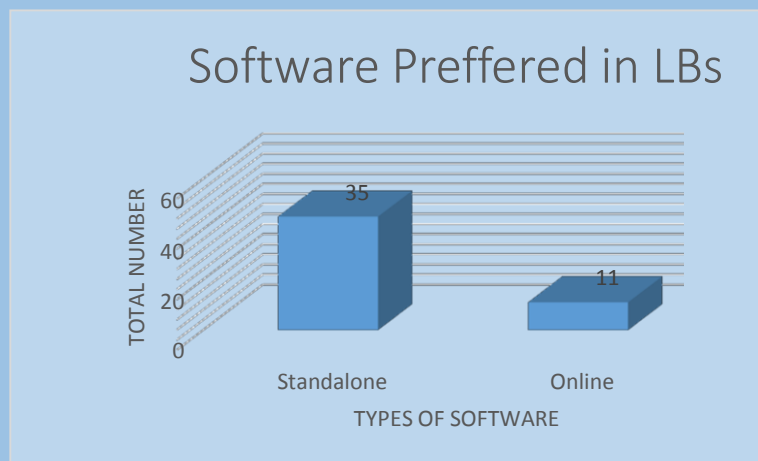




Government of Nepal
Ministry of Federal Affairs and Local Development
(MoFALD)
Local Governance and Community Development
Programme-II (LGCDP-II)



An Analysis
On
Software Uses

Prepared By:

1. Er. Parashuram Chaulagain
ICTV, MoFALD, LGCDP-II
2. Er.Om Prakash Khadka
ICTV, MoFALD, LGCDP-II

Date: Sunday, 29 March 2015

Abstract

This report is based on the information provided by Information and communication Technology Volunteers (ICTVs) of Eastern Region at DDC in LGCDP-II (Annex 1). Survey was Conducted in order to determine the types and number of Software used in Different Section of Local Bodies. Having actual data on ICT Status of LBs would facilitate the ministry to do accurate need assessment, make realistic ICT plan, and prepare adequate budget for ICT infrastructure, human resource and capacity building Schemes. It is completely online survey and forms are filled by ICTVs shared in Google-Drive (Gdrive). These Google sheet data are used to make the reports with the guidelines provided by the Regional Cluster Unit (RCU), Biratnagar.

The survey was carried out from January 11 to 18, 2015.

Acknowledgement

We would like to express our deepest appreciation to Er. Mohita Joshi, ICT Expert who gave us the inspiration to pursue the survey on "Analysis of Software Uses in different Local Bodies in Eastern Region" and guided us in this endeavour. She has been a constant source of motivation and encouragement for us. We thank her for all the initiative and zeal she filled us throughout the survey work.

A special thanks goes to our team mates, Er. Kritika Thapa (Mechinagar Municipality) and Er. Saurav Kumar Mishra (Biratnagar Sub-metropolitan), who coordinated with us to finalize the survey form.

Also, we would like to thank to Gdrive, which provided us the medium to conduct the survey with such ease.

At last but not the least, we would like to acknowledge the crucial role of the Eastern Region ICT Volunteers who co-operated, coordinated and contributed their time to complete this survey.

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1. Software Assessment

This report is entirely Fact based on the software used and required in the Local Body, All of the 13 DDC corresponding to RCU Biratnagar has been included here. But due to unavailability of ICT Volunteering in Siraha DDC, no information of Siraha has been mentioned below. The report has been detailed by the information described below by different topics which had been included in the survey.

a. List of Most Used Software

There are sixteen (16) different types of software used in 12 District Development Committee (DDC). DDC FAMP and WBRS are used by every local bodies, whereas Group SMS and VERS are used by least number of DDCs.

S.N.	Name of Software	No of DDC
1	Accounting Software	1
2	Inventory Software(Store)	1
3	NGO Desk	1
4	NGO's Profile	1
5	Rajaswa Lekha	1
6	Social Security	1
7	VERS	1
8	Vital Registration	1
9	Group SMS Service	2
10	SSNP/MIS	2
11	StoreAccount(IMIS)	2
12	PMIS	3
13	Darta Chalani	4
14	DPMAS	7
15	DDC FAMP	12
16	WBRS	12

