineer under whom electrical division has also been added recently.

The Director (Secondary, Senior Secondary & Vocational Education) looks after all matters related with Vocational Education & Training in the state of Sikkim in addition to responsibilities, related with Secondary & Senior Secondary School Education. So as to harness the ever-growing problem of unemployment, Vocational Section has been supplemented in the Department. It is hoped that vocationalization of education would be able to diversify a sizeable population of students and help them develop knowledge and practical skills with a strong focus for capacity building that would enable them to face future challenges and prepare them for gainful employment. With avenues to the Government jobs having reached saturation situation, Vocational Section has been included in the HRD Department and to which continuous support, guidance and cooperation from all the different cells/sections of the Department is extended and provided.

The Director (Academics & Administration) looks after matters in respect of Examinations, policy guidelines, administration of HRDD personnel, issues regarding teachers, transfer of teachers in the formal education system apart from Training and Coordination. The Director, Elementary Education & Literacy is

vested with the responsibilities viz. Sarva Shiksha Abhiyan and various other matters dealing with School education in the elementary level, literacy campaigns and so on. The Technical Education Section is looked after by the Director, Technical Education.

Table III: District-wise Decadal Progress and Comparison of Literacy Rate in Sikkim

District	1991 Census Literacy (%)			2001 Census Literacy (%)		
	Male (%)	Female (%)	Total (%)	Male (%)	Female (%)	Total (%)
North	63.84	40.69	52.26	75.7	55.4	67.2
South	63.18	43.7	53.44	74.3	59.7	67.3
East	73.1	55.66	64.38	81.2	66.8	74.7
West	54.92	35.26	45.09	66.8	50.1	58.8
<b>State</b>	<b>63.74</b>	<b>43.82</b>	<b>53.79</b>	<b>76</b>	<b>60.4</b>	<b>68.8</b>
<b>Increase in Literacy Rate: Male = 12.26%, Female= 16.58%, Total = 15.01%</b>						

Source: Census of India 1991  
Census of India 2001

Table III above shows wise the progress and comparison of Literacy Rate in Sikkim, as recorded in 1991 & 2001 census. From 53.79% in 1991, the state has recorded an increase of 15.01% with a 68.8% Literacy Rate. As per the 2001 Census, East district has recorded the highest literacy rates for females (66.8%) as well as males (81.2%).

During the mid-nineties, Sikkim boasted of only 86 Educational Institutions. By the end of the Year 2004, tremendous expansion in the education sector has resulted to the present figure of 783 Govt Schools in Sikkim.

Table IV: Educational Institutions in the State, as on Sept, 2005.

District	Govt School	Private School	Pre-Primary *	Monastic schools	ICDS	JNV/KV	College	Total
North	90	18	90	18	88	1	0	215
South	226	53	225	20	115	1	2	417
East	242	120	242	28	150	1	5	546
West	225	55	225	13	122	1	1	417
<b>State</b>	<b>783</b>	<b>246</b>	<b>782</b>	<b>79</b>	<b>475</b>	<b>4</b>	<b>8</b>	<b>1595</b>

Source: Planning, Monitoring and Evaluation, HRDD, Govt of Sikkim \*Pre-Primary Class is attached with all Govt Schools from Primary to Sr.Sec.Schools. As such these are not included in total.

Table IV shows the district-wise number of educational institutions in the State. East District has the highest number of educational institutions which is 546 as compared to 215 in the North district. There is 1 (one) JNV/KV each in all

the four districts. The maximum nos of Private Schools are located in the East District.

Table V: District-wise and category-wise Schools: - Government only, as on Sept 2005

Category of Schools	East	North	South	West	Total
<b>Primary</b>	146	60	142	151	<b>499</b>
<b>Upper Primary</b>	47	16	47	41	<b>151</b>
<b>Secondary</b>	30	11	28	23	<b>92</b>
<b>Senior Secondary</b>	19	03	09	10	<b>41</b>
<b>Total</b>	<b>242</b>	<b>90</b>	<b>226</b>	<b>225</b>	<b>783</b>

Source: Planning, Monitoring and Evaluation, HRDD, Govt of Sikkim

**NB:** Every category of Schools from JNS to SSS, except one school in South District viz. Govt Senior Secondary School, Namchi has Primary Sections attached to it.

As illustrated on Table V, there are seven hundred & thirty three (783) Government Schools in Sikkim.

There are five kinds of schools that serve as the school going population at the School level.

- Lower Primary Schools from Class I to III
- Primary Schools from Class I to V
- Junior High Schools from Class I to VIII
- Secondary Schools from Class I to IX
- Senior Secondary Schools from Class I to XII

Table VI: District Wise Enrolment in Government Schools, as on Sept 2005

District	Enrolment in Government Schools			Total
	I - V	VI - VIII	IX - XII	
East	29266	12023	7583	48872
North	5496	1721	986	8203
South	20501	6672	3477	30650
West	20138	6539	3214	29891
<b>State</b>	<b>75401</b>	<b>26955</b>	<b>15260</b>	<b>117616</b>

Source: Planning, Monitoring and Evaluation, HRDD, Govt of Sikkim

Table VI reveals low enrolment of students in the North District as compared to East, South & West District, which may perhaps be attributed to parameters such as number of schools, population in the district, etc.

The Government offers various subsidies to make education as accessible as possible, especially for the poorer sections of the society, which are as follows:

- Free textbooks (Pre-Primary/I to Class XII) and free tuition; free exercise books (Pre-Primary/I to Class XII).
- Free uniforms from Pre-Primary to Class V.
- No tuition fees from Pre-Primary to Class XII.
- Mid-day meal from Pre-Primary to Class V.

Table VII: District /Category-wise Teacher Position in Primary & Upper Primary Sections (2005).

Sl. No.	District	Teachers Position						
		Primary				Upper Primary		
		Govt	Private	Monastic	Total	Govt	Private	Total
1	North	308	66	48	<b>422</b>	115	14	<b>129</b>
2	South	1109	304	30	<b>1443</b>	314	85	<b>399</b>
3	East	1676	535	48	<b>2259</b>	735	326	<b>1061</b>
4	West	1018	216	33	<b>1267</b>	312	19	331
5	<b>State</b>	<b>4111</b>	<b>1121</b>	<b>159</b>	<b>5391</b>	<b>1476</b>	<b>444</b>	<b>1920</b>

Source: District Annual Plan (2005-06)

Table VII shows that the East District has the highest number of Teachers (2259 & 1061) appointed at the Primary & Upper Primary levels' respectively, whereas the North District records the lowest.

Table VIII: District-wise Teacher Pupil Ratio (TPR) at Government Senior Secondary Schools (2005)

Sl. No.	District	Enrolment	Nos of Teachers	TPR
1	East	3247	209	1:16
2	North	378	23	1:16
3	South	1235	106	1:12
4	West	1241	97	1:13
5	<b>State</b>	<b>6101</b>	<b>435</b>	<b>1:14</b>

Source: Planning Monitoring & Evaluation, HRDD, Govt of Sikkim.

The Table above shows that East District has the highest student enrolment at Senior Secondary level with a Teacher Pupil Ratio of 1:16. The North district has an average of 12 students for 1 teacher at the Senior Secondary level.



Table IX: District-wise Teacher Position in Secondary &amp; Senior Secondary level in Government Schools.

Sl No.	District	Teachers Position (2005)		
		Secondary	Senior Secondary	Total
1	North	61	23	84
2	South	278	106	384
3	East	418	209	627
4	West	215	97	312
<b>5</b>	<b>State</b>	<b>972</b>	<b>435</b>	<b>1407</b>

Source: Planning Monitoring &amp; Evaluation, HRDD

As maybe seen at the above table, North District has the lowest number of Teachers in the Secondary level as well as Senior Secondary level of Government Schools.

Table X: Number of Teachers: Trained &amp; Untrained (as on Sept 2006)

Sl no	DESIGNATION	TRAINED			UNTRAINED			Total nos of teachers		
		M	F	T	M	F	T	M	F	T
1	Primary	1776	1415	3191	702	643	1345	2478	2058	4536
2	Graduate	430	257	687	775	449	1224	1205	107	1911
3	Post Graduate	117	57	174	171	95	266	288	152	440
4	School In-Charge	380	15	395	43	3	46	423	18	441
5	Principal	22	13	35	2	2	4	24	15	39
6	Computer Teacher	0	0	0	0	0	0	0	0	0
7	<b>Total</b>	<b>2884</b>	<b>1776</b>	<b>4660</b>	<b>1736</b>	<b>1203</b>	<b>2939</b>	<b>4620</b>	<b>2979</b>	<b>7599</b>

Source: PME, SIE/ DIET, HRDD, Govt of Sikkim

It is seen that, 61.32% of the total nos of 7599 teachers are trained. 64.42% out of the total nos of 4620 male teachers and 59.62% out of the total nos of 2979 female teachers have been trained.

## CHAPTER IV

Vocational education is one of the most important aspects of education that man needs to become self-reliant and self dependant in today's competitive and developing world of information and technology. "Our education should be technology based and practical" – *Kothari Commission, 1964-66*. Keeping in view of the above & National Policy on Education, 1986; the Vocational Education Programme in Sikkim was initiated and introduced at the +2 level from the Academic Session, 2004 in the 40 Govt Senior Secondary Schools in Sikkim: -

### **OBJECTIVES**

---

⊕ In the state of Sikkim, the importance of Vocational Education and Training (VET) has increased manifold as avenues to the Government jobs have reached saturation situation. The professional training and vocational education in the schools would give children the skills which will help them find 'Self-Employment'.

⊕ Sikkim lacks in Organized Sector. Emphasis on "Unorganized Sector" is clearly required. VET will reduce the mismatch between demand and supply of skilled manpower and will provide an alternative to those pursuing higher education without any definite purpose.

⊕ To fulfil the State's goals of development with special emphasis on self reliance mission and the removal of unemployment and destitution with maximum focus on rural areas and semi-urban areas. To impart education relevant to productivity, economic development and individual prosperity.

⊕ To make the local youth of the State skilled and efficient and transform Sikkim into a productive society.

⊕ To meet the needs of skilled and middle level manpower for the growing sectors of economy, both organised and unorganised.

⊕ It will help the students to find appropriate place in the world of Work and Education.

⊕ It will develop positive attitudes, knowledge skills for entrepreneurship and self-employment. It will help the students to find appropriate place in the world of 'Work and Education'.

⊕ Vocational education provides us the opportunity to help revive the bond of volunteerism that used to traditionally characterize Sikkimese society. It has been widely felt that there is ample space for NGOs to work in the area of development in Sikkim. There is a consensus that the way forward is to encourage private participation in many of our Programmes.

⊕ To attract a sizeable segment of population to varied vocational courses so as to reduce the aimless rush to general education.

⊕ To prepare students for gainful employment.

⊕ New Vocational courses identified and implemented may provide local resources in the state.

# Progress Report

The process of implementation of vocational education at classrooms of 40 Govt Senior Secondary Schools in Sikkim began with the following vocational courses/trades (2trades in each school) introduced in the concerned Schools: -

1. Medicinal & Aromatic Plants
2. Floriculture
3. Management of Adventure Sports & Tourism
4. Local Handicraft
5. Beekeeping
6. Dairying
7. Poultry Production Technology
8. Mushroom Farming
9. Office Management
10. Automobile Repair Technology
11. Computer Hardware Maintenance
12. Catering & Hotel Management
13. Photography & Videography
14. Clock & Watch Repair Technology
15. PCO & Internet Cafe Management

The vocational courses, mentioned above were introduced only as additional subjects.

⊙ However, based on the discussion between Officers of HRDD, Govt of Sikkim & Pandit Sunderlal Sharma Central Institute of Vocational Education (PSSCIVE), Bhopal and recommendation of the Resource Persons of PSSCIVE, Bhopal- who visited Gangtok during the month of September, 2004; the Department sought approval of the State Government for introducing the vocational courses as distinct Vocational Streams instead of additional subjects. This was done because distinct Vocational Streams are more effective for providing students with better avenues and opportunities for Self-Employment and Vertical Mobility and also fulfilled the norms under CBSE Scheme of Studies.

⊙ Till date, the following Vocational Streams /Trades have been officially approved vide Letter No. D (A)/PA/2004 dated 7:10:2004 & Examinations and Certification are being governed by CBSE, New Delhi. They are as follows: -

- [i] Horticulture
- [ii] Dairying
- [iii] Automobile Technology
- [iv]
- [v]

- [iv] I T Application
- [v] Travel & Tourism Management
- [vi] Hotel Management & Catering Technology
- [vii] Office Secretaryship
- [viii] Poultry Farming
- [ix] Local Handicraft as additional subject only

● The PSSCIVE framed Syllabus & Course Curricula for Poultry Farming was updated, developed and finalized by a Committee at the CBSE Shiksha Sadan, New Delhi, comprising of Officers from Vocational Section, HRDD, Govt of Sikkim, CBSE, New Delhi and PSSCIVE, Bhopal.

● The Department has also requested CBSE, New Delhi for introduction of one more vocational stream i.e.

- [i] Photography & Videography

The Syllabus & Course Curriculum (framed by PSSCIVE, Bhopal) have already been submitted and placed before the Course Curriculum Committee of CBSE, New Delhi for the required approval.

● List of elective subject & other relevant details of vocational streams offered at various Govt SS Schools in Sikkim maybe seen at Annexure I of Appendix.

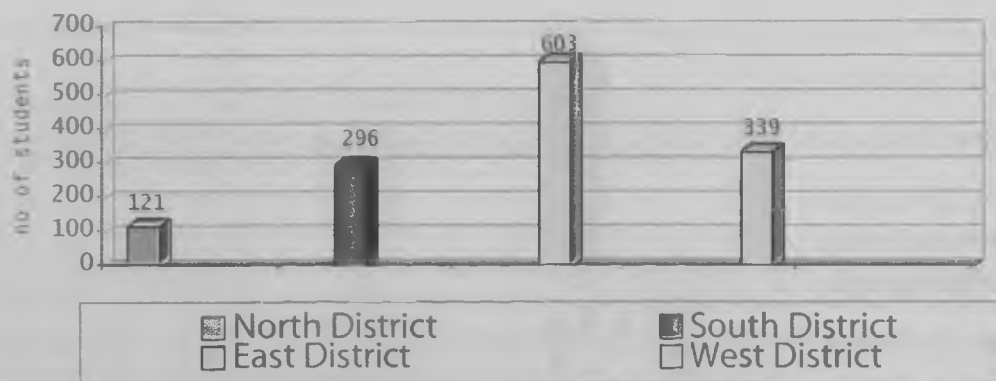
● The 40 Government Senior Secondary Schools in Sikkim have been offering distinct Vocational Streams/Additional Subjects at +2level. Distinct Vocational Streams are run concurrently alongside other known Academic Streams viz. Pure Science, Bio-Science, Arts and Commerce. Each Vocational Stream is also comprised of Three Electives. Brief information on Theory/Practical weight-age under various vocational streams/trades maybe seen at Annexure II of Appendix.

Table XI: District-wise enrolment of students opting vocational education at +2level in 40 SS Schools in Sikkim (as on September, 2005)

District	no of sr. sec. schools	District-wise enrolment of vocational students in 2005		
		XI	XII	Total XI+XII
North	03	57	64	121
South	08	122	174	296
East	19	368	235	603
West	10	200	139	339
State	40	747	612	1359

It is clearly evident from Table XI, that there has been an increase in enrolment in Class XI from 612 to 747.