Fig-1: List of most used software in ascending order

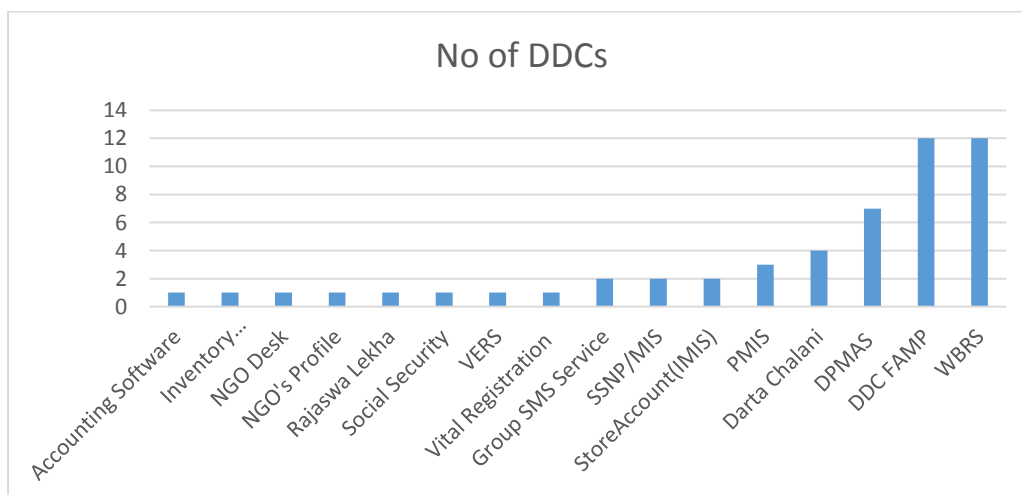


Fig-2: Bar Chart displaying the software used corresponding to the number of DDC

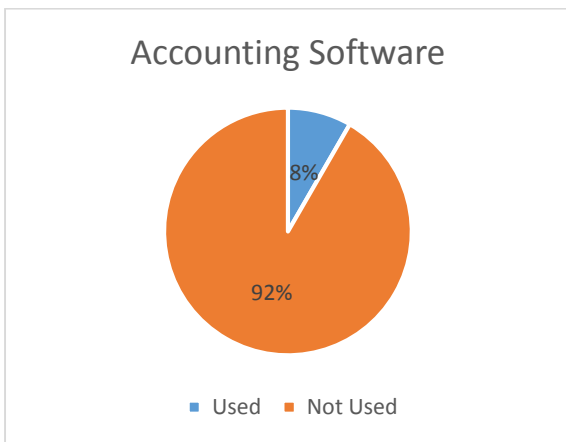
Remarks:

1. According to the information provided by Er. Sagar Prasad Pandey the software Darta Chalani and DPMAS are not effective use in DDC Morang.

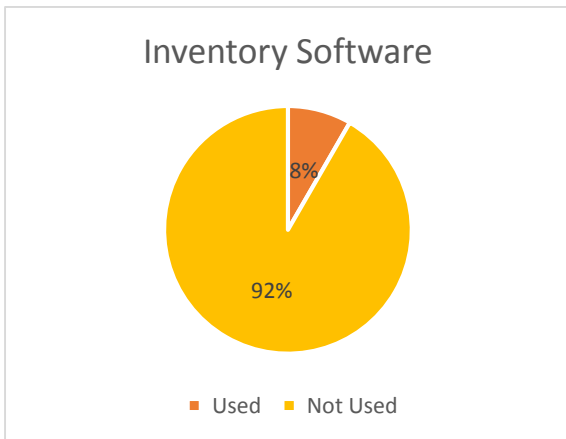
2. According to the information provided by Er. Laxman Pokhrel the software Darta Chalani and Vital Registration are not effective use in DDC Jhapa.

All together 16 different software tools are being currently used in in 12 DDCs. Below is the visual display (Pie Chart) of the software listed out in Ascending order of their use in the Local Body, i.e. the once least used is mentioned in No# 1 and the one that is used mostly is mentioned after that.