Chart I- District-wise number of voc stream students in Sikkim (as on September, 2005)



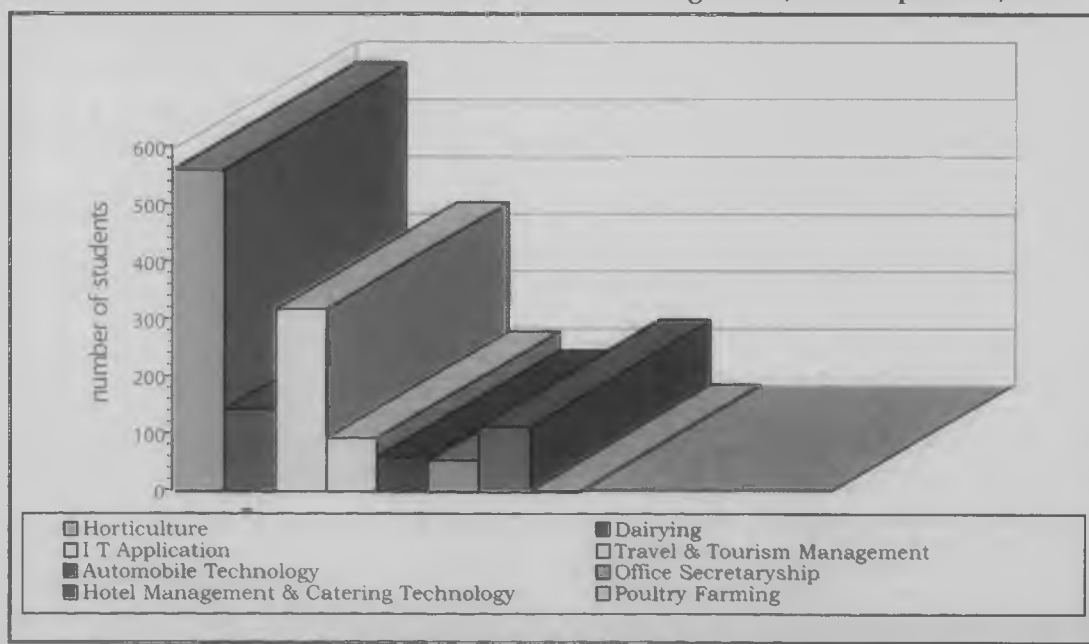
The above diagram indicates that enrolment of students under the VE Programme is highest in the East District, which has a total of 19 Govt SS Schools and lowest in the North District, that has 3 Govt SS Schools.

Table XII: Voc Stream-wise enrolment at Class XI & XII of 40 SS Schools, as on September, 2005

Vocational Stream	Nos of SS Schools	Nos of vocational stream students (Acad Year: 2005)		
		XI	XII	TOTAL
Horticulture	24	307	256	563
Dairying	09	70	76	146
IT Application	12	181	140	321
Travel & Tourism Management	03	70	25	95
Automobile Technology	04	27	34	61
Hotel Management & Catering Technology	04	64	50	114
Office Secretaryship	02	25	31	56
Poultry Farming	02	03	--	3
	<b>TOTAL</b>	<b>747</b>	<b>612</b>	<b>1359</b>

Source: Vocational Section, Human Resource Development Department, Government of Sikkim

Chart II- Voc Stream-wise number of students under the VE Programme, as on September, 2005



It maybe seen from the above Table XI and Chart II that, till date; Horticulture has proven to be the most popular of vocational streams with 24 Senior Secondary Schools offering it at +2level. Closely behind it is the vocational stream of I T Application that is, at present, being offered at 12 Government Senior Secondary Schools under the VE Programme. Horticulture is comprised of the following electives viz. Vegetable Culture, Floriculture and Post Harvest Technology & Preservation. The total number of students enrolled under one Vocational Stream - Horticulture during the Academic year 2005 was 563.

Table XIII: District-wise percentage of students opting Vocational education in Secondary & Senior Secondary level in 40 Government Schools.

Sl No.	District	Academic Year: 2005		
		Total Enrolment in XI & XII	Total nos of voc edn students in XI & XII	Percentage of voc edn students
1	East	3247	603	18.57%
2	North	378	121	32.01%
3	South	1235	296	23.97%
4	West	1241	339	27.31%
5	State	6101	1359	22.27%

Source: Vocational Section & Planning Monitoring & Evaluation, HRDD

Table XIII reveals that 22.27% of the total nos of students studying in Class XI & XII have opted vocational education in 40 Govt SS Schools in Sikkim.

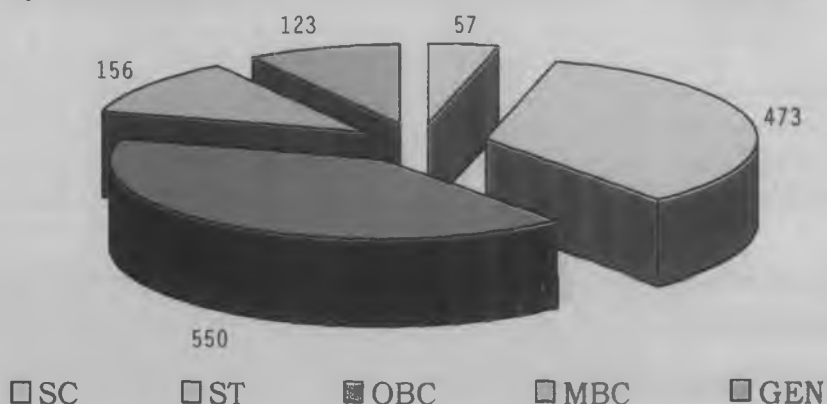
Table XIV: Gender-wise Percentage of vocational students at the senior secondary level in 40 Govt SS Schools under the VE Programme in 2005

Total enrolment in XI & XII			Vocational edn students			Percentage of diversion to vocational education		
Boys	Girls	Total	Girls	Boys	Total	Boys	Girls	Total
3173	2928	6101	568	791	1359	24.9%	19.4%	22.27%

Sources: Vocational Section and PME Section, HRDD, Govt of Sikkim, Gangtok.

Table XIV reflects a diversion of 24.9% in boys and 19.4% in girls at the senior secondary stage of the 40 Govt SS Schools since the inception of the vocational education Programme in the state of Sikkim.

Chart III- Community-wise number of voc students of Class XI & XII as on September, 2005



The above Chart III shows that percentage of OBC students is more than any other community under the Vocational education Programme run by the Department.

Chart IV- Year-wise enrolment of voc stream students under VE Programme as on September, 2005

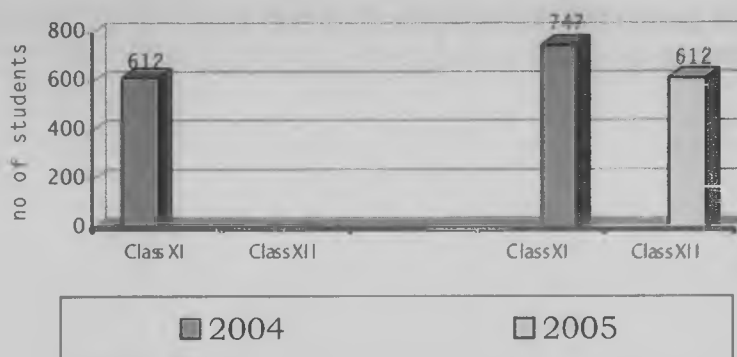




Table XV: District-wise Class XII results of students of Vocational Stream from 40 Govt SS Schools in the +2CBSE Examinations held on March, 2006.

**CLASS XII RESULTS of VOCATIONAL STREAM STUDENTS**

Sl no	District	Appeared	Pass	Comp	Pass %
1	EAST	234	188	39	<b>81.34</b>
2	SOUTH	150	133	17	<b>88.6</b>
3	NORTH	62	45	16	<b>72.58</b>
4	WEST	111	87	23	<b>78.38</b>
5	<b>STATE</b>	557	453	95	<b>81.32</b>

Source: Vocational Section, HRDD, Govt of Sikkim, Gangtok

From a total of 2976 numbers of students who appeared in March, 2006 AISSSC (CBSE) Examinations, 557 of them were vocational stream students. The pass % of vocational stream students is recorded as 81.32% out of which, 68 candidates secured 70% and above marks. 17.05% of the vocational stream candidates were required to sit for compartmental exams.

Table XVI: District-wise performance of students of Academic and Vocational Stream of 40 Govt SS Schools in Class XII CBSE Examinations held on March, 2006.

District	Nos of Govt SS Schools	Vocational				Total in all streams			
		APP	PASS	COMP	Pass %	APP	PASS	COMP	Pass %
EAST	19	234	188	39	81.34	1696	1373	227	80.95
SOUTH	8	150	133	17	88.6	568	456	81	80.28
NORTH	3	62	45	16	72.58	170	120	37	70.59
WEST	10	111	87	23	78.38	542	377	108	69.56
<b>STATE</b>	40	557	453	95	<b>81.32</b>	2976	2326	453	<b>78.15</b>

APP: Appeared      PASS: Passed      COMP: Compartment      Pass%: Pass percentage

Sources: Vocational Section and PME Section, HRDD, Govt of Sikkim, Gangtok.

The table above shows the district-wise performance of students of vocational streams and others in the Class XII CBSE Examinations held during March, 2006. From a total of 2976 numbers of students who appeared in March, 2006 AISSSC (CBSE) Examinations, 557 of them were vocational stream students. The success rate of vocational students is 81.32% as compared to the overall success rate of 78.15% for students of all streams viz. Science, Commerce, Arts & Vocational Streams.

## CHAPTER V

### FINANCIAL IMPLICATION

Ⓒ The Vocational education Programme at +2 level in Sikkim is run on sharing basis between the Central Government and the State Government. The Recurring and Non-Recurring Grants are approved and sanctioned for the First Year of Implementation of VE Programme in the state.

Ⓒ From Second Year onwards, only Recurring Grant is being approved by Ministry of Human Resource Development, Government of India, New Delhi.

#### III) For the First Year of the VE Programme i.e. Academic Year; 2004

As approved by Ministry of Human Resource Development, Department of Secondary & Higher Education, Government of India, New Delhi: -

☐ Central Share = Rs. 409.53 lakhs

☐ State Share = Rs. 95.94 lakhs

☐ Total = Rs. 505.47 lakhs

Table XVII: MHRD, Govt of India approved item-wise expenditure for the 1<sup>st</sup> Year of VE Programme

Sl no.	ITEMS	Amount Approved	
		Central Share (Rupees in Lakhs)	State Share (Rupees in Lakhs)
1.	Salary		
[i]	Management Level		
	a) Directorate level (50:50)	5.75	5.75
	b) District level (50:50)	19.94	19.94
[ii]	School level (75:25)	210.40	70.13
	Total Salary	236.09	95.82
2.	Cost of Worksheds	80.00	≈
3.	Procurement of equipment	80.00	≈
4.	Curriculum Development	1.80	≈
5.	Instrumental Material	2.10	≈
6.	Textbook Development	4.17	≈
7.	Instructional Material	0.06	≈
8.	Orientation of Resource Persons	0.24	≈
9.	Training of teachers	1.35	≈
10.	District Survey	1.20	≈
11.	Raw Materials	2.40	≈
12.	Field Visit, OJT(50:50)	0.12	0.12
	<b>TOTAL</b>	<b>409.53</b>	<b>95.94</b>

Table XVIII: Year-wise Expenditures for the 1<sup>st</sup> Year i.e. 2004-05 under the VE Programme in Sikkim.

Details of expenditures in respect of 1 <sup>st</sup> Year (i.e. Year 2004-05) of the VE Programme in 40 Sr Sec Schools of Sikkim				
<b>Academic Year: 2004: -1<sup>st</sup> Year</b>				
YEAR	Amount released by MHRD, Govt of India (Rupees in lakhs)	Amount released by the State (Rupees in lakhs)	Expenditures Incurred (Rupees in lakhs)	Remarks
2002-03	291.48	----	Nil	MHRD allowed the Dept to carry forward the unspent amount to be utilized in 2004 vide letter No.F.1-9/2001-VEII/ TS.VIII dated 02:01:04
2003-04(feb-mar)	----	1.30	31.84	
2004-05	----	7.72	365.04	
2005-06	118.05	40	80*	Rs. 40 lakhs, as part of State Share for the 1 <sup>st</sup> year of VE Programme was released in June, 2005
<b>Total</b>	409.53	49.02**	476.88	

Source: Annual Plan: 2005-06

\* Rs 80 lakhs: Construction of Worksheds in 40 SS Schools under the VE Programme.

\*\* As only Rs. 49.02 lakhs was released by the State, hence there is a Backlog of State Share in respect of the 1<sup>st</sup> Year of VE Programme.

☉ Utilization Certificate for Rs. 409.53 lakhs, furnished by Human Resource Development Department, Government of Sikkim and already submitted at Ministry of Human Resource Development, Government of India, New Delhi is enclosed at Annexure III of Appendix.

☉ After the submission of the abovementioned Utilization Certificate at Ministry of Human Resource Development, Government of India, New Delhi, the process for consideration of Annual Plan: 2005-06 for the 2<sup>nd</sup> Year of VE Programme could be initiated by the Department of Human Resource Development, Government of Sikkim.

### **III For the Second Year of the VE Programme i.e. Academic Year: 2005**

As approved by Ministry of Human Resource Development, Department of Secondary & Higher Education, Government of India, New Delhi: -

- ☐ Central Share = Rs. 336.06 lakhs
- ☐ State Share = Rs. 110.33 lakhs
- ☐ Total = Rs. 446.39 lakhs

Table XIX: Details of approved item-wise expenditure as approved by MHRD, Government of India for the 2<sup>nd</sup> Year i.e. 2005-06 VE Programme in Sikkim

Sl.No	Intervention of Expenditure & Sharing Pattern (Central: State)	Central Share (Rupees in Lakhs)	State Share (Rupees in Lakhs)	Total (Rupees in Lakhs)
1	[a] School level Salaries (75:25)	213.07	71.03	284.10
	[b] District level Salaries (50:50)	6.00	6.00	12.00
	[c] State level Salaries (50:50)	20.50	20.50	41.00
		239.57	97.53	337.1
2	Instructional Material (100% Central Share)	14.00	0	14.00
3	Training of Teachers (100% Central Share)	21.05	0	21.05
4	Orientation Programmes (100% Central Share)	4.40	0	4.4
5	Monitoring & Supervision (100% Central Share)	44.24	0	44.24
6	Raw Materials (50:50)	12.00	12.00	24.00
7	Field Visit (50:50)	0.80	0.80	1.60
	<b>TOTAL</b>	<b>336.06</b>	<b>110.33</b>	<b>446.39</b>

As shown at Table XIX above, MHRD, Government of India approved Rs. 336.06 lakhs as Central Share and Rs. 110.33 lakhs as the State Share in respect of the 2<sup>nd</sup> Year of the VE Programme in Sikkim i.e. Year 2005-06.

Table XX Year-wise Expenditures for the 2<sup>nd</sup> Year i.e. 2005-06 under the VE Programme in Sikkim

Details of expenditures in respect of 2 <sup>nd</sup> Year (i.e. Year 2005-06) of the VE Programme in 40 Sr Sec Schools of Sikkim				
Academic Year: 2005: -2 <sup>nd</sup> Year				
YEAR	Amount released by MHRD, Govt of India (Rupees in lakhs)	Amount released by the State (Rupees in lakhs)	Total (Rupees in lakhs)	Remarks
2005-06	242	63.72	305.72	All the amounts mentioned are only for the 2 <sup>nd</sup> Year of the VE Programme.
2006-07	94	---	94	
<b>Total amount released*</b> (Rupees in lakhs)	336	63.72	399.72	<b>Central Share= Rs. 301.32 lakhs</b>
<b>unspent balance, if any**</b>	34.68	Nil	34.68	<b>State Share= Rs.63.72 lakhs.</b>
<b>Total Expenditures incurred*</b> (Rupees in lakhs)	301.32	63.72	365.04	UC at Annexure III of Appendix

Source: (Annual Plan: 2006-07)

NB Rs. 242 lakhs & Rs. 94 lakhs received from the MHRD, Govt of India vide letter No.F.1-9/2001-VEII/ TS.VIII dated 22:02:2006 & 24:04:2006.

\*\*For carrying forward the unspent balance of Rs.34.68 lakhs in respect of the Programme's third Acad year: 2006, which the MHRD has approved vide its letter No F.1-9/2001-VEII/ TS.VIII dated 15:11:2006.

## CHAPTER VI

### Programmes and Activities

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#### [A] Highlights of the Programme

- ☉ All the 612 students of the first Batch of Vocational Education students (Academic year- 2004) were successfully promoted from Class XI to XII.
- ☉ The enrolment of Vocational Education students in Class XI of the Year 2005 was 747.
- ☉ All the 747 students of Class XI of Academic year 2005 enrolled under various vocational trades in the 40 Govt Senior Secondary Schools have been promoted to Class XII of Academic Year 2006.
- ☉ All Examination matters in respect of vocational education streams are dealt by the Examination Section, HRDD. Examination and certification of Vocational streams are governed by the Central Board of Secondary Education, New Delhi.
- ☉ The first batch of vocational education students i.e. 612 students, under the ongoing VE at +2stage Programme appeared in +2CBSE Exams conducted during March, 2006.
- ☉ Each vocational stream consists of three electives that offer relevant and logical emphasis on Practical in addition of normal Theoretical education and are run as per the norms of CBSE Scheme of Studies. Brief information on conduct of Practical classes of various vocational streams may be seen at Annexure IV of Appendix.
- ☉ 321 Teaching and Non-Teaching personnel appointed under the Vocational Education Programme.