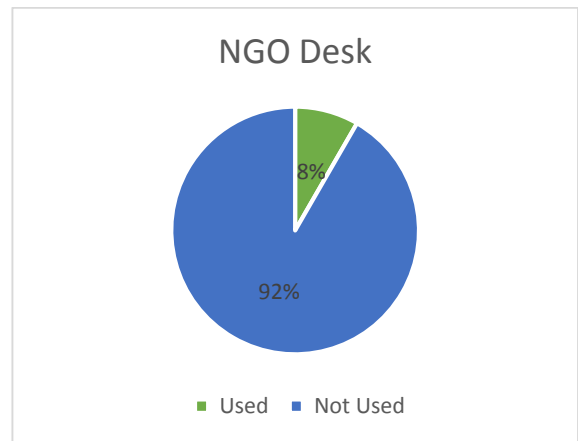
1. Accounting Software



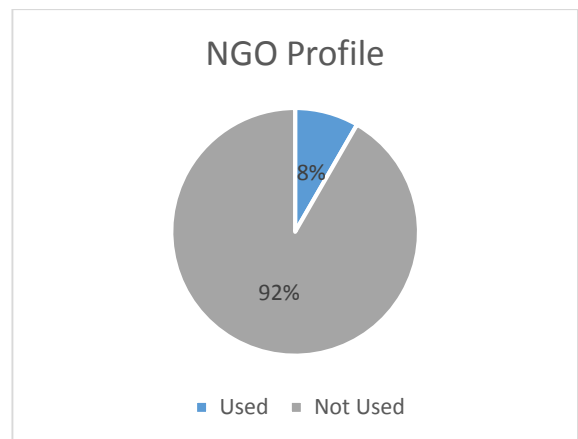
2. Inventory Software(Store)



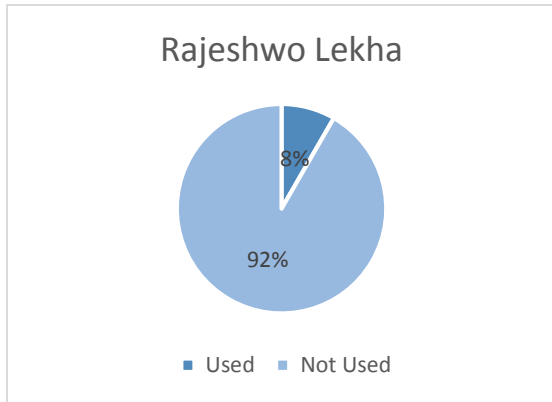
3. NGO Desk



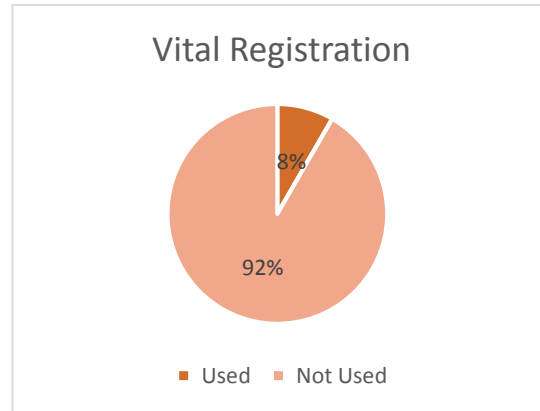
4. NGO Profile



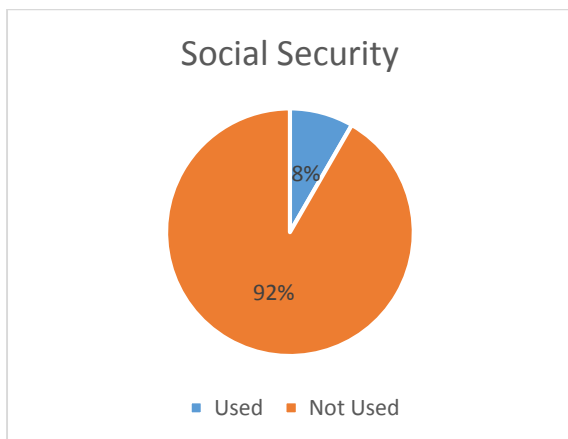
5. Rajeshwo Lekha



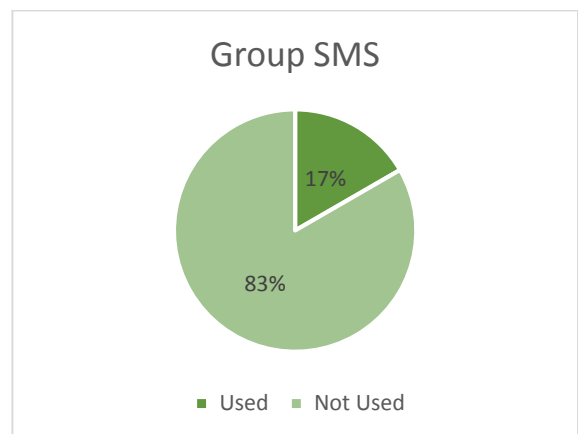
8. Vital Registration



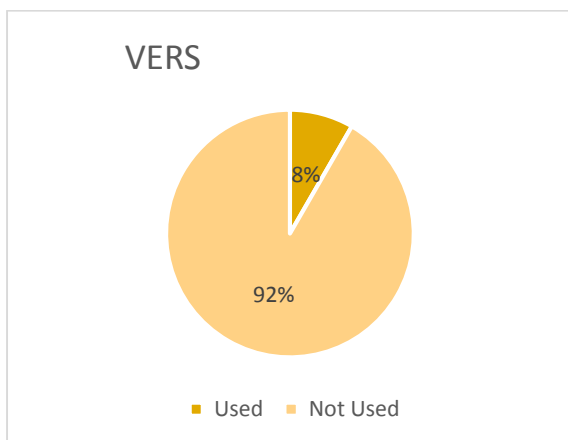
6. Social Security



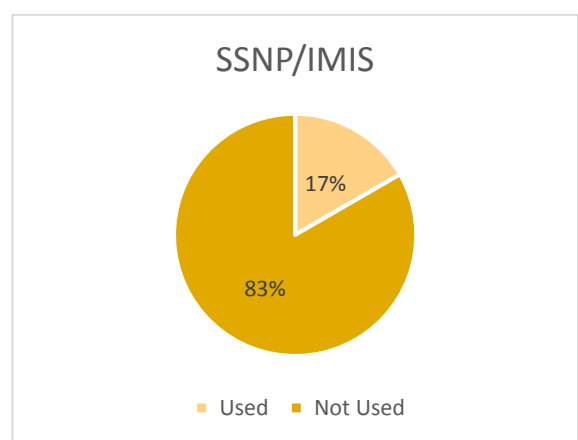
9. Group SMS



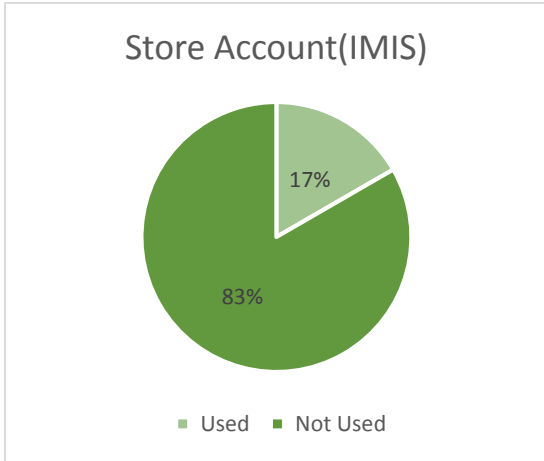
7. VERS



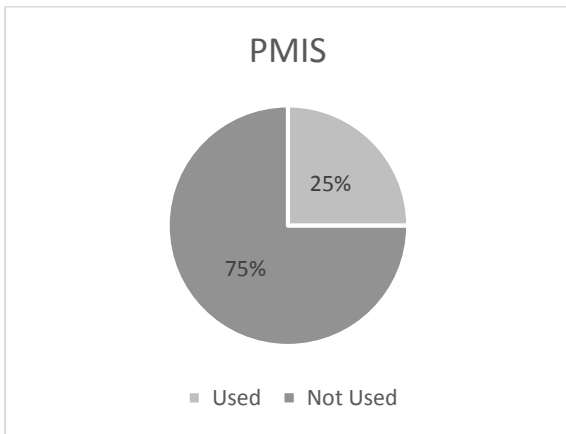
10. SSNP/IMIS



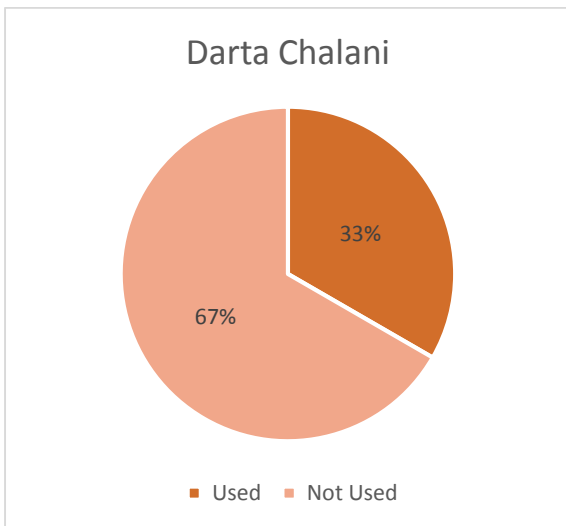
11. Store Account(IMIS)