#### [B] Various activities undertaken during 2004-05 and 2005-06 are as follows: -

- ☉ During January 2005, visit to Chandigarh, which also has its own Vocational Education Programme; was made by Senior Officers of Vocational Section, HRDD for the purpose of studying different modules under Vocational

education. Chandigarh's track record on vocational education considered as impressive; was the main reason for such exposure visit.

② Visits to the concerned Schools were made regularly by Officers of Vocational Section. Meetings with Heads of Schools were also conducted regularly.

③ **“Orientation Programmes”** for Vocational Education Teachers of all the 40 Senior Secondary Schools are at present being conducted on yearly basis and two such programmes for the Academic years: 2004 and 2005 have already been conducted by Experts from Pandit Sunderlal Sharma Central Institute of Vocational Educational, PSSCIVE (NCERT), Bhopal –an autonomous organisation under Government of India in the field of vocational education in India. The Programmes are organised by the PSSCIVE (NCERT) in collaboration with the Vocational Section, HRD Department, Gangtok.

I. The first Training-cum- Workshop for Curriculum Development Programme was conducted during **14<sup>th</sup> -19<sup>th</sup> September, 2004** at Karfector, S.Sikkim participated by 40 nos of VE Teachers of the South & West District and at Gangtok which was participated by 40 nos of VE Teachers of East & North District.

The Resource Persons' from PSSCIVE (NCERT), Bhopal for the Programme were **Prof S.Z. Vaid**, Joint Director and **Dr A.K. Sacheti**, Head, Agriculture Division, who is a renowned and acclaimed figure for his contribution in the field of vocational education in India.

II. The second PSSCIVE (NCERT) conducted Training Programme was held at the Conference Hall of the HRD Dept, Govt of Sikkim, Gangtok from **26<sup>th</sup> - 29<sup>th</sup> September, 2005**. Based on the subject Skill Training & Skill Certification the programme was participated by from Govt Senior Secondary Schools in Sikkim was conducted at Gangtok from **26<sup>th</sup> - 29<sup>th</sup> September, 2005** by **Prof Sachchidananda Ray & Dr (Mrs) Mridula**, senior faculties from PSSCIVE (NCERT), Bhopal

⊙ Vertical Mobility of Vocational students has also been considered and students have the options of Apprenticeship Training as per Apprentices Act or pursuing higher education. North Bengal University responded positively to our request for Vertical Mobility of Vocational students at colleges under NBU after passing +2 CBSE Exams. They have also provided us a list of wide ranging Career Oriented Programmes that may be pursued and availed by our students. The Department has also requested North Eastern Regional Institute for Science & Technology (*NERIST*), Nirjuli, Arunachal Pradesh for provision of state quotas for our voc students for further education after passing +2 CBSE. The Department has also requested the concerned Authorities of Allahabad Agricultural University (Deemed University), Allahabad for admission of +2 vocational stream pass-outs, who may like to pursue degree courses related with their respective streams in the said Institution.

⊙ Efforts are being made by the Department of HRD, Govt of Sikkim for Scholarship(s) and reservation quotas (seats) of vocational stream students after passing +2 CBSE Examinations. The Department has already requested the Delhi University for seats related with their vocational trades in respect of higher education for vocational stream students after passing +2 Examinations.

⊙ “On the Job Training (OJT)”- which is an integral component of vocational education curriculum and the CBSE Scheme of Studies was arranged and conducted for our students in collaboration with various private and government establishments viz. Departments of Agriculture/Horticulture/Animal Husbandry/Transport/Info. Technology, ICAR, Sikkim-milk, TAAS, Hotels such as Royal Plaza, Chumbi Residency, Tibet, Tashi Delek, etc, LIC and others. On the Job Training of Voc Stream students were conducted at more than 50 Training Centres, located all over Sikkim during December, 2005. “OJT” serves to acquaint the students on the actual Working environment. These also help the students to transform their classroom knowledge at real work environment. Relevant details in respect of the aforementioned OJT Training Centres are mentioned at Annexure V of Appendix.

☉ “On the Job Training” of vocational students took place during the month of December, 2005, soon after the completion of the Annual Examinations of Class XII. ‘On the Job Training’ Programme for a duration of One Month Period, made possible with due and thankful assistance and cooperation extended by several Government/Commercial Institutions on our request. In fact, Class XII students of vocational stream- I T Application of Mangalbaria Senior Secondary School, West Sikkim have setup a website named gssmangalbaria.com that provides basic information such as School’s location, names of teachers, etc, as part of the report after completing their requisite On the Job Training held during the end of the Year 2005. A printed page of the website may be seen at Annexure VI of Appendix.

☉ The State Council of Vocational Education (SCVE) of Sikkim has also been constituted. The Secretary, Human Res. Dev. Dept, Govt of Sikkim is the President and the Additional Director, HRDD, Govt of Sikkim is the Member Secretary of the State Council of Vocational Education, Sikkim. SCVE, Sikkim had been constituted in the state, similar to JCVE, India on the national level. The First General Body Meeting of SCVE, Sikkim was conducted at Conference Hall, HRDD, Govt of Sikkim, Gangtok on 15<sup>th</sup> April, 2006. Relevant details on SCVE and the 1<sup>st</sup> General Body Meeting of State Council of Vocational Education, Sikkim, at Annexure VII of Appendix.

☉ With the intention to evaluate students in proper systematic & scientific manner as per the guidelines of the CBSE, the Department conducted **One-day Orientation Programme** for **Internal/External Examiners** before the Practical examinations of **+2 CBSE Exams of March, 2006** in respect of vocational education. Report on the same maybe seen at Annexure VIII of Appendix.

☉ The first batch of students opting vocational streams who appeared in the Class XII CBSE Examinations on March, 2006 was 557.

The performance of vocational stream students of the first batch under the VE Programme on the +2 CBSE Examinations held on March, 2006 has been commendable; recording a success rate of 81.32% with 453 candidates passing out of the total nos of 557 vocational stream candidates appeared. The total



number of students who secured above 70% aggregate was 68. 235 nos of candidates secured first division. 17.06% students were required to sit for compartmental exams.

Sapna Pradhan of Soreng SS School, West Sikkim secured the highest percentage of 81% in voc stream I T Application. Dilkumar Subba of Assam Lingzey SS School and Samuel Limboo of West Point SS School, East Sikkim scored the second highest with 80.5% in Horticulture & I T Application streams' respectively. Brief data on the performance of vocational stream students is mentioned at Annexure IX of Appendix.

© For the purpose of enabling the vocational stream pass-outs to undergo **one year apprenticeship training**, there has been continuous correspondence, interaction and coordination from the HRD Dept, Govt of Sikkim with the Board of Practical Training, Eastern Region, MHRD, GoI, Kolkata and various other Departments/PSUs under Govt of Sikkim.

A High-Level Meeting of **Heads of 15 Deptts/PSUs under Govt of Sikkim** with dignitaries from BOPT(ER), MHRD, Kolkata was held on **19<sup>th</sup> October, 2006** at the Tashiling Conference Hall, Secretariate, Gangtok, chaired by Shri T.T. Dorji, Addl Chief Secretary-cum-Principal Secretary, Finance, Rev & Exp Dept, Govt of Sikkim.

State-wide apprenticeship training at various Depts/PSUs in Sikkim was launched for the first time ever in the state of Sikkim with effect from **1<sup>st</sup> December, 2006** for the first batch of +2 voc stream pass-out students of the year 2006.

© During the "Janata Mela" held at the Guards Ground on the 4<sup>th</sup> Oct, 2005; a separate stall for Vocational Education was arranged which provided opportunities for Voc students to display equipments & products of their respective Voc. Streams. Similarly, Vocational Education was also featured at the respective "Janata Melas" of the remaining three districts of the State viz. North, South & West District. Janata Melas provided a wonderful opportunity to our voc stream

students to showcase their knowledge gained through vocational education and also to exhibit various products made by them. Exhibitions on vocational education were also conducted and it is hoped that in the future, we may be able to conduct the same on a bigger scale and reach a much wider audience.

⊗ For Job Opportunities of successful voc students after passing +2 Examinations; HRDD, Govt of Sikkim has pursued relevant avenues and communicated with all the various departments under Govt of Sikkim. These students would greatly help on bridging the wide gap of mismatch of demand and supply of skilled manpower. As Vocational Education emphasizes greatly on Practical Training, along with Theoretical Knowledge, of actual first hand experience of REAL WORK ENVIRONMENT, their competency and proficiency would no doubt help them find their rightful place in world of Work and Education. Extensive Practical Knowledge along with theoretical education is imparted under Vocational Education to our students. It has been the conviction of the Department following on the dreams of the Hon'ble Chief Minister of Sikkim to develop local resources & manpower so that our youth may have adequate and requisite skills for becoming self-reliant.

⊗ Modifications on recruitment rules with respect to Vocational Stream students after passing +2 Exams are being pursued with the State Government. The professional training and vocational education in the schools would give children the skills which will help them find 'Self-Employment'. The development of Skilled Manpower arising out of local resources by way of vocational education would be beneficial for the State.

⊗ The Department has also requested for reservation of six quota seats each at various colleges under Delhi University for degree level education of vocational stream pass-outs of each of the Vocational Streams under the Vocational Education Programme.

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[C] Other activities undertaken by the Department for other beneficiaries like drop-outs, etc:

⊙ The Vocational Wing of the Department has also been collaborating with various Government Agencies like "Sikkim Government Press" and "Department of Ecclesiastical Affairs" for training drop-outs in courses like "Printing technique" and "Image Making" respectively.

#### VOCATIONAL TRAINING IN "IMAGE MAKING" (started in 1987)

The said training in this course is imparted at the "Traditional Arts School", located at Syari, Gangtok. The students in this school are the primary drop-outs from remote tribal areas. There is only one Instructor in this Institution. The salary to the Instructor and stipend to the students are borne by the Department. This year i.e. 2004-2005 financial year, the salary of the Instructor has been revised from Rs.1600/- per month to Rs.5000/- per month in the wake of revision of wages for employees appointed under Muster Roll and Work Charge basis. This is an on-going scheme and annual feature sponsored by the Human Res Dev Department.

#### VOCATIONAL TRAINING IN "PRINTING TECHNIQUE" (Training is imparted from time to time)

This training in "Printing Technique" is given at the "Sikkim Government Press". In the past years we have had 3-4 batches of trainees in this course, of which 90% of the trainees successfully completed the course. The course restarted in 1999 with 10 students. They completed the training period of 2 years in January 2001. They were trained in all aspects of printing such as Hand Composition, Machine Handling, Bookbinding and Bookkeeping. All the students successfully completed the course. At present they have been placed at "Sikkim Government Press".

## [D] Appendage

© As avenues to Government jobs in the state of Sikkim have reached the saturation situation, the Department has resolutely seen that our students achieve quality vocational education which may lead them towards Self Employment as vocational education curriculum also provide Entrepreneurship skills to students.

© Vocational Education will reduce the mismatch between demand and supply of skilled manpower and will provide an alternative to those pursuing higher education without definite purpose. Practical knowledge of relevant work environment signifies the importance of vocational education that may make our youths become self-dependant and able to achieve that Bread and Butter aim and thereby lead towards self-reliance.

© The students, as well as the society, are to be guided gradually, keeping in mind the psyche of common man that invariably thinks that merely acquiring educational certificate would help him/her get employment and have a means for earning. The certificate unfortunately in this age does not necessarily guarantee one's bread & butter. The societal attitude needs to be evolved step by step.

© It is hoped that apprenticeship training of one Year for successful pass-outs of +2CBSE in vocational streams may play a vital role towards development of skills and capacity building that may transform Sikkim into productive society.

© From the total nos of 560 nos of vocational pass-outs, 322 nos of them applied for undergoing apprenticeship training and 147, as on 31<sup>st</sup> December, 2006; have already been registered by the BOPT(ER), MHRD, GoI, Kolkata till now. These pass-outs are presently engaged as technician (vocational) apprentices at various Departments/PSUs under Govt of Sikkim. 116 pass-outs are pursuing higher level education at various institutes in Sikkim & outside the state.

Two (2) of the Horticulture stream pass-outs viz Phulkumari and Gom Bahadur Biswakarma have already found employment as Master Trainer under the organic farming project in the state. Many of the pass-outs of Travels &

the organic farming project in the state. Many of the pass-outs of Travels & Tourism Management stream pass-outs are employed as Asst Manager at local Tours & Travels Agencies in the State. At least 3 nos of Self Help Groups (each consisting of 10-12 student pass-outs) been formed and presently in developmental stage and learning various aspects to establish themselves as Entrepreneurs in the state.

⊙ Although the above instances of development of employable youths who are equipped with practical skills and knowledge imparted by the vocational education and training may seem miniscule and negligible at the moment, it is nonetheless felt that these small steps are precisely the stepping stones and the essential ingredients that may eventually have a resourceful and self-reliant society. A state with local skilled and semi skilled manpower can help the state to harness the ever-growing menace of unemployment of educated youths as the prospects and opportunities for employment in the Government Sector have almost reached the saturation situation.

⊙ Vocational education Teachers are provided Training by experts deputed from Pandit Sunderlal Sharma Central Institute of Vocational Education (PSSCIVE (NCERT)), Bhopal- apex body under Government of India for vocational education in India. This enhances the quality of vocational education imparted in the schools and also the need of self growth by analysis and constructive discourses.

⊙ Mindset change: it is important to have a wide and extensive media campaign on local TV, Print and electronic media for showcasing the advantages of Skill(s) development for the youth, the unemployed, the government and private concerns, business enterprises, etc..

⊙ New Programmes for further strengthening of Vocational education would be pursued by the Department so that greater number of beneficiaries may be targeted. The Department intends to give greater emphasis to popularize Vocational Education by way of organizing exhibitions, sale, fair, mela, fetes,

© Annually, PSSCIVE, Bhopal- an autonomous organisation under MHRD, Govt of India, felicitates awards on various categories in the field of vocational education after submission of appropriate nominations endorsed by Human Resource Development Department, Govt of Sikkim for Best Practices in respect of vocational education in the State. Along the same lines, the Department of Human Resource Development, Government of Sikkim is also considering of felicitating outstanding contributions made in respect of vocational education in Sikkim, so that we may be able to inspire and further encourage vocationalization of education. Emphasis will be given on guidance and counselling on various aspects of Vocational Education and Training to the people at large.

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# Glimpses of "Vocational Education at +2level" Programme in Sikkim

*Photographs on various features under the VE Programme in Sikkim*

DIRECTORATE OF SECONDARY, SR. SEC & VOCATIONAL EDUCATION



HUMAN RESOURCE DEVELOPMENT DEPARTMENT, GOVERNMENT OF SIKKIM



OJT of I T Application students of Class XII (Dec, 05) at CIC, Dept of Info Tech, Gangtok.



Students of Dairying Stream at Dairy Plant, Sikkim Milk Union during their OJT.



Class XII Automobile Technology Stream students (Dec, 05) at SNT, Jorethang.



Vocational students, faculties of Chakung SSSchool, W. Sikkim



(L to R) Class XII Hotel Management & Catering Technology Stream students during Dec, 05 at Hotel Chumbi Residency & at Hotel Sonam Palgey during their OJT.



Vocational stream students



Hee Yangthang SS School, West Sikkim (Dairying & Horticulture:- offered at +2 level)





"Floriculture" - one of the electives of vocational stream: Horticulture under VE Programme



Hotel Mgt & Catering Tech students: exhibiting their culinary skills]



[L to R] Equipments of Travel & Tourism Mgt Stream being shown to Hon'ble Minister, Transport.



Extreme Adventure- one of the areas that comes under Travel & Tourism Mgt



Excursion trekking: Travel & Tourism Management Stream students



Resource Person of Dept of AH, LF & VSc as well as voc student on the left conducting OJT of Dairying Stream students at Vet complex, Deoarli





Automobile technology stream students of Hee Yangthang SS School, West Sikkim



Tower Silo: voc stream students- Kanchenzonga Festival, prepared by Voc students



Vocational education stream students



Practical knowledge: Dairying stream students being shown relevant techniques and procedures.