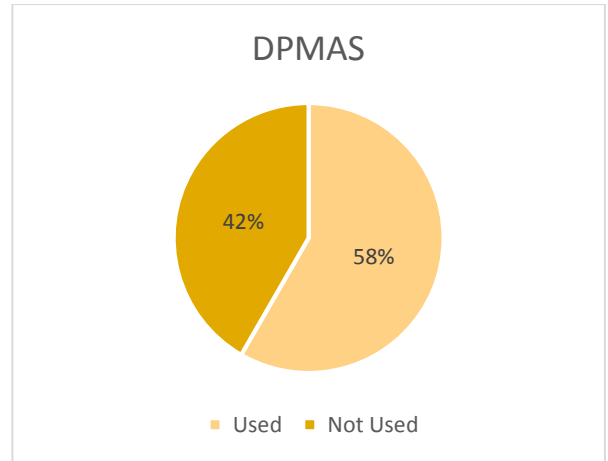
12. PMIS



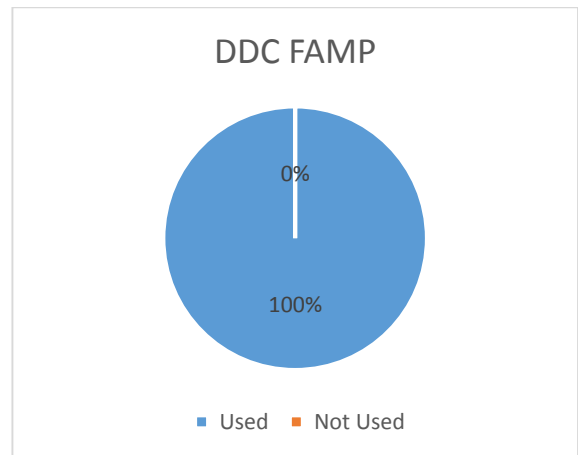
13. Darta Chalani



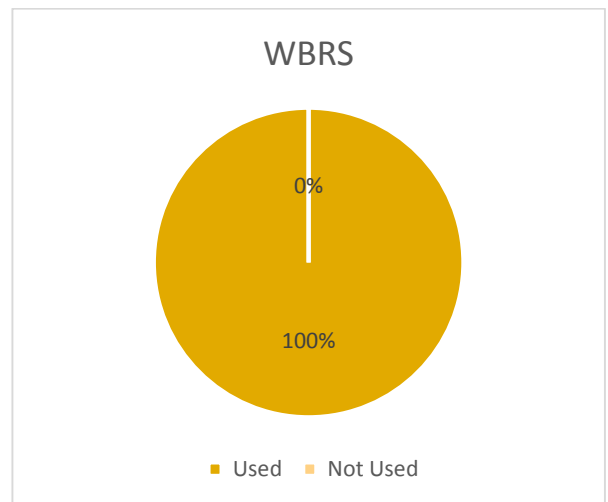
14. DPMAS



15. DDC FAMP



16. WBRS



b. DDC Vs number of software

All the DDC use DDCFAMP and WBRS, with high number of uses, while not all but most of the DDCs use DPMAS and PMIS

The table below displays the TOTAL NUMBER OF SOFTWARE used in the LB, and Fig:4 , displays the Bar representation of this table.

Name of DDC	No of Software
Taplejung	2
Dhankuta	3
Panchthar	3
Sankhuwasabha	3
Saptari	3
Terhathum	3
Udayapur	3
Bhojpur	4
Sunsari	4
Morang	6
Ilam	9
Jhapa	9

Fig 3: Table showing the name of DDC vs no of software

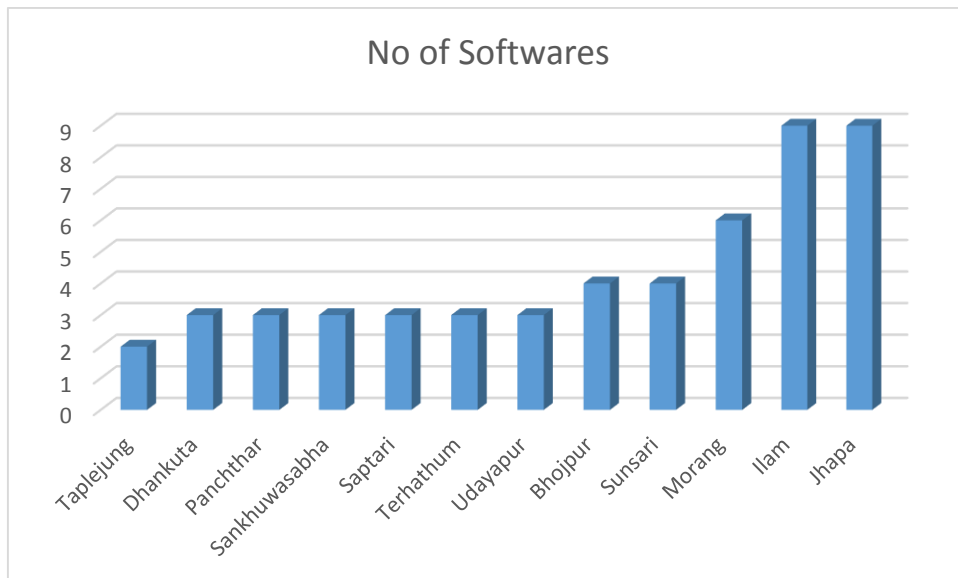


Fig 4: Column chart showing name of DDC and no of Software.

c. Vender Used by DDC for Software

Most of Software uses by DDC are owned by the Government of Nepal. But some of the software were bought from external vendors, the table and bar chart below gives more information about the numbers of external vendor whose software has been used in the DDC.

Name of Vender	No of Software
Others	1
Geo Soft	1
Janaki Technology pvt. ltd	1
NGO Federation of Nepal	1
Softake Nepal	1
Sangrilla	11
GoN	36
Total	52

Fig 5: Table for Vender vs no of software

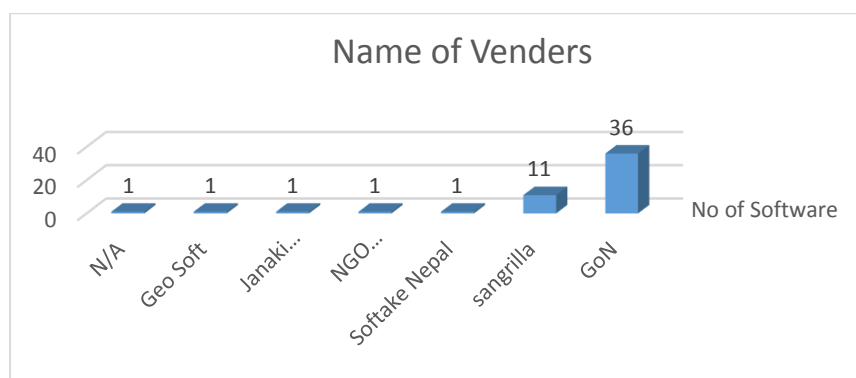


Fig 6: Column Chart with no of software and vendors

d. Average Purchase Cost of the Software

Most of the software owned by the GoN are free of cost to use in the DDC. However details of other software bought from external vendor is given below:

S.N	Name of Software	No of DDCs	Average purchase cost(Rs.000)	Remarks
1	VERS	1	0	GoN
2	SSNP/MIS	2	0	GoN
3	DPMAS	7	0	GoN
4	DDC FAMP	12	0	GoN
5	WBRS	12	0	GoN
6	Darta Chalani	4	37.5	
7	Group SMS Service	2	66.5	
8	Inventory Software(Store)	1	100	
9	Vital Registration	1	130	
10	NGO Desk	1	150	
11	NGO's Profile	1	150	
12	Social Security	1	150	

13	StoreAccount(IMIS)	2	150
14	PMIS	3	150
15	Accounting Software	1	N/A
16	Rajaswa Lekha	1	N/A

Fig 7: average purchase cost of software

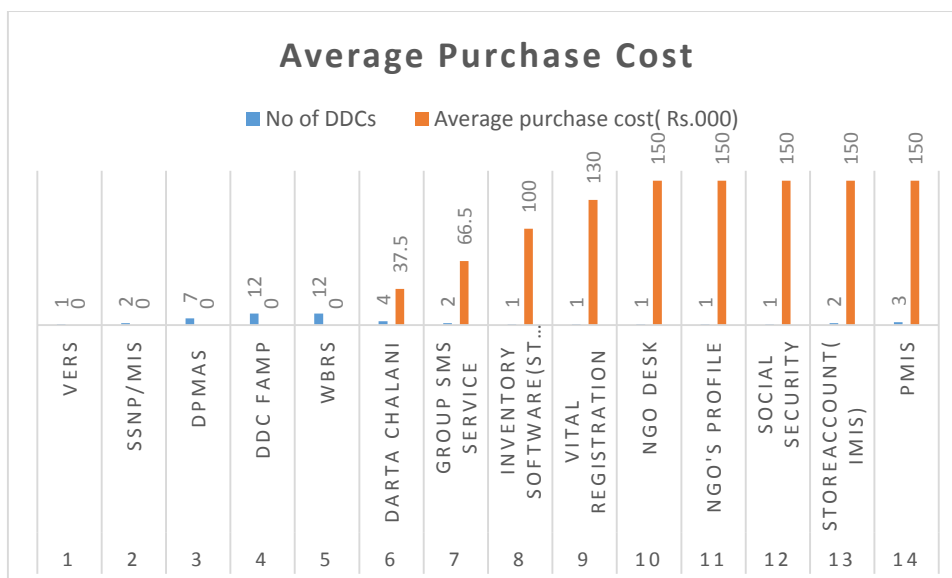


Fig 8 : Average Purchase Cost of Software with number of DDC

Remarks: Since the purchase cost of accounting software and Rajeshwo Lekha is not available, so these software are not displayed in the graph.

e. Software Renewable Cost

Most of the offline software do not required to be renewed, like desktop application. Some of them are Governmental. The table below shows the software and their renewable cost of 16 software in 12 DDCs.