Vocational education students and teachers of Chakung SS School



Inside a Green House: Voc stream Horticulture



Horticulture as distinct vocational stream at the +2 level has the highest student enrolment as compared to other vocational streams under the VE Programme



techniques to students



Demonstration of Dairying stream students at the Breeding Cell (Animal Husbandry Dept) at Deorali, Gangtok.



Practicals under Vocational education. Voc students of Teemi SS School, S.Sikkim getting in the act



Various modes of conduct of Practical classes under vocational education



Outdoor excursion: Horticulture Stream students of various Govt SS Schools at Model Floriculture Centre, Namli



During the visit of the Officers of Vocational Section, HRDD at Chandigarh in January, 2005

[L to R] Voc students of Government Model SS School, Chandigarh attending vocational classes under I T Application & workshop under Automobile Technology Stream.



Conduct of Practical Classes under Vocational education. Green House



OJT organised by Animal Husbandry Deptt in collaboration with the Vocational Section, HRDD, Gangtok during December, 2005.

JANATA MELA AT DISTRICTS



Students of Voc stream: Office Secretaryship of Namchi (G) SS School during the Janata Mela, 2005: South District, Namchi



Janata Mela, 2005: South District, Namchi



Hotel Mgt & Cat Tech students of Namchi (G) SS School at Janata Mela, South District, 2005



Vocational education students at Janata Mela, 2005 at Guards Ground, Tathangchen, Gangtok.

Workshop/Training of Vocational Teachers in 40 Govt SS Schools in Sikkim/Orientation Programmes conducted by PSSCIVE (NCERT), Bhopal

Pandit Sunderlal Sharma Central Institute of Vocational Education (PSSCIVE), NCERT – apex body for vocational education in India



Workshop for Curriculum Development cum Training of VE Teachers in Sikkim, 14<sup>th</sup> to 18<sup>th</sup> September, 2004

L to R: - Dr. D.P.S.Rana [Addl Director, HRDD]; Mr.M.K.Panicker [Director, HRDD]; Mr.D. T.Bhutia [Spl Secy, HRDD]; Dr.A.K. Sacheti & Prof. Vaid, Resource Persons PSSCIVE (NCERT), Bhopal



[L-R] DrAK Sacheti, PSSCIVE (NCERT) conducting the 2<sup>nd</sup> phase of workshop for curriculum development during 14<sup>th</sup> to 18<sup>th</sup> September at Conference Hall, HRDD, Gangtok. Prof.Vaid, Joint Director, PSSCIVE (NCERT)- an autonomous organisation under the Ministry of HRD.



Dr. Sacheti, noted personality in the field of vocational education in India, explaining major components under vocational education during the Programme





PSSCIVE conducted workshop for curriculum development- cum- Training, 2004 of VE Teachers Training in progress



The 2nd PSSCIVE (NCERT) conducted Training during 26<sup>th</sup> to 29<sup>th</sup> September, 2005



Resource Persons from PSSCIVE (NCERT), Bhopal: - Prof Sachchidananda Ray & Dr (Mrs) Mridula Saxena



Training of VE Teachers of 40 SS Schools in Sikkim (26<sup>th</sup> to 29<sup>th</sup> September, 2005)



Shri M.K. Panicker, Director, HRDD addressing the House



Dr (Mrs) Mridula, PSSCIVE (NCERT), Bhopal delivering a lecture during the Training Programme on Home Science based Vocational courses.



Resource Persons from PSSCIVE sharing a lighter moment with Dr. D.P.S.Rana, Addl Director (VE), HRDD, Govt of Sikkim



Shri D.R. Kharel, Special Secretary, HRDD, Govt of Sikkim, the Chief Guest during the valedictory function on 29<sup>th</sup> September, 2005, addressing the House.





Training of VE Teachers of Sikkim in progress (September, 2005 at Conference Hall, HRDD, Gangtok)



Shri D.R.Kharel (Special Secretary, HRDD) during the valedictory function of Training of VE Teachers held at Conference Hall of HRDD, Gangtok: - (2005)

**FIRST GENERAL BODY MEETING OF STATE COUNCIL OF VOCATIONAL EDUCATION, SIKKIM**

**M**

Venue: Conference Hall

date: 15<sup>th</sup> April, 2006



SCVE MEMBERS from R to L: Dr. D.P.S.Rana, **Member Secretary, SCVE**, Mr. M.K.Panicker, Member, SCVE, Mr. C.L.Denzongpa, **President, SCVE**, Sikkim, Dr. R. Muthuraj, **Member, SCVE** (PSSCIVE (NCERT), Bhopal) & Mr. S.P.Subba, **Member, SCVE** (Director, Dept of Commerce & Industry, Govt of Sikkim)



SCVE MEMBERS from R to L: Dr. D.P.S.Rana, Member Secretary, SCVE (Addl Director [VE], HRDD); Mr. M.K.Panicker, Director, HRDD; Mr. C.L.Denzongpa, President, SCVE (Secretary, HRDD); (Dep Dir, HQ, HRDD); Dr. R. Muthuraj, PSSCIVE (NCERT), Bhopal ; Mr. S.P.Subba, Director, Dept of Commerce & Industry, Mrs. Mamta Thapa, Jt Director, East, HRDD; Mr. G.B.Nirula, Jt Director, Exam/Scholarship, HRDD, Mr. A.B. Gurung, Jt Director, West, HRDD & Mr. M.P. Subba, Jt Director, South, HRDD.



Shri C.L. Denzongpa, IRS, Secretary, HRDD, President, SCVE addressing the House



Shri S.P. Subba, Director, Dept of Commerce & Industries, Member, SCVE, Sikkim; seated next to Dr.R. Muturaj, PSSCIVE (NCERT), Bhopal - making a point during the Open House discussion.



Resolutions being placed by Mr. M.K.Panicker, Director/HRDD during the 1<sup>st</sup> General Body Meeting of SCVE, Sikkim at HRDD's Conference Hall, Gangtok on 15<sup>th</sup> April, 2006.



Open House discussion during the General Body Meeting of SCVE, Sikkim at HRDD's Conference Hall on 15<sup>th</sup> April, 2006.



Resolutions being passed during the 1<sup>st</sup> General Body Meeting of SCVE, Sikkim at HRDD's Conference Hall on 15<sup>th</sup> April, 2006.

HIGH-LEVEL MEETING OF HEADS OF 15 DEPTS/PSUs UNDER GOVT OF SIKKIM WITH GOVT OF INDIA DIGNITARIES FOR "FACILITATION OF ONE YEAR APPRENTICESHIP TRAINING FOR FRESH +2 VOCATIONAL STREAM PASS-OUT STUDENTS OF 2006"

Venue: Tashiling Conference Room, Secretariate, Gangtok

date: 19<sup>th</sup> October, 2006

Chairperson: Addl Chief Secretary-cum-Principal Secretary, Fin, Rev & Exp Dept, Govt of Sikkim



Presentation of Status Report on HRDD's Vocational Education at +2 level Programme in Sikkim by Shri M.K. Panicker, Director (Sec, Sr Sec & Vocational Education, HRDD)



Power point presentation on the finer points on Apprenticeship Training by Shri S.M. Sundaram, Director, Board of Practical Training, Eastern Region, MHRD, Govt of India . Seated next to him - Smt Binita Rai, Dy Secy, representative Tourism Dept



Seated next to Shri T.T. Dorji, Additional Chief secretary to the Govt of Sikkim & Shri D. Dadul, Principal Secretary, Transport Dept is Shri K.P. Adhikari, IAS, Secretary, HRDD under whose leadership the launching of apprenticeship training in Sikkim was made possible for the first time ever in the state. The apprenticeship training for +2voc stream pass-outs was commenced from 1st December, 2006.



From L to R: At the Round Table- Shri S.M. Sundaram (Director, BOPTER, MHRD, GoI), Smt Binita Rai (Dy Secretary, Tourism Dept), Dr Pushpakala Rai (Principal/Trg & Ext, Dept of AH, LF & VScs), Shri K. Wangdi (Chief Gen Manager, STCS), Shri M.G. Kiran (Secretary, Dept of Information Technology & IPR Dept), Shri P.K. Dong (CEO, State Tourism Dev Corporation, Sikkim), Shri D. Dadul (Principal Secretary, Transport Dept).

**Three (3) Electives i.e. Subjects of the various Vocational Streams being run as distinct streams w.e.f. Feb, 2004 in 40 Sr. Sec. Schools in Sikkim**

**Horticulture**

- i. Vegetable Culture
- ii. Floriculture
- iii. Post Harvest Technology & Preservation

**Dairying**

- i. Milk & Milk Products
- ii. Milk Products, Transport, Milk Cooperatives
- iii. Dairy Plant Instrumentation

**I T Application**

- i. I T Systems
- ii. Business Data Processing
- iii. DTP, CAD & Multimedia

**Travel & Tourism Management**

- i. India- The Tourist destination
- ii. Travel Trade Management
- iii. Tourism Management & Manpower Planning

**Hotel Management & Catering Technology**

- i. Food Preparation II
- ii. Accommodation Service
- iii. Food & Beverage Service II

**Automobile Technology**

- i. Engineering Science
- ii. Auto Engineering
- iii. Auto Shop Repair & Practice

**Poultry Farming**

- i. Poultry Nutrition & Physiology
- ii. Poultry Products Technology
- iii. Poultry Diseases & their Control

**Office Secretaryship**

- i. Office Practice & Secretaryship
- ii. Secretarial Practice & Accounting
- iii. Office Communication

**Photography**

- i. Accessories & Controlled Methods of Printing
- ii. Indoor Photography
- iii. Colour Photography

List of names of Govt Senior Secondary Schools in Sikkim covered under the Vocational Education Programme.

Name of the Govt Senior Secondary School				
S No	EAST DISTRICT	WEST DISTRICT	NORTH DISTRICT	SOUTH DISTRICT
1	Assam Lingzey SS School	Buriakhop SS School	Hee Gyathang SS School	Bermiok Tokal SS School
2	Tikalal Niraula SS School, Central Pendam	Chakung SS School	Phodong SS School	Namchi (Girls) SS School
3	Chujachen SS School	Dentam SS School	Mangan SS School	Namchi (Co-Ed) SS School
4	Deorali (Girls) SS School	Gyalshing (Girls) SS School		Namthang SS School
5	Dikling SS School	Hee Yangthang SS School		Sadam SS School
6	Enchey SS School	Mangalbaria SS School		Teemi SS School
7	Khamdong SS School	Pelling SS School		VCGL SS School, Ravangla
8	Lingdok SS School	Soreng SS School		Yangang SS School
9	Mamring SS School	Tashiding SS School		
10	Beraspati Parsai SS School, Ranipool	Sombaria SS School		
11	Ranka SS School			
12	Samdong SS School			
13	Sang SS School			
14	Singtam SS School			
15	Tadong SS School			
16	Sir T N. SS (Boys) School			
17	West Point SS School			
18	Rhenock SS School			
19	Rumtek SS School			

NB: The only Govt SS school in the new Dibrang SS school, Sikkim does not offer vocational education at +2 level as suggested earlier.

The following trades of Vocational Streams/additional subjects have been introduced under the centrally sponsored scheme at +2 level in 40 Government Senior Secondary Schools of Sikkim w.e.f February, 2004.

Name of the Govt SS School	Vocational Stream	Vocational Stream	Addl subject
1. Assam Lingzey	<b>Horticulture</b>	<b>Poultry Farming</b>	
	i. Vegetable Culture	i. Poultry Nutrition & Physiology	
	ii. Floriculture	ii. Poultry Products Technology	
	iii. Post Harvest Tech. & Preservation	iii. Poultry diseases and their control	
2. Bermiok Tokal	<b>Horticulture</b>	<b>Dairying</b>	
	i. Vegetable Culture	i. Milk and Milk Products	
	ii. Floriculture	ii. Milk Prod., Transport & Milk Coops.	
	iii. Post Harvest Tech. & Preservation	iii. Dairy Plant Instrumentation	
3. Buriakhop	<b>Horticulture</b>	<b>Poultry Farming</b>	
	i. Vegetable Culture	i. Poultry Nutrition & Physiology	
	ii. Floriculture	ii. Poultry Products Technology	
	iii. Post Harvest Tech. & Preservation	iii. Poultry diseases and their control	
4. Central Pendam	<b>Horticulture</b>	<b>Dairying</b>	
	i. Vegetable Culture	i. Milk and Milk Products	
	ii. Floriculture	ii. Milk Prod., Transport & Milk Coops.	
	iii. Post Harvest Tech. & Preservation	iii. Dairy Plant Instrumentation	
5. Chakung	<b>Horticulture</b>	<b>Travel &amp; Tourism Management</b>	
	i. Vegetable Culture	i. India-The Tourist destination	
	ii. Floriculture	ii. Travel Trade Mgt.	
	iii. Post Harvest Tech. & Preservation	iii. Tourism Mgt & Manpower Planning	
6. Chujachen	<b>Horticulture</b>		
	i. Vegetable Culture		
	ii. Floriculture		
	iii. Post Harvest Tech. & Preservation		
7. Dentam	<b>Horticulture</b>	<b>Dairying</b>	
	i. Vegetable Culture	i. Milk and Milk Products	
	ii. Floriculture	ii. Milk Prod., Transport & Milk Coops.	
	iii. Post Harvest Tech. & Preservation	iii. Dairy Plant Instrumentation	
8. Deorali (Girls)	<b>Hotel Mgt &amp; Cat Technology</b>	<b>Office Secretaryship</b>	
	i. Food Preparation II	i. Office Practice & Secretaryship	
	ii. Accomodation Service	ii. Secretarial Practice & Accounting	
	iii. Food and Beverage Service II	iii. Office Communication	
9. Dikling	<b>Horticulture</b>	<b>Dairying</b>	
	i. Vegetable Culture	i. Milk and Milk Products	
	ii. Floriculture	ii. Milk Prod., Transport & Milk Coops.	
	iii. Post Harvest Tech. & Preservation	iii. Dairy Plant Instrumentation	
10. Enchey	<b>I T Application</b>		Local Handicrafts
	i. IT Systems		
	ii. Business Data Processing		
	iii. DTP, CAD and Multimedia		
11. Gyalshing (Girls)	<b>Horticulture</b>	<b>I T Application</b>	
	i. Vegetable Culture	i. IT Systems	
	ii. Floriculture	ii. Business Data Processing	
	iii. Post Harvest Tech. & Preservation	iii. DTP, CAD and Multimedia	



Name of the Govt SS School	Vocational Stream	Vocational Stream	Addl subject
12. Hee Yangthang	<b>Horticulture</b>	<b>Dairying</b>	
	i. Vegetable Culture	i. Milk and Milk Products	
	ii. Floriculture	ii. Milk Prod., Transport & Milk Coops.	
	iii. Post Harvest Tech. & Preservation	iii. Dairy Plant Instrumentation	
13. Hee Gyathang	<b>Horticulture</b>		Local Handicrafts
	i. Vegetable Culture		
	ii. Floriculture		
	iii. Post Harvest Tech. & Preservation		
14. Lingdok	<b>I T Application</b>	<b>Travel &amp; Tourism Management</b>	
	i. IT Systems	i. India-The Tourist destination	
	ii. Business Data Processing	ii. Travel Trade Mgt.	
	iii. DTP, CAD and Multimedia	iii. Tourism Mgt & Manpower Planning	
15. Mamring	<b>Horticulture</b>		
	i. Vegetable Culture		
	ii. Floriculture		
	iii. Post Harvest Tech. & Preservation		
16. Mangalbaria	<b>Horticulture</b>	<b>I T Application</b>	
	i. Vegetable Culture	i. IT Systems	
	ii. Floriculture	ii. Business Data Processing	
	iii. Post Harvest Tech. & Preservation	iii. DTP, CAD and Multimedia	
17. Mangan	<b>Hotel Mgt &amp; Cat Technology</b>	<b>I T Application</b>	
	i. Food Preparation II	i. IT Systems	
	ii. Accommodation Service	ii. Business Data Processing	
	iii. Food and Beverage Service II	iii. DTP, CAD and Multimedia	
18. Namchi (Co-Ed)	<b>Horticulture</b>		
	i. Vegetable Culture		
	ii. Floriculture		
	iii. Post Harvest Tech. & Preservation		
19. Namchi (Girls)	<b>Hotel Mgt &amp; Cat Technology</b>	<b>Office Secretaryship</b>	
	i. Food Preparation II	i. Office Practice & Secretaryship	
	ii. Accommodation Service	ii. Secretarial Practice & Accounting	
	iii. Food and Beverage Service II	iii. Office Communication	
20. Namthang	<b>Horticulture</b>	<b>Dairying</b>	
	i. Vegetable Culture	i. Milk and Milk Products	
	ii. Floriculture	ii. Milk Prod., Transport & Milk Coops.	
	iii. Post Harvest Tech. & Preservation	iii. Dairy Plant Instrumentation	
21. Pelling	<b>Travel &amp; Tourism Management</b>		
	i. India-The Tourist destination		
	ii. Travel Trade Mgt.		
	iii. Tourism Mgt & Manpower Planning		
22. Phodong	<b>Dairying</b>	<b>Automobile Technology</b>	
	i. Milk and Milk Products	i. Engineering Science	
	ii. Milk Prod., Transport & Milk Coops.	ii. Auto Engineering	
	iii. Dairy Plant Instrumentation	iii. Auto Shop Repair and Practice	

Name of the Govt SS School	Vocational Stream	Vocational Stream	Add subject
23. Braspati Parsai Ranipool	<b>Horticulture</b>	<b>I T Application</b>	
	i. Vegetable Culture	i. IT Systems	
	ii. Floriculture	ii. Business Data Processing	
	iii. Post Harvest Tech. & Preservation	iii. DTP, CAD and Multimedia	
24. Ranka	<b>Horticulture</b>		
	i. Vegetable Culture		
	ii. Floriculture		
	iii. Post Harvest Tech. & Preservation		
25. Rumtek	<b>I T Application</b>	<b>Travel &amp; Tourism Management</b>	
	i. IT Systems	i. India-The Tourist destination	
	ii. Business Data Processing	ii. Travel Trade Mgt.	
	iii. DTP, CAD and Multimedia	iii. Tourism Mgt & Manpower Planning	
26. Rhenock	<b>Horticulture</b>		
	i. Vegetable Culture		
	ii. Floriculture		
	iii. Post Harvest Tech. & Preservation		
27. VCGL Ravangla	<b>Travel &amp; Tourism Management</b>	<b>Automobile Technology</b>	
	i. India-The Tourist destination	i. Engineering Science	
	ii. Travel Trade Mgt.	ii. Auto Engineering	
	iii. Tourism Mgt & Manpower Planning	iii. Auto Shop Repair and Practice	
28. Sadam	<b>Horticulture</b>	<b>I T Application</b>	
	i. Vegetable Culture	i. IT Systems	
	ii. Floriculture	ii. Business Data Processing	
	iii. Post Harvest Tech. & Preservation	iii. DTP, CAD and Multimedia	
29. Singtam	<b>I T Application</b>		Photography
	i. IT Systems		
	ii. Business Data Processing		
	iii. DTP, CAD and Multimedia		
30. Sombaria	<b>Horticulture</b>	<b>Dairying</b>	
	i. Vegetable Culture	i. Milk and Milk Products	
	ii. Floriculture	ii. Milk Prod., Transport & Milk Coops.	
	iii. Post Harvest Tech. & Preservation	iii. Dairy Plant Instrumentation	
31. Samdong	<b>Horticulture</b>	<b>Dairying</b>	
	i. Vegetable Culture	i. Milk and Milk Products	
	ii. Floriculture	ii. Milk Prod., Transport & Milk Coops.	
	iii. Post Harvest Tech. & Preservation	iii. Dairy Plant Instrumentation	
32. Sang	<b>Horticulture</b>	<b>Travel &amp; Tourism Management</b>	
	i. Vegetable Culture	i. India-The Tourist destination	
	ii. Floriculture	ii. Travel Trade Mgt.	
	iii. Post Harvest Tech. & Preservation	iii. Tourism Mgt & Manpower Planning	
33. Soreng	<b>Horticulture</b>	<b>I T Application</b>	
	i. Vegetable Culture	i. IT Systems	
	ii. Floriculture	ii. Business Data Processing	
	iii. Post Harvest Tech. & Preservation	iii. DTP, CAD and Multimedia	
35. Tadong	<b>Hotel Mgt &amp; Cat Technology</b>		I T Systems
	i. Food Preparation II		
	ii. Accomodation Service		
	iii. Food and Beverage Service II		
36. Tashiding	<b>Horticulture</b>	<b>Hotel Mgt &amp; Cat Technology</b>	
	i. Vegetable Culture	i. Food Preparation II	
	ii. Floriculture	ii. Accomodation Service	

Name of the Govt SS School	Vocational Stream	Vocational Stream	Addl subject
37. Sir TNSS (Boys)	<b>I T Application</b>	<b>Automobile Technology</b>	
	i. IT Systems	i. Engineering Science	
	ii. Business Data Processing	ii. Auto Engineering	
	iii. DTP, CAD and Multimedia	iii. Auto Shop Repair and Practice	
38. Teemi	<b>Horticulture</b>	<b>Dairying</b>	
	i. Vegetable Culture	i. Milk and Milk Products	
	ii. Floriculture	ii. Milk Prod., Transport & Milk Coops.	
	iii. Post Harvest Tech. & Preservation	iii. Dairy Plant Instrumentation	
39. West Point	<b>I T Application</b>		Photography
	i. IT Systems		
	ii. Business Data Processing		
	iii. DTP, CAD and Multimedia		
40. Yangang	<b>I T Application</b>	<b>Automobile Technology</b>	
	i. IT Systems	i. Engineering Science	
	ii. Business Data Processing	ii. Auto Engineering	
	iii. DTP, CAD and Multimedia	iii. Auto Shop Repair and Practice	

## SCHEME OF STUDIES: Vocational Stream

The learning area includes:

### I. PAPER I & II: Language(s) - (Core/Elective): -

**Language I** : Core English

**Language II \***: English Elective, Limboo, Lepcha, Bhutia, Hindi, Nepali, Tibetan, any subject offered at the elective level.

**NB:** (\*as per availability in School)

**Note:** The languages may be offered either at Core/Elective level. The same language, however cannot be offered both at the Core level and Elective level.

### III. PAPER III to V:

Three Electives as per the voc stream package e.g.:

**Horticulture-**

<b>Paper III</b>	: Vegetable Culture
<b>Paper IV</b>	: Floriculture
<b>Paper V</b>	: Post Harvest Tech & Preservation

### VI. General Foundation Course (GFC)

**Part I-** Environmental Education, Rural Development, Information, Communication & Technology, Entrepreneurship Development.

**Part II-** As per the vocational stream

### VII. Physical & Health Education

**NB:** (V, VI & VII: Compulsory for all vocational candidates)

### VIII. On the Job Training

### IX. \* Apprenticeship Training

(\* One year apprenticeship training upon successful completion for students desirous to do so)

Information on Vocational Streams introduced w.e.f. February, 2004 at the respective Senior Secondary Schools of Sikkim under "VE at +2 level Programme"

### **Vocational Stream - Horticulture**

Sl. No.	Govt SSS School offering Horticulture
1.	ASSAM LINGZHEZY SS SCHOOL, EAST SIKKIM
2.	BERMIOK TOKKAKAL SS SCHOOL, SOUTH SIKKIM
3.	BURIAKHOP SSS SCHOOL, WEST SIKKIM
4.	CENTRAL PENINDAM SS SCHOOL, EAST SIKKIM
5.	CHAKUNG SSS SCHOOL, WEST SIKKIM
6.	CHUJACHEN SSS SCHOOL, EAST SIKKIM
7.	DENTAM SSS SCHOOL, WEST SIKKIM
8.	DIKLING SSS SCHOOL, EAST SIKKIM
9.	HEE GYATHANANG SS SCHOOL, NORTH SIKKIM
10.	HEE YANGTHANANG SS SCHOOL, WEST SIKKIM
11.	KHAMDONG SSS SCHOOL, EAST SIKKIM
12.	MAMRING SSS SCHOOL, EAST SIKKIM
13.	MANGALBARIA SSS SCHOOL, WEST SIKKIM
14.	NAMCHI(Co-Ed) SS SCHOOL, SOUTH SIKKIM
15.	NAMTHANG SSS SCHOOL, SOUTH SIKKIM
16.	RANIPOOL SSS SCHOOL, EAST SIKKIM
17.	RHENOCK SSS SCHOOL, EAST SIKKIM
18.	SADAM SSS SCHOOL, SOUTH SIKKIM
19.	SAMDONG SSS SCHOOL, EAST SIKKIM
20.	SANG SSS SCHOOL, EAST SIKKIM
21.	SOMBARIA SSS SCHOOL, WEST SIKKIM
22.	SORENG SSS SCHOOL, WEST SIKKIM
23.	TASHIDING SSS SCHOOL, WEST SIKKIM
24.	TEEMI SSS SCHOOL, SOUTH SIKKIM

Voc. Stream: "Horticulture" is comprised of Three Electives i.e. Subjects and the Theory/Practical weightage of these subjects are:

	<b>Theory</b>	<b>Practical</b>
[i] <b>Vegetable Culture</b>	<b>30%</b>	<b>70%</b>
[ii] <b>Floriculture</b>	<b>30%</b>	<b>70%</b>
[iii] <b>Post Harvest Technology &amp; Preservation</b>	<b>30%</b>	<b>70%</b>

The CBSE allocated code numbers for the above electives are

(a) Vegetable Culture	---	<b>642</b>
(b) Floriculture	---	<b>643</b>
(c) Post harvest technology & preservation	---	<b>644</b>

1. Accreditation and Certification of Horticulture Stream is governed by CBSE, New Delhi.

2. One Month "On the Job Training" at respective 'OJT' Centres. "On the Job Training" is an integral, mandatory & essential component as per the norms of Vocational Education Curriculum and the CBSE Scheme of Studies. As such, the concerned students are required to undergo On the job training for or at least four (4) weeks. The students are thus able to acquire first hand experience of the Actual Work Environment through "OJT".

### Vocational Stream - Dairying

Sl. No.	Govt SS School offering Dairying
1.	BERMIOK TOKAL SS SCHOOL, SOUTH SIKKIM
2.	CENTRAL PENDAM SS SCHOOL, EAST SIKKIM
3.	DENTAM SS SCHOOL, WEST SIKKIM
4.	DIKLING SS SCHOOL, EAST SIKKIM
5.	HEE YANGTHANG SS SCHOOL, WEST SIKKIM
6.	NAMTHANG SS SCHOOL, SOUTH SIKKIM
7.	PHODONG SS SCHOOL, NORTH SIKKIM
8.	SAMDONG SS SCHOOL, EAST SIKKIM
9.	SOMBARIA SS SCHOOL, WEST SIKKIM
10.	TEEMI SS SCHOOL, SOUTH SIKKIM FROM 2005 ONLY

3. Voc. Stream: "Dairying" is comprised of Three Electives i.e. Subjects and their

**Theory/Practical** Composition of these subjects are: -

	<u>Theory</u>	<u>Practical</u>
(i) <b>Milk and Milk Products</b>	30%	70%
(ii) <b>Milk Products, Transport &amp; Cooperatives</b>	30%	70%
(iii) <b>Dairying Plant Instrumentation</b>	30%	70%

The CBSE allocated code numbers for the above electives are:

(a) Milk & Milk Products	---	639
(b) Milk products, transport, milk coop	---	640
(c) Dairy plant instrumentation	---	641

1. Accreditation and Certification of Dairying Stream is governed by CBSE, New Delhi.
2. One Month "On the Job Training" at respective 'OJT' Centres. "On the Job Training" is an integral, mandatory & essential component as per the norms of Vocational

Education Curriculum and the CBSE Scheme of Studies. As such, the concerned students are required to undergo On the job training for at least four (4) weeks. The Students are thus able to acquire first hand experience of the Actual Work Environment through “OJT”.

### **Vocational Stream – I T Application**

Sl. No	Govt SS School offering I T Application
1.	ENCHEY SS SCHOOL, EAST SIKKIM
2.	GEYZING SS SCHOOL, WEST SIKKIM
3.	LINGDOK SS SCHOOL, EAST SIKKIM
4.	MANGALBARIA SS SCHOOL, WEST SIKKIM
5.	MANGAN SS SCHOOL, NORTH SIKKIM
6.	RANIPOOL SS SCHOOL, EAST SIKKIM
7.	SINGTAM SS SCHOOL, EAST SIKKIM
8.	SORENG SS SCHOOL, WEST SIKKIM
9.	SIR TN SS SCHOOL, EAST SIKKIM
10.	WEST POINT SS SCHOOLS, EAST SIKKIM
11.	YANGANG SS SCHOOL, SOUTH SIKKIM
12.	SADAM SS SCHOOL, SOUTH SIKKIM <small>FROM 2005 ONLY</small>

☞ Voc. Stream: “I T Application” is comprised of Three Electives i.e. Subjects and the **Theory/Practical** Composition of these subjects are: -

	<b>Theory</b>	<b>Practical</b>
[i] <b>I T Systems</b>	<b>50%</b>	<b>50%</b>
[ii] <b>Business Data Processing</b>	<b>50%</b>	<b>50%</b>
[iii] <b>DTP, CAD &amp; Multimedia</b>	<b>40%</b>	<b>60%</b>

The CBSE allocated code numbers for the above electives are

(a) I T Systems	---	<b>699</b>
(b) Business Data Processing	---	<b>700</b>
(c) DTP, CAD & Multimedia	---	<b>701</b>

1. Accreditation and Certification of I T Application Stream is governed by CBSE, New Delhi.
2. One Month “On the Job Training” at respective ‘OJT’ Centers. “On the Job Training” is an integral, mandatory & essential component as per the norms of Vocational

Education Curriculum and the CBSE Scheme of Studies. As such, the concerned students are required to undergo On the job training for at least four (4) weeks. The Students are thus able to acquire first hand experience of the Actual Work Environment through "OJT".

### Vocational Stream - Office Secretaryship

Sl. No	Govt SS School offering Office Secretaryship
1.	NAMCHI (G)SS SCHOOL, SOUTH SIKKIM
2.	DEORALI (G) SS SCHOOL, EAST SIKKIM

☞ Voc. Stream: "Office Secretaryship" is comprised of Three Electives i.e. Subjects and the **Theory/Practical** Composition of these subjects are: -

	<b>Theory</b>	<b>Practical</b>
[i] <b>Office Practice &amp; Secretaryship</b>	<b>30%</b>	<b>70%</b>
[ii] <b>Secretarial Practice &amp; Accounting</b>	<b>60%</b>	<b>40%</b>
[iii] <b>Office Communication</b>	<b>60%</b>	<b>40%</b>

The CBSE allocated code numbers for the above electives are

(a) Office Practice & Secretaryship	---	<b>604</b>
(b) Secretarial Practice & Accounting	---	<b>605</b>
(c) Office Communication	---	<b>606</b>

1. Accreditation and Certification of Office Secretaryship Stream is governed by CBSE, New Delhi.
2. One Month "On the Job Training" at respective 'OJT' Centers. "On the Job Training" is an integral, mandatory & essential component as per the norms of Vocational Education Curriculum and the CBSE Scheme of Studies. As such, the concerned students are required to undergo On the job training for at least four (4) weeks. The Students are thus able to acquire first hand experience of the Actual Work Environment through "OJT".

### Vocational Stream - Automobile Technology

Sl. No	Govt SS School offering Automobile Technology
1.	PHODONG SS SCHOOL, NORTH SIKKIM
2.	RAVANGLA SS SCHOOL, SOUTH SIKKIM
3.	TN SS SCHOOL, EAST SIKKIM
4.	YANGANG SS SCHOOL, SOUTH SIKKIM

Voc. Stream: "Automobile Technology" is comprised of Three Electives i.e. Subjects and the **Theory/Practical** Composition of these subjects are: -

	<u>Theory</u>	<u>Practical</u>
<b>[i] Engineering Science</b>	<b>70%</b>	<b>30%</b>
(a) Engineering Drawing	(40)	
(b) Workshop Technology	(30)	
<b>[ii] Auto Engineering</b>	<b>30%</b>	<b>70%</b>
<b>[iii] Auto Shop Repair and Practice</b>	<b>30%</b>	<b>70%</b>

The CBSE allocated code numbers for the above electives are

(a) Engineering Science	---	<b>622</b>
(b) Auto Engineering	---	<b>627</b>
(c) Autoshop Repair & Practice	---	<b>628</b>

1. Accreditation and Certification of Automobile Technology Stream is governed by CBSE, New Delhi.
2. One Month "On the Job Training" at respective 'OJT' Centers. "On the Job Training" is an integral, mandatory & essential component as per the norms of Vocational Education Curriculum and the CBSE Scheme of Studies. As such, the concerned students are required to undergo On the job training for at least four (4) weeks. The Students are thus able to acquire first hand experience of the Actual Work Environment through "OJT".