S.N.	Name of Software	No of DDCs	Average Renewable Cost(in 1000)	Remarks
1	VERS	1	0	GoN
2	SSNP/MIS	2	0	GoN
3	DPMAS	7	0	GoN
4	DDC FAMP	12	0	GoN
5	WBRs	12	0	GoN
6	Darta Chalani	4	0	
7	Vital Registration	1	0	
8	NGO Desk	1	0	
9	Social Security	1	0	
10	StoreAccount(IMIS)	2	0	
11	PMIS	3	0	
12	Rajaswa Lekha	1	0	
13	Group SMS Service	2	10	

14	Inventory Software(Store)	1	75	Including PMIS
15	NGO's Profile	1	N/A	
16	Accounting Software	1	N/A	

Fig 9: name of software with renewable cost

f. Licensing period of each software

The survey yielded that most of the software did not need to be renewed and hence no licensing period were given.

g. Most Used Type Software

Types of software such as Standalone, Online or Integrated were surveyed, the Chart below shows the quantity of different types of software used in DDC.

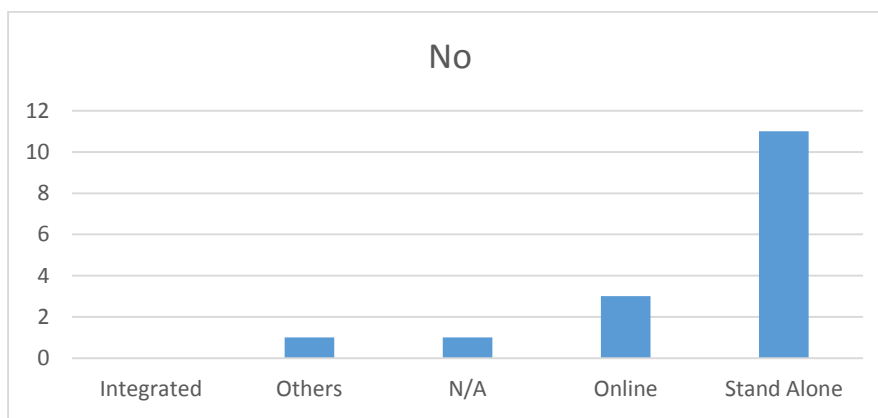


Fig 10: Bar- Chart for type of software

S.N.	Name of Software	Type of Software
1	VERS	Stand Alone
2	DPMAS	Stand Alone
3	DDC FAMP	Stand Alone
4	Darta Chalani	Stand Alone
5	Vital Registration	Stand Alone
6	NGO Desk	Stand Alone
7	Social Security	Stand Alone
8	StoreAccount(IMIS)	Stand Alone
9	PMIS	Stand Alone
10	Rajaswa Lekha	Stand Alone
11	Inventory Software(Store)	Stand Alone
12	WBRS	Online
13	Group SMS Service	Online
14	NGO's Profile	Online
15	SSNP/MIS	Others
16	Accounting Software	N/A

Fig 11: Table for type of software

h. Average Effectiveness of the Software

While performing the survey on effectiveness of the survey on DDCs, we give the choices on Satisfactory, Dissatisfactory and N/A, depending upon choices chosen by ICTVs the graph below shows the effectiveness.