### **Vocational Stream – Travel & Tourism Management**

Sl. No.	Govt SS School offering Travel & Tourism Management
1.	CHAKUNG SS SCHOOL, WEST SIKKIM
2.	PELLING SS SCHOOL, WEST SIKKIM
3.	SANG SS SCHOOL, EAST SIKKIM
4.	LINGDOK SS SCHOOL, EAST SIKKIM FROM 2005 ONLY
5.	RAVANGLA SS SCHOOL, SOUTH SIKKIM FROM 2006 ONLY

Voc. Stream: "Travel & Tourism Management" is comprised of Three Electives i.e. Subjects and the **Theory/Practical** Composition of these subjects are: -

	<u>Theory</u>	<u>Practical</u>
<b>[i] India- The Tourist Destination</b>	<b>60%</b>	<b>40%</b>
<b>[ii] Travel Trade Management</b>	<b>60%</b>	<b>40%</b>
<b>[iii] Tourism Management &amp; Manpower Planning</b>	<b>60%</b>	<b>40%</b>



The CBSE allocated code numbers for the above electives are

(a) India- The Tourist Destination	---	<b>693</b>
(b) Travel Trade Management	---	<b>694</b>
(c) Tourism Management & Manpower Planning	---	<b>695</b>

1. Accreditation and Certification of Travel & Tourism Management Stream is governed by CBSE, New Delhi.
2. One Month "On the Job Training" at respective 'OJT' Centers. "On the Job Training" is an integral, mandatory & essential component as per the norms of Vocational Education Curriculum and the CBSE Scheme of Studies. As such, the concerned students are required to undergo On the job training for at least four (4) weeks. The Students are thus able to acquire first hand experience of the Actual Work Environment through "OJT".

### Vocational Stream - Hotel Management & Catering Technology

Sl. No.	Govt SS School offering Hotel management & Catering Technology
1.	DEORALI (GIRLS) SS SCHOOL, EAST SIKKIM
2.	MANGAN SS SCHOOL, NORTH SIKKIM
3.	NAMCHI(GIRLS) SS SCHOOL, SOUTH SIKKIM
4.	TASHIDING SS SCHOOL, WEST SIKKIM

Voc. Stream: "Hotel Management & Catering Technology" is comprised of Three Electives i.e. Subjects and the **Theory/Practical** Composition of these subjects are: -

	<u>Theory</u>	<u>Practical</u>
[i] <b>Food Preparation II</b>	<b>50%</b>	<b>50%</b>
[ii] <b>Accommodation Service</b>	<b>50%</b>	<b>50%</b>
[iii] <b>Food &amp; Beverage Service II</b>	<b>50%</b>	<b>50%</b>

The CBSE allocated code numbers for the above electives are

(a) Food Preparation II	---	<b>690</b>
(b) Accommodation Service	---	<b>691</b>
(c) Food & Beverage Service II	---	<b>692</b>

1. Accreditation and Certification of Hotel Management & Catering Technology Stream is governed by CBSE, New Delhi.
2. One Month "On the Job Training" at respective 'OJT' Centers. "On the Job Training" is an integral, mandatory & essential component as per the norms of Vocational

Education Curriculum and the CBSE Scheme of Studies. As such, the concerned students are required to undergo On the job training for at least four (4) weeks. The Students are thus able to acquire first hand experience of the Actual Work Environment through “OJT”.

### **Vocational Stream - Poultry Farming**

Sl. No.	Govt SS School offering Poultry Farming
1.	BURIAKHOP SS SCHOOL, WEST SIKKIM
2.	ASSAM LINGZEY SS SCHOOL, EAST SIKKIM

Voc. Stream: “Poultry Farming” is comprised of Three Electives i.e. Subjects and the **Theory/Practical** Composition of these subjects are: -

	<b><u>Theory</u></b>	<b><u>Practical</u></b>
(i) <b>Poultry Nutrition &amp; Physiology</b>	<b>50%</b>	<b>50%</b>
(ii) <b>Poultry Products Technology</b>	<b>50%</b>	<b>50%</b>
(iii) <b>Poultry Diseases &amp; their Control</b>	<b>50%</b>	<b>50%</b>

The CBSE allocated code numbers for the above electives are

(a) Poultry Nutrition & Physiology	---	<b>716</b>
(b) Poultry Products Technology	---	<b>717</b>
(c) Poultry Diseases & their Control	---	<b>718</b>

1. Accreditation and Certification of Poultry Farming Stream is governed by CBSE, New Delhi.
2. One Month “*On the Job Training*” at respective ‘OJT’ Centers. “*On the Job Training*” is an integral, mandatory & essential component as per the norms of Vocational Education Curriculum and the CBSE Scheme of Studies. As such, the concerned students are required to undergo On the job training for at least four (4) weeks. The Students are thus able to acquire first hand experience of the Actual Work Environment through “OJT”.



**HUMAN RESOURCE DEVELOPMENT DEPARTMENT  
GOVERNMENT OF SIKKIM  
GANGTOK**

Ref. No. 45/Amts/HRDD


Date: 25/5/05

**UTILIZATION CERTIFICATE**

1. This is certified that out of Rs. 291.48 lakhs of grants-in-aid released in the year 2003-04 in favour of Account Officer, Government of Sikkim under the Ministry of Human Resource Development's Letter No. given in the table below has been completely utilized for the purpose it was sanctioned and there is no balance left with the department. The fund unutilized at the end of the year 2004-05 is NIL.
2. The MHRD vide letter no. F1-9/2001-VEII/T.S8 Dated 02.01.04 had agreed to carry forward the unspent balance to be utilized in financial year 2004.
3. This is certified that I have satisfied myself that the conditions on which the grants-in-aid were sanctioned have been duly fulfilled.

Sl. No.	Letter No. & Date	Sanctioned Amount (Rs.In Lakhs.)	Released Amount (Rs.In Lakhs.)
1	F-1-9/2001-VE-II/TSVIII Dt. 02/01/2004	409.53	291.48

  
 Secretary  
 Human Resource Development Dept.  
 Government of Sikkim

  
 Accounts officer  
 Human Resource Development Dept.  
 Government of Sikkim.



**HUMAN RESOURCE DEVELOPMENT DEPARTMENT  
GOVERNMENT OF SIKKIM  
GANGTOK**

Ref No.: 1769/ACCT/HRDD

Dated: 17/12/05

**UTILIZATION CERTIFICATE**

1. This is certified that out of Rs. 118.05 lakhs of Grants-in-Aid released during 2005-06 in favour of Accounts Officer, Government of Sikkim under the Ministry of Human Resource Development's letter no. given in the table hereinbelow has been completely utilized for the purpose it was sanctioned and there is no balance left with the Department. The fund unutilized thereof is NIL.

2. This is certified that I have satisfied myself that the conditions on which the Grants-in-Aid were sanctioned have been duly fulfilled.

Sl. No.	Letter No. & Date	Sanctioned Amount (Rs. in Lakhs)	Released Amount in 2003-04 (Rs. in Lakhs)	Released Amount (Rs. in Lakhs)
1	F.1-9/2001-VEII/TS.8 Dt. 05:10:2005	409.53/-	291.48/-	118.05/-
			<u>Remarks</u> [1] Amount released and allowed to utilize by MHRD vide letter no. F.1-9/2001-VEII/TS.8 dt. 02:01:2004 [2] UC for 291.48 lakhs furnished by HRDD vide Ref. no. 45/ACCT/HRDD dt 25:05:05	

*[Signature]*  
Secretary

Human Resource Development Department  
Government of Sikkim

*[Signature]*  
Accounts Officer

Human Resource Development Department  
Government of Sikkim

GOVERNMENT OF SIKKIM



**HUMAN RESOURCE DEVELOPMENT DEPARTMENT  
DIRECTORATE OF SECONDARY, SS & VOCATIONAL EDUCATION  
GOVERNMENT OF SIKKIM  
GANGTOK**

Ref No. 397 /HRDD/VOC

dated 07 /07/2006

**UTILIZATION CERTIFICATE**

Sl No	Letter No. and date	Amount (Rs in lakhs)
1	F. 1-9/2001-VE.II/TS.8 Dated 22:02:06	242/-
2	F. 1-9/2001-VE.II/TS.8 Dated 24:03:06	94/-
	Total	336/-

Certified that out of Rs. 336 lakhs of grants in aid sanctioned during the year 2005-06 in favour of Accounts Officer, Government of Sikkim under the Ministry of Human Resource Development's Letter Nos. given in the margin and Rs. Nil lakhs on account of unspent balance of the previous year; a sum of Rs. 301.32 lakhs (Rupees three hundred one lakhs thirty two thousand only) has been utilized for the purpose of Vocational Education for which

it was sanctioned and an amount of Rs. 34.68 lakhs (Rupees thirty four lakhs sixty eight thousand) remaining unutilized at the end of the year may be adjusted towards the grants-in-aid payable during the next year 2006-07.

2. Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been duly fulfilled/are being fulfilled and that the money was actually utilized for the purpose for which it was sanctioned.

Accounts Officer (RQ)  
Human Resource Development Department  
Government of Sikkim

Secretary  
Human Resource Development Department  
Government of Sikkim



### **MODES OF PRACTICALS FOR VOCATIONAL SUBJECTS**

The “Implementation of Vocational Education as distinct Vocational Streams at +2level in 40 Sr.Sec.Schools in Sikkim”, a Centrally Sponsored Scheme (CSS); was commenced from February, 2004.

All the Vocational Streams, except Poultry & Photography that are run as per PSSCIVE framed syllabi; are run as per the **approved norms of CBSE Scheme of Studies** and Certification & Examination are being governed by CBSE, under which all the 40 Sr.Sec.Schools are affiliated.

## I. PRACTICALS CONDUCTED WITH RESPECT TO THE VOCATIONAL STREAM OF HORTICULTURE: -

Horticulture as a stream, approved under the CBSE course curriculum for +2 level is being offered at 24(Twenty Four) Govt. Sr.Sec.Schools in Sikkim. The Practical classes of the student are conducted both at “laboratory” and “plots of land” made available by every school. The students are encouraged to handle ‘State of the Art’ equipment so that the subject generates more interest amongst them.

The Department of Agriculture & Horticulture, Govt. of Sikkim conducts demonstration trials at the schools so that the students can be taught the various On-farm skills. Proformas, which have been developed to record the basic data as applicable to various practical classes.

The students have been taught the basics of **Pomology, Olericulture & Floriculture**, besides preliminaries of food preservation and post harvest technology. The students are encouraged to form Groups and work in coordination for imbining in them the team spirit and better performance.

### [i] Laboratory Practical:

The faculty members appraise the students about the outline of the Practicals to be conducted; thereafter the theory associated with the Practicals are dictated, followed by **identification of the needful implements/tools**. This is followed by **Methodology, calculations and inference** as applicable. Lastly, precautions needed for each practical are communicated to the students. The faculty then demonstrates the various procedures prior to the test carried out by the students.

### [ii] Field Practical (within schools premises):

Regarding field Practicals; various field activities are carried out in the field i.e. land measurement, land preparation, manure application, seed sowing/seedling transplanting, weed control, plant protection measures through IPM (integrated pest management), irrigation, harvesting, etc and thereon required observations are taken. This is followed by question answer session after which the faculties correct the practical copies of the students.

**[iii] Practical at farmers’ field/Govt. Horticulture/Agri. Farm:**The faculties are directed to be in touch with the nearest facility available with local farmers/Govt. /Agri. Farms where the students carry out their practical tasks.

### [iv] Industrial Linkage:

Experience of real work situation are provided to the students and then they are attached to any of the unit (engaged in horticulture/agriculture activities)

located at the nearby vicinities of the school. The duration of such are generally four weeks and conducted preferably during the Summer/Winter vacations.

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## II. PRACTICALS CONDUCTED WITH RESPECT TO THE VOCATIONAL STREAM OF I T APPLICATION: -

At present, 12 schools out of the 40 Govt.Sr.Sec.Schools are offering IT Application as Vocational Stream. All the schools offering IT Application have been provided with well qualified faculties with industrial experience. To conduct proper practical classes and to make the students properly skilled the following modes, approved as per CBSE norms; have been adopted:

- 1] Regular Practical classes are conducted for two periods per day.
  - 2] Periodical assignment of projects and other assignments to the students to assess competencies of students.
  - 3] The schools have been provided with computer sets & peripherals so that the students can get hands on training on computer hardware.
  - 4] Students are properly evaluated on the basis of their practical records.
  - 5] “**Production cum Training**” Center have been set up in all the schools and students are encouraged to take up job works from schools and nearby Govt. Institutions.
  - 6] For “On the Job Training”; students are placed on nearby Community Information Centre’s (CIC) with cooperation from the Information Technology Dept., Govt of Sikkim and Private and Commercial Institutions.
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## III. PRACTICALS CONDUCTED WITH RESPECT TO THE VOCATIONAL STREAM OF AUTOMOBILE TECHNOLOGY: -

At present, 4 schools out of the 40 Govt.Sr.Sec.Schools have offered Automobile Technology as Vocational Stream. The schools offering Automobile Technology have been provided with all parts of automobiles and other essential equipments required for conducting practical classes. All the schools have set up workshops to conduct servicing on different types of automobiles. All the schools have been provided well qualified teachers & Instructors. With a view to



properly conduct practical classes and to make the students properly skilled the; following modes as per the approved norms of CBSE Scheme of Studies have been adopted:

- 1] Practical classes are conducted for **two periods** per day.
- 2] **“Production cum Training”** centers have been set up in all the schools.
- 3] Students are provided with opportunities for performing servicing of Govt. vehicles at service stations where seminars are conducted.
- 4] Students are properly evaluated on the basis of their practical records.
- 5] Demonstration of servicing jobs that vary from simple to difficult are done for the students. For instance, the basic knowledge that ‘No repair job requires more than six steps viz: -
  1. Measuring
  2. Disassembling
  3. Machining
  4. Installing new, rebuilt, or serviced parts
  5. Reassembling
  6. Adjusting

Some jobs require fewer steps. Many require removal of a part from the vehicle, and then reinstalling it or a new or rebuilt part. The various steps may require hand tools, measuring tools, and power tools.

- 6] “On the Job Training” for one month are scheduled after proper organization of linkages with concerned stations of State Government and Private and Commercial establishments.

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#### **IV. PRACTICALS CONDUCTED WITH RESPECT TO THE VOCATIONAL STREAM OF OFFICE SECRETARYSHIP: -**

2(Two) Govt Sr.Sec.Schools are currently offering OFFICE SECRETARYSHIP as Vocational Stream under the ongoing “VE At +2level in 40 Sr.Sec.Schools in Sikkim”. All the schools have been provided with Computers, Printers, Scanners, Typewriters and different types of Files and Folders required for proper conduction of Practical classes under the approved norms of the CBSE Scheme of Studies. To conduct proper practical classes and to make the students properly skilled the following modes have been adopted:

- 1] Regular Practical classes are being conducted for two periods per day.
- 2] Periodical assignments of projects are carried out by the students.

- 3] To get hands-on training; the students have been provided with Computers; Printers, Scanners, Typewriters and different types of Files and Folders
- 4] The competencies of students are properly evaluated on the basis of their practical records.
- 5] Students are facilitated for "On the Job Training" for one month in any of the nearby banks and other govt. offices relate to their vocation.
- 6] "**Production cum Training**" Centers have been set up in all the schools.

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#### **V. PRACTICALS CONDUCTED WITH RESPECT TO THE VOCATIONAL STREAM OF TRAVEL & TOURISM MANAGEMENT: -**

There are 4(four) schools presently offering Travel & Tourism Management as Vocational Stream. With the importance accorded for Practicals under Vocational Education; the students are actively involved in the practical classes as per the prescribed syllabus of CBSE.

##### **[i] Demonstration:**

Colorful wall maps are given to students to show important tourist destination. Exercises are then given to students to find out other places of interest in terms of cultural, religious, festivals, historical, flora & wildlife factors.

Demonstration of adventure sports equipments and their proper usage are imparted to each student during the course of the practical classes.

##### **[ii] Class room exercise:**

Exercises are given to students to p[prepare tourist circuits as per the syllabus under the norms of CBSE scheme of studies. As Sikkim is one of the areas in India which has tremendous tourist potential, the students are accordingly given exercises based on the available information. They are taught the norms of setting up Travel Agencies as per the State Rule. Exercises on filling of Guest Register Card (GRC), railway and airlines ticketing and sealing are also conducted.

##### **[iii] Outdoor exercises:**

Since Sikkim has a large potential to conduct Adventure sports, students are taught the basics of rock climbing, river crossing, making safety knots and

utility of mountaineering equipments and camping, trekking tips and walking style.

**[iv] Visit to Places of Interest:**

Exposure visits to important places of interest are conducted. Students are instructed to abide by the local customs prevalent and respect them as such. Sikkim has one of the largest number of Buddhist Monasteries in the country. Visits to Rumtek Monastery by students of East District and Pema - Yangtse Monastery by students of West District have been conducted so far and for which they have appropriately prepared reports and submitted accordingly.

**[v] Exhibition & Participation**

Students & Faculty members actively participated during "KanchenDzonga Festival" in West & South Sikkim during the month of May, 05. The students exhibited different models of historical monuments prepared in their practical classes. This incidentally coincided with Govt Senior Secondary School's platinum jubilee celebration.

**[vi] Industrial training:**

During peak tourist season i.e. the spring season in Sikkim, students participated in Industrial Training. They have worked in reputed travel agencies for fifteen days. The students; on completion of Industrial Training prepare their reports.

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**VI. PRACTICALS CONDUCTED WITH RESPECT TO THE VOCATIONAL STREAM OF HOTEL MANAGEMENT & CATERING TECHNOLOGY: -**

There are 5 schools presently offering Hotel Management & Catering Technology. As per approved norms of CBSE, all the required utensils & equipments for conduction of proper practical classes for the three electives i.e. I,II& III viz. Food production, Accommodation operation and food and beverage service. To ensure the above as such, following modes are adopted:

**[i] Demonstration:**

For creating awareness of different utensils/ equipments, glass wares/cooking wares, raw materials and other laboratory items along with the methodology, several demonstration sessions are organized for every paper by

the faculty members before the students to ensure proper conduction of practical classes.

**[ii] Lab classes:**

As per CBSE syllabus of each paper, practical classes are accordingly held. The students perform under strict surveillance and supervision of faculty members. Accommodation operation is carried on nearby hotels in the vicinities of schools. Lab records are based on:

- ✓ Title of exercise with date
- ✓ Objective of exercise
- ✓ Relevant information regarding that particular practical
- ✓ Material required
- ✓ Procedure/ Methodology
- ✓ Observation
- ✓ Precautions

**[iii] Visits to hotels**

To introduce students into the prevalent work culture, industrial trainings are organized for 4 weeks at different hotels where they work under trained staff of the respective hotels. Students prepare detailed reports on the basis of which their competencies are evaluated. This kind of training during winter/summer breaks make them well acquainted with real work situation.

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**VII. PRACTICALS CONDUCTED WITH RESPECT TO THE VOCATIONAL STREAM OF DAIRYING: -**

Animal Husbandry contributes significantly to the development of the rural economy of the state of Sikkim. The state has a well developed MILK UNION and there is also well established dairy plant manufacturing Cheese. Currently there are 9 (Nine) Government Sr.Sec.Schools offering DAIRYING as Vocational Stream at +2 level. Well qualified Veterinarians and Dairy technologists as per requirement are serving as the faculty for the same.

The Practical classes are held according to the prescribed norms and approved under the CBSE Scheme of Studies.

**[i] Laboratory practical:**

A well equipped laboratory has been established at each & every school and students are taught all the Practicals with respect to each Elective paper of

the stream of Dairying. The state of the art equipments needed for conducting the Practicals regarding DAIRY PRODUCTION & DAIRY PROCESSING have already been supplied to the respective schools. In the context of quality testing of milk & product development; the students are taught by qualified Dairy technologists with the equipments provided to the schools.

Prior to each Experiment, the theory part of the same are taught to the students followed by objective of the experiments, methods, calculations, inference and precautions related thereof.

The Experiments are firstly demonstrated to the students by the faculty and then the students are to follow the same; although under strict vigil and guidance of the faculties.

**[ii]Field Practical:**

The Practicals with regard to DAIRY PRODUCTION which include dairy animal housing management , feeding management, disease prevention and treatment, breeding management and handling of the animals are conducted at the local veterinary dispensaries and even at the farmers cattle shed available in nearby vicinities of the schools.

Visits to nearest Dairy Processing Plant are arranged with a view to help students learn about the commercial processing of milk and manufacturing of Dairy products.

**[iii] On the Job Training (OJT) Programme:**

On the job Training Programmes are arranged for students during their winter vacations with cooperation from dairy processing plants and veterinary dispensaries located at nearby places to help students get acquainted with the real work environment. At these places, the students perform their jobs/tasks as per the work/time schedule of the industrial unit under the supervision of well experienced personnel.

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**VIII. PRACTICALS CONDUCTED WITH RESPECT TO THE VOCATIONAL STREAM OF POULTRY FARMING: -**

There are 4 schools presently offering Poultry Stream at +2level. As per prescribed norms framed by PSSCIVE, Bhopal; all the required equipments for

conduction of proper practical classes for the three electives i.e. I -Poultry Nutrition & Physiology, II -Poultry Products Technology and III -Poultry Diseases & their control have been provided along with well qualified faculties. With a view to ensure smooth conduct of practical classes, following modes have been adopted: -

- 1] Regular Practical classes are conducted for two periods per day.
- 2] Periodical assignment of projects and other assignments to the students to assess competencies of students.
- 3] The schools have been provided with the basic equipments & amenities required as per the prescribed curriculum.
- 4] Students are properly evaluated on the basis of their practical records. Productions of eggs, production of poultry meat, making poultry feed, products, artificial insemination, etc amongst other things are some of the areas that fall the practical curriculum for Poultry.
- 5] **"Production cum Training"** Center have been set up in all the schools and students are encouraged to take up job works from schools and nearby Govt. Institutions.
- 6] For "On the Job Training"; students are placed on nearby Poultry farms with cooperation from the Government of Sikkim and other respective places whereon students are facilitated for their training with the concept of providing the students of real work experience as well as environment.

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#### **IX. PRACTICALS CONDUCTED WITH RESPECT TO THE VOCATIONAL STREAM OF PHOTOGRAPHY: -**

There are 2 schools presently offering Photography as a Vocational Stream at +2level. Along the relevant norms and syllabus framed by PSSCIVE, Bhopal, all the required equipments for conduct of proper practical classes have already been provided to all the schools. The relevant electives under Photography have been framed as Well qualified faculties ensure the smooth conduct of classes for

which the following modes of conducting practical classes have been adopted until confirmation of CBSE approval is received from CBSE, New Delhi: -

- 1] Regular Practical classes are conducted for two periods per day.
- 2] Periodical assignment of projects and other assignments to the students to assess competencies of students.
- 3] The schools have been provided with the basic equipments & amenities required as per the prescribed curriculum.
- 4] Students are properly evaluated on the basis of their practical records.
- 5] Students are provided with opportunities to visit private photo shops and dept of IPR, Govt of Sikkim for their On the Job Training.

Names of On the Job Training Centres (55 nos) in Sikkim where vocational students underwent their requisite "OJT".

On the Job Training Centres for **Automobile Technology** students: -

<i>Name of OJT Centre</i>	<i>Students of Govt SS School</i>
1. SNT Workshop, PS Road, <b>Gangtok</b>	TN SS(Gangtok), Phodong
2. SNT Workshop, <b>Jalipool</b>	Phodong, Yangang
3. SNT Workshop, <b>Jorethang</b>	Ravangla

On the Job Training Centres for **Dairying** students: -

<i>Name of OJT Centre</i>	<i>Students of Govt SS School</i>
4. Vet complex, Dept of AH, LF & VSc, <b>Deorali</b>	Dikling, C. Pendam, Samdong Sombaria, Phodong, B. Tokal & Namthang
5. Feed & Fodder Station, AH, LF & VSc Dept, <b>Karfector</b>	
6. Sikkim Cooperative Milk Union, <b>Tadong</b> , 6 <sup>th</sup> Mile	
7. Sikkim Cooperative Milk Union, <b>Karfector</b>	Hee Yangthang
8. Alpine Cheese Plant, Dentam	

◇ On the Job Training Centres for **Horticulture** students: -

#### East Sikkim

<i>Name of OJT Centre</i>	<i>Students of Govt SS School</i>
9. Model Floriculture Farm, <b>Namli</b>	Ranipool
10. Govt Horticulture Station, <b>Mazitar</b>	Central Pendam
11. Govt Horticulture Station, <b>Nazitam</b>	Sang
12. Govt Horticulture Farm, <b>Dalapchand</b>	Chujachen
13. Govt Horticulture Station, <b>Ralap</b>	Khamdong
14. Govt Horticulture Farm, <b>Lower Samdong</b>	Samdong
15. Sikkim Himalayan Orchid Ltd, <b>Assam Lingzey</b>	Assam Lingzey
16. Sikkim Flora, <b>Dukalakha</b>	Dikling, Mamring

#### West Sikkim

<i>Name of OJT Centre</i>	<i>Students of Govt SS School</i>
17. Govt Horticulture Station, <b>Buriakhop</b> Chakung	Buriakhop, Sombaria, Soreng &
18. Govt Horticulture Station, <b>Kamling</b>	Mangalbaria, Tashiding
19. Govt Horticulture Station, <b>Hee Yangthang</b>	Hee Yangthang, Dentam

#### South Sikkim

<i>Name of OJT Centre</i>	<i>Students of Govt SS School</i>
20. Govt Horticulture Farm, <b>Melli dara</b>	Sadam
21. Govt Horticulture Station, <b>Namthang</b>	Namthang
22. Govt Horticulture Station, <b>Bermiok Tokal</b>	Bermiok Tokal & Teemi
23. Chaanp Guras and Mainam Nursery, <b>Namchi</b>	Namchi (Boys)

#### North Sikkim

<i>Name of OJT Centre</i>	<i>Students of Govt SS School</i>
24. Govt Horticulture Farm, <b>Lower Dzongu</b>	Hee Gyathang



◇ On the Job Training Centres for **Hotel Management & Catering Technology** students: -

<i>Name of OJT Centre</i>	<i>Students of Govt SS School</i>
25. Hotel Norkhill, <b>Gangtok</b>	Deorali
26. Hotel Royal Plaza, <b>Gangtok</b>	Deorali & Mangan
27. Hotel Sonam Palgay, <b>Gangtok</b>	Mangan
28. Orange Village Resort, <b>Gangtok</b>	Deorali
29. Hotel Mount Zopuno, <b>Gangtok</b>	Deorali & Mangan
30. Hotel Chumbi Residency, <b>Gangtok</b>	Mangan
31. Hotel Tibet, <b>Gangtok</b>	Mangan
32. Hotel Mistree Mountain, <b>Gangtok</b>	Mangan
33. Hotel Oriental, <b>Gangtok</b>	Mangan
34. Hotel Samdruptse, <b>Namchi</b>	Namchi (Girls)

◇ On the Job Training Centres for **Travel & Tourism Management** students: -

<i>Name of OJT Centre</i>	<i>Students of Govt SS School</i>
35. Marco Polo World Travels, <b>Gangtok</b>	Sang
36. Himalayan Holidays, <b>Gangtok</b>	Sang
37. Tempo Tours & Travels, <b>Gangtok</b>	Sang
38. Mystic Himalayan World Travels, <b>Gangtok</b>	Chakung & Sang
39. Blue Sky Tours & Travels, <b>Gangtok</b>	Sang
40. Newman Tours & Travels, <b>Gangtok</b>	Sang
41. Snoopy Tours & Travels, <b>Gangtok</b>	Chakung
42. New Swabhiman Tours & Travels, <b>Gangtok</b>	Chakung
43. Sherpa Adventure, <b>Gangtok</b>	Chakung
44. Blue Star Tours & Travels, <b>Gangtok</b>	Pelling
45. Nathula Tours & Travels, <b>Gangtok</b>	Pelling
46. Omega Tours & Travels, <b>Gangtok</b>	Pelling
47. Resolve Jinni International, <b>Gangtok</b>	Pelling

◇ On the Job Training Centres for **I T Application** students: -

<i>Name of OJT Centre</i>	<i>Students of Govt SS School</i>
48. Call Centre, CIC, Info Tech Dept, <b>Gangtok</b>	Ranipool, Enchey, W.Point & TN SS
49. CIC, Dept of Info Technology, <b>Geyzing</b> , West Sikkim	Gyalshing & Soreng
50. CIC, Dept of Info Technology, <b>Mangalbaria</b> , West Sikkim	Mangalbaria
51. CIC, Dept of Info Technology, <b>Mangan</b> , N. Sikkim	Mangan
52. Microtech, <b>Singtam</b>	Singtam
53. CIC, <b>Gangtok</b>	TN SS, Gangtok

◇ On the Job Training Centres for **Office Secretaryship** students: -

<i>Name of OJT Centre</i>	<i>Students of Govt SS School</i>
54. South District Office, <b>Namchi</b> , HRDD, Govt of Sikkim	Namchi
55. LIC Office, <b>Gangtok</b>	Deorali

Website posted by Class XII students of voc stream: I T Application of Mangalbaria Govt Senior Secondary School, W.Sikkim after completion of OJT on Dec, 2005.



## Govt. Sr. Sec. School, Mangalbaria West Sikkim

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"The  
paths  
of  
education  
are  
better  
than  
wealth  
in  
bringing  
prosperity"



" Education  
is a gift  
accept it.  
Education  
is a promise  
fulfil it,  
Education  
is a goal  
achieve it "

**EDUCATION IS A  
WAY OF GOD  
STUDENTS ARE  
THE PILGRIMS  
TEACHERS ARE  
THE PRIESTS  
AND SCHOOL IS A  
TEMPLE**

*'.....From winding brooks where kind Zephyr blows  
Above straying and meandering lanes,  
Up where the air is sweet and pure  
And nature's music refrains.....'*

*(From School Song)*

*Mangalbaria Sr. Sec. School is tucked away in the remote, distant hamlet of Mangalbarey, high in the hills of West Sikkim. Established in 1940 by the late Shri Daw Gyatso Kazi, the school initially boasted of just a handful of students with a teacher or two. The school campus and the school ground were all donated by him too. Today, after nearly 65 years, the school has changed greatly with time.*

*There are nearly 500 students enrolled in the school at present with the number of girls slightly more than that of the boys. The school has been upgraded several times from lower primary to junior high to secondary and finally senior secondary level. The number of staff working here are 43 in number.*

*Mangalbarey is 27 kilometers away from Jorethang and 115 kilometers away from the Capital. The school faces the majestic Mt. Kanchenzonga and the rest of the Himalayan range on the North and at night one can see the distant glimmering lights of Darjeeling on the South. The school is surrounded by Cherry at its main entrance lending a touch of environmental care to all who are there.*

*The school is affiliated to the CBSE and run and financed by the Human Resource Development Department, Govt. of Sikkim.*

*'..... The hum of classrooms in earnest study  
To the making of a man  
From Pencils, Crayons to Ambitions  
To excel in all lands.....'*

*(From School Song)*

*From the pre-primary class to standard twelve, the children and the staff are all hard working and honest. The school consists of 3 buildings in which the classes take place. The different streams available to a student after his/her class ten are Arts, Information Technology and Horticulture.*

*Besides academics, the school stresses on the co-curricular activities of the children too. The school has a small sized football ground in which all the football matches are played. In addition to that, the school also has a volleyball court and a tiny basketball court which was constructed by the students and teachers themselves. The school also boasts of a good cultural faculty. Dancing, singing, music and acting are encouraged and it is often observed that very talented students are present in the school. The school was selected as the best school in tree plantation on Environment day this year.*

**(TAMALAPAKULA DANIEL)  
PRINCIPAL**

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Developed by Students of IT (Vocational) Mangalbaria, West Sikkim

The State Council of Vocational Education, Sikkim (as on 14<sup>th</sup> April, 2006) constituted vide notification no. 328/HRDD/VOC dated 08:12:2005 is comprised of the following members: -

01. Secretary, HRDD, Govt of Sikkim	<b>President</b>
02. Director, HRDD, Govt of Sikkim	<b>Member</b>
03. Representative, MHRD, Govt of India, New Delhi	<b>Member</b>
04. Representative, PSSCIVE, Bhopal	<b>Member</b>
05. Director, Dept of Industries, Govt of Sikkim	<b>Member</b>
06. Addl Director (VE), HRDD, Govt of Sikkim	<b>Member Secretary</b>
07. Joint Director (VE), HRDD, Govt of Sikkim	<b>Member</b>
08. Joint Director (Exam) HRDD, Govt of Sikkim	<b>Member</b>
09. Joint Director (E/W/N/S), HRDD, Govt of Sikkim	<b>Member</b>
10. Principal, Ind Training Institute, Majitar	<b>Member</b>
11. Principal, Namchi(G) SS School	<b>Member</b>
12. Principal, Hee Gyathang SS School	<b>Member</b>

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**Brief Information on the 1<sup>st</sup> General Body Meeting of State Council of Vocational Education (SCVE), Sikkim**

Date: 15<sup>th</sup> April, 06

Venue: Conference Hall, HRDD, Govt of Sikkim, Gangtok

The First General Body Meeting (GBM) of State Council of Vocational Education, Sikkim [SCVE] (constituted vide Notification no 328/HRDD/VOC dated 08:12:2005) was held on 15<sup>th</sup> April, 2006 at the Conference Hall, Human Resource Development Department, Government of Sikkim, Gangtok under the Chairmanship of President of SCVE, Shri C.L. Denzongpa (IRS), Secretary/HRDD.

Dr. R. Muthuraj of Pandit Sunderlal Sharma Central Institute of Vocational Education (PSSCIVE), Bhopal also attended the Meeting as Representative, PSSCIVE (NCERT), Bhopal.

The following members of SCVE were present in the Meeting: -

1. Shri C.L. Denzongpa (IRS), Secretary/ HRDD: President, SCVE
2. Shri M.K. Panicker, Director/HRDD : Member, SCVE
3. Shri S.P. Subba, Director/ Dept of Commerce & Industries: Member, SCVE
4. Dr. D.P.S. Rana, Additional Director (Voc)/HRDD : Member Secretary, SCVE
5. Dr. R. Muthuraj, Representative of PSSCIVE, Bhopal: Member, SCVE
6. Mr. M.P. Subba, Joint Director (West)/HRDD : Member, SCVE
7. Mr. A.B. Gurung, Joint Director (South)/ HRDD : Member, SCVE
8. Smt. Mamta Thapa, Joint Director (East)/HRDD : Member, SCVE
9. Mr. G.B. Niroula, Joint Director (Exam)/ HRDD : Member, SCVE
10. AEO (North) - Representative of Joint Director ( North)/ HRDD: Member, SCVE
11. Mr. K.N. Subudhi, Deputy Director (Voc), HRDD: Member, SCVE
12. Mr. Sonam Denzongpa, Principal, Hee Gyathang SS School : Member, SCVE
13. Mr. R.L. Ramudamu, Principal, Ind. Trg Institute, Majitar : Member, SCVE, Sikkim

The following Officers of HRDD, Govt of Sikkim were present : -

- {1} Mrs. D. Pradhan, Asst Director (Voc)/HRDD
- {2} Mr. G. Pega, Under Secy (Voc)/HRDD
- {3} Mr. D.V. Basnet, AEO (Voc)/HRDD
- {4} Mr. P. T. Bhutia, APC (Voc), HRDD
- {5} Ms Vavna Rai, P A to Director/HRDD

& other Office staff.

The following resolutions were approved by the Council during the General Body Meeting of 15<sup>th</sup> April, 2006: -

**Resolution No. 1:-**

“To consider and approve the induction of more members in SCVE, Sikkim”

Resolution No. 1:- **Accepted and approved**

**Resolution No. 2:-**

“To consider and approve proper implementation of Apprenticeship Act in Sikkim. Coordination, seeking co-operation from various Govt/commercial institutions and making “Apprenticeship Training” and “On the Job Training (OJT)” as Annual features in respect of vocational education students”

☞ Resolution No. 2:- **Accepted and approved**

**Resolution No. 3:-**

“To consider and approve relevant Provision under Plan Budget in connection with vocational education in Sikkim. Also to approve the detailed expenditure statement of first and second year of VE Programme”

☞ Resolution No. 3:- **Accepted and approved**

**Resolution No.4:-**

“[i] To consider and approve Establishment of State Awards for Best Practices on vocational education in Sikkim.

[ii] Also communicate with other Central Universities especially **Agri/Dairying/Info Technology based**, so that voc pass-out students may be able to pursue degree Programmes on their concerned trade.”

☞ Resolution No.4:- **Accepted and approved [i] and [ii]**

Following suggestions were also considered during the Open Discussion Session:

(A) Additional Director (Voc)/HRDD suggested Exposure Visits, to other States where Vocational Education is implemented; may be made so as to learn about new concepts, trades, etc. and gain benefits from them.

(B) Dr. R. Muthuraj, Representative from PSSCIVE, Bhopal suggested introduction of short period modular courses similar to the three-month course, six-month course, ten-month course as is being done in Maharashtra so that the problem of drop-outs could be curbed after. This was also put up for consideration by the State Council Body. He also requested for necessary provision of 1 Year relaxation for our vocational students in Polytechnic Institutes as is being done for students of Tamil Nadu.

(C) The house also unanimously agreed upon and recommended for establishment of District Level Committee and School Level Committee under the purview of the Vocational Section, HRDD, HQ, Govt of Sikkim.

(D) Mr. G.B. Nirula, Joint Director (Exam)/HRDD informed the house on matters pertaining to scholarship for Vocational students. He also informed of the letter sent to Registrar of Delhi University so as to reserve a certain number of seats for Vocational students opting for further studies.


☞ Dr. R. Muthuraj, PSSCIVE, Bhopal addressed the house on the main objectives of Vocational Education which was to curb un-employment problem and to clear drop-out rate. He said that Sikkim was proceeding in the right direction and offered his assistance if there may be such need to ensure that the State achieves good result.

☞ This was followed by address of Secretary/HRDD cum President of General Body of SCVE, Sikkim. Thanking Dr. R. Muthuraj (PSSCIVE) for having attended this GBM and

his encouraging words of wisdom; he applauded the efforts put up by Officers and Staff of Vocational Section, HRDD for having successfully conducted the Meeting. He also went on to say that despite various hindrances, the Department could finally achieve a fair bit of success in implementing Vocational Education in the State but added further that sustained effort was required to move forward towards total success. He commended on the enrolment of students which was highly satisfactory and in regard to vertical mobility, he opined that the Department's efforts so far had indeed been noteworthy and the future of the students had been considered in high regard.

He also talked about correspondences' made to different Departments for absorbing students for jobs, who successfully complete their requisite course. He, then; directed the Vocational Section, HRDD, to send a copy of the said letter to be circulated for information of the concerned students.

The vote of thanks of the 1<sup>st</sup> GBM of SCVE was proposed by Shri K.N. Subudhi, Deputy Director (VE), HRDD, Govt of Sikkim.

  
**VOCATIONAL SECTION**  
**HUMAN RESOURCE DEVELOPMENT DEPARTMENT**  
**GOVERNMENT OF SIKKIM**

Ref. No.: **406/GOS / HRDD / VOC**Dated-**27/6/2006****NOTIFICATION**

In partial modification of Notification No. 328/HRDD/VOC dated 08:12:2005; the State Council of Vocational Education (SCVE), Sikkim is comprised of the following members:-

- |   |                  |
|---|------------------|
| 1. Secretary, HRDD, Govt of Sikkim  | President        |
| 2. Director, Sec, Sr Sec & Voc Edn, HRDD, Govt of Sikkim                        | Member           |
| 3. Representative, MHRD, Govt of India, New Delhi                               | Member           |
| 4. Representative, PSSCIVE (NCERT), Bhopal                                      | Member           |
| 5. Director, Dept of Commerce & Industries, Govt of Sikkim                      | Member           |
| 6. Additional Director, HRDD, Govt of Sikkim                                    | Member Secretary |
| 7. Joint Director (VE), HRDD, Govt of Sikkim                                    | Member           |
| 8. Joint Director (Exam) HRDD, Govt of Sikkim                                   | Member           |
| 9. Joint Director (E/W/N/S), HRDD, Govt of Sikkim                               | Member           |
| 10. Vice Chancellor, Sikkim Manipal University                                  | Member           |
| 11. Controller, Fin Rev & Exp Dept, Govt of Sikkim                              | Member           |
| 12. General Manager, State Bank of India (SBI), Gangtok                         | Member           |
| 13. General Manager, NABARD / NEDFi   | Member           |
| 14. Director, Directorate of Handicrafts & Handlooms (DHH, Govt of Sikkim)      | Member           |
| 15. Director, Small Industries Service Institute (SISI), Govt of India, Gangtok | Member           |
| 16. Joint Secretary (Employment Cell), DoP AR & Trg, Govt of Sikkim             | Member           |
| 17. Director, Dept of Horticulture/Agriculture, Govt of Sikkim                  | Member           |
| 18. Director, Dept of Information Technology, Govt of Sikkim                    | Member           |
| 19. Director, Science & Technology Dept, Govt of Sikkim                         | Member           |
| 20. General Manager, Sikkim Milk Corp, Govt of Sikkim                           | Member           |
| 21. General Manager, Dept of Transport, Govt of Sikkim                          | Member           |
| 22. Director, State Tourism Dev Corporation (STDC), Gangtok                     | Member           |
| 23. Principal, Industrial Training Institute, Majitar, Rai                      | Member           |
| 24. Principal, Namchi(G) SS School  | Member           |
| 25. Principal, Hee Gyathang SS School   | Member           |

**BY ORDER****Sd/**

**[C.L. Denzongpa]**  
**Secretary**  
**Human Resource Development Department**  
**Government of Sikkim**

Copy to:

1. All the above SCVE Members
2. Chief Secretary, Govt of Sikkim
3. Principal Secretary to HCM, Govt of Sikkim.
4. PS to HM/HRDD for kind information of HM/HRDD.
5. Office Copy
6. Guard File

  
**[Dr. D.P.S. Rana]**  
**Secretary, SCVE/Additional Director**  
**Human Resource Development Department**  
**Government of Sikkim Tashiling - 737 103, Gangtok**

**Report on "Orientation of Practical Examiners" held on 20 March, 2006 in respect of vocational education teachers deputed as Internal/External Examiners for Practical Examinations.**

The "Orientation Programme for 98 vocational education teachers" from 40 Senior Secondary Schools in Sikkim under the VE Programme, recently deputed as Practical Examiners at + 2stage to conduct the Practical Examinations of CBSE, 2006 was conducted in the Conference Hall of HRDD on 20:03:2006 from 1:30 p.m. onwards.

Since the Conference Hall could not accommodate all the participants at one go, two groups, consisting of 48 teachers as *Group I* and 50 teachers as *Group II* were selected. All Officers of Vocational Section of HRDD coordinated the conduct of the Orientation Programme, which was overseen by Additional Director (VE), Human Resource Development Department, Government of Sikkim.

Orientation of the 48 teachers identified as *Group I* began at 1:30 p.m. and was completed at 2:45 p.m. Thereafter, the 2<sup>nd</sup> Session of 'Orientation' of the remaining 50 teachers selected as *Group II*; began at 3:00 p.m. and was duly completed at 4:30 p.m. The Orientation Programme eventually concluded at around 4:45 p.m.

All the participants were provided with necessary information on General Guidelines for Examiners and their various responsibilities in respect of Practical Exams. This was especially compiled by Mr. K. N. Subudhi, Deputy Director (Voc Edn), HRDD, who has had immense experience regarding conduct of such Practical Exams under CBSE Exams.

All the relevant and important details for conducting practical exams and various follow up procedures to be pursued by the deputed Examiner were conveyed and explained to the participants.

Queries made by the participants were answered and described to them, so as to ensure the smooth conduct of practical examinations that had been scheduled to begin from 23:03:2006. All the participants were thankful of having being given the opportunity for participating on the said programme, whereupon they were able to address and clear any doubts in their mind.

At the end of day, vote of thanks was delivered by Assistant Director (VE), HRDD on behalf of the department. Rounding up the Programme, the participants were requested to perform their respective duties to the best of their abilities and knowledge, reminding them of the significance and importance of the duties entrusted to them in the context of our vocational students.



**AISSCE (CLASS XII CBSE), 2006 RESULTS OF VOCATIONAL STREAM STUDENTS UNDER THE VE PROGRAMME IN SIKKIM**

Information & statistics on results (+2CBSE Exams) of Vocational Stream: -

- ☉ Total nos of students (Science, Commerce, Arts & Vocational streams) appeared = **2976** (two thousand nine hundred seventy six)
- ☉ Total number of students (Vocational) appeared = **560** (five hundred sixty)
- ☉ Total number of Successful candidates = **453** (four hundred fifty three)
- ☉ Number of candidates with 70% Above = **68** (sixty eight)
- ☉ Number of candidates with 1<sup>st</sup> Division = **235** (two hundred thirty five)
- ☉ Number of candidates with 2<sup>nd</sup> Division = **150** (one hundred fifty)
- ☉ Number of candidates with Compartment = **95** (ninety five)

☉ Success Rate = **81.32%**

☉ Candidates with 70% ABOVE = 12.14%

☉ Candidates with 1<sup>st</sup> Division = 41.96%

☉ Candidates with 2<sup>nd</sup> Division = 26.79%

☉ Candidates with compartment = 17.06%

**Highest Percentage by a vocational stream student = 81%**

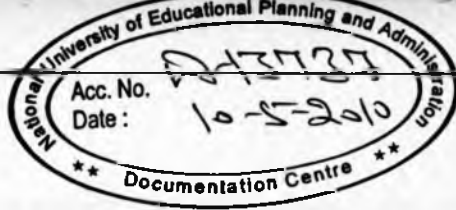
by **Sapna Pradhan**, Soreng Govt Sr Sec School, W. Sikkim in **I T Application**

**2<sup>nd</sup> highest Percentage = 80.5%**

by **Samuel Limboo**, West Point SS School, Gangtok in **I T Application**

and

by **Dil Kumar Subba**, Assam Lingzey SS School in **Horticulture**



NUEPA DC

Annexure IX



D13737

**[I] Simple Data Analysis of Results of +2CBSE Examinations of Vocational Stream Students held during March, 2006**

Name of the Govt Sr. Sec. School	Number of Vocational Stream PASS-OUTS with						Total appeared
	70% & Above	I Division [60%&above]	II Division [49%-60%]	III Division [39%-49%]	Compartment	Failed	
Assam Lingzey	1	3	4	nil	3	nil	11
Central Pendam	2	2	nil	nil	3	nil	7
Chujachen	nil	6	nil	nil	2	nil	8
Deorali (Girls)	nil	5	nil	nil	nil	1	6
Dikling	nil	19	4	nil	6	1	30
Enchey	2	5	10	nil	4	1	22
Khamdong	2	2	1	nil	nil	nil	5
Lingdok	1	2	4	nil	1	2	10
Mamring	4	10	1	nil	1	nil	16
Ranipool	10	15	2	nil	7	nil	34
Samdong	4	7	7	nil	1	nil	19
Sang	nil	5	10	nil	3	nil	18
Singtam	nil	1	nil	nil	nil	nil	1
Tashi Namgyal	1	12	2	nil	6	1	22
West Point	7	8	7	nil	2	1	25
Bermiok Tokal	1	2	nil	nil	nil	nil	3
Namchi (Co-Ed)	3	20	6	nil	6	nil	35
Namchi (Girls)	6	18	18	nil	1	nil	43
Namthang	5	6	16	nil	6	nil	33
Sadam	nil	3	7	nil	1	nil	11
Teemi	1	2	1	nil	1	nil	5
Hee Gyathang	1	3	3	nil	2	nil	9
Phodong	nil	9	4	nil	7	nil	20
Mangan	6	14	5	nil	7	1	33
Buriakhop	nil	1	nil	nil	1	nil	2
Chakung	nil	8	4	nil	nil	nil	12
Dentam	2	4	2	nil	1	1	10
Gyalshing (Girls)	nil	nil	1	nil	nil	nil	1
Hee Yangthang	1	6	2	nil	8	nil	17
Mangalbaria	2	8	8	nil	2	nil	20
Pelling	2	6	1	nil	nil	nil	9
Ravangla	nil	4	2	nil	1	nil	7
Soreng	1	8	3	nil	2	nil	14
Tashiding	1	5	nil	nil	5	nil	11
Sombaria	2	4	5	nil	4	nil	15
Yangang	nil	2	10	nil	1	nil	13
<b>Total</b>	<b>68</b>	<b>235</b>	<b>150</b>	<b>-</b>	<b>95</b>	<b>9</b>	<b>557</b>

**NOTE: Percentages are derived from 3 Electives of the Stream along-with English.**