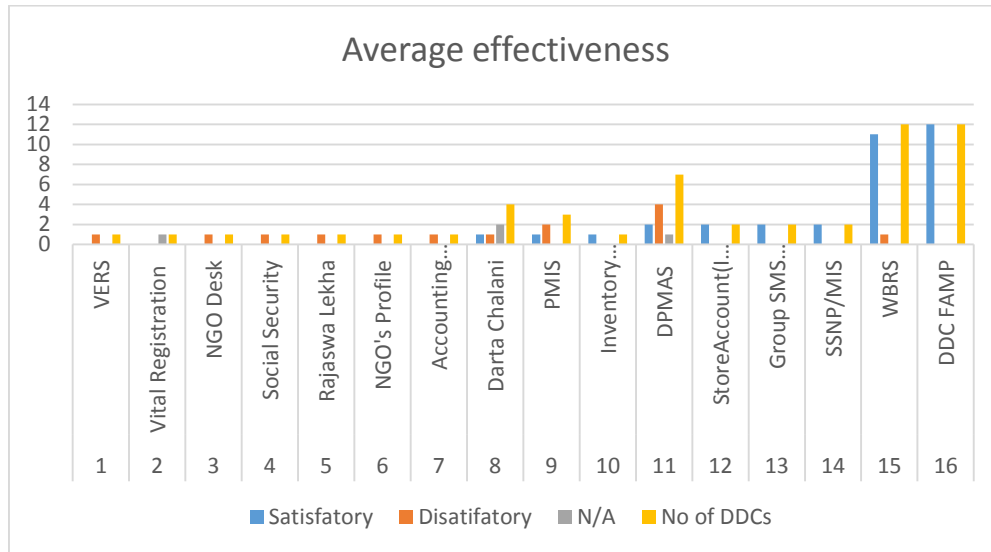


Fig12: Column chart showing the effectiveness of software

i. Relation of Software and Section it is Used

Table below shows the different software and section it is used in.

S.N.	Name of Software	Section It is used
1	Accounting Software	Account Section
2	DDC FAMP	
3	Darta Chalani	Administration Section
4	PMIS	
5	SSNP/MIS	
6	DPMAS	Community Development Section
7	NGO Desk	
8	NGO's Profile	
9	Group SMS Service	Information Section
10	WBRS	Planning Section
11	Inventory Software(Store)	Store Section
12	StoreAccount(IMIS)	
13	Rajaswa Lekha	Taxation Section
14	Social Security	Vital Registration Section
15	VERS	
16	Vital Registration	

Fig 13: Table for software and section

j. Backup Facility of Current Software in LBs

The software data backup system at DDC have been explained in table below.

WorkStation	Name of Software	Is Software Data Backup Done?	If Yes, Where?
Bhojpur	DDCFAMP	No	N/A
	WBRS		
	DPMAS		
	Group SMS Service		
Dhankuta	WBRS	No	N/A
	DDCFAMP	Yes	N/A
	DPMAS	No	N/A
Morang	WBRS	No	N/A
	DDCFAMP	No	N/A
	SSNP/MIS	Yes	Data Server
	Darta Chalani	No	N/A
	PMIS	Yes	Local Disk
	StoreAccount(IMIS)	No	N/A
Ilam	WBRS	No	N/A
	DDCFAMP		
	DPMAS		
	StoreAccount(IMIS)		
	Rajaswa Lekha		
	PMIS		
	Darta Chalani		
	NGO Desk		
	Social Security		
Jhapa	Inventory Software(Store)	Yes	Local Disk
	PMIS	Yes	Local Disk
	WBRS	No	N/A
	DPMAS	No	N/A
	DDCFAMP	Yes	Local Disk
	Darta Chalani	No	N/A
	Vital Registration	No	N/A
	NGO's Profile	Yes	Data Server
	Accounting Software	No	N/A
Panchthar	WBRS	No	N/A
	DDCFAMP	Yes	Local Disk
	Darta Chalani	Yes	Local Disk
Sankhuwasabha	WBRS	No	N/A
	DDCFAMP	No	N/A
	SSNP/MIS	Yes	Data Server
Saptari	WBRS	No	N/A
	DPMAS	No	N/A
	DDCFAMP	Yes	External HDD
Sunsari	DDCFAMP	Yes	External HDD
	WBRS	No	N/A
	VERS	Yes	External HDD
	Group SMS system	No	N/A
Taplejung	WBRS	No	N/A
	DDCFAMP	Yes	Local Disk
Terhathum	WBRS	No	N/A
	DDCFAMP	Yes	Local Disk
	DPMAS	Yes	Local Disk
Udayapur	WBRS	No	N/A
	DDCFAMP	Yes	Pendrive
	DPMAS	Yes	Pendrive

Fig14: Table showing the data backup of DDC software

Remarks: According to ICTV at Dhankuta DDC the DDCFAMP have been backup but not mention where it is.

2. Software Planning

This section describes the software that are not yet present In the LB, but the LB has felt the need of such software to ease their daily work actions.

a. Maximum Number of Software that is required by all DDC

Maximum number of software is demanded by DDC Panchthar and Taplejung (i.e. total 7 types). Whereas DDC Dhankuta and Bhojpur required the least number of Software as shown below on table and pie-chart.

Name of DDCs	No of Software
Dhankuta	2
Bhojpur	2
Sankhuwasabha	3
Terhathum	3
Ilam	3
Jhapa	3
Sunsari	4
Udayapur	5
Saptari	6
Taplejung	7
Panchthar	7
Morang	No Records found

Fig 15: Table for maximum number of software that is required by DDC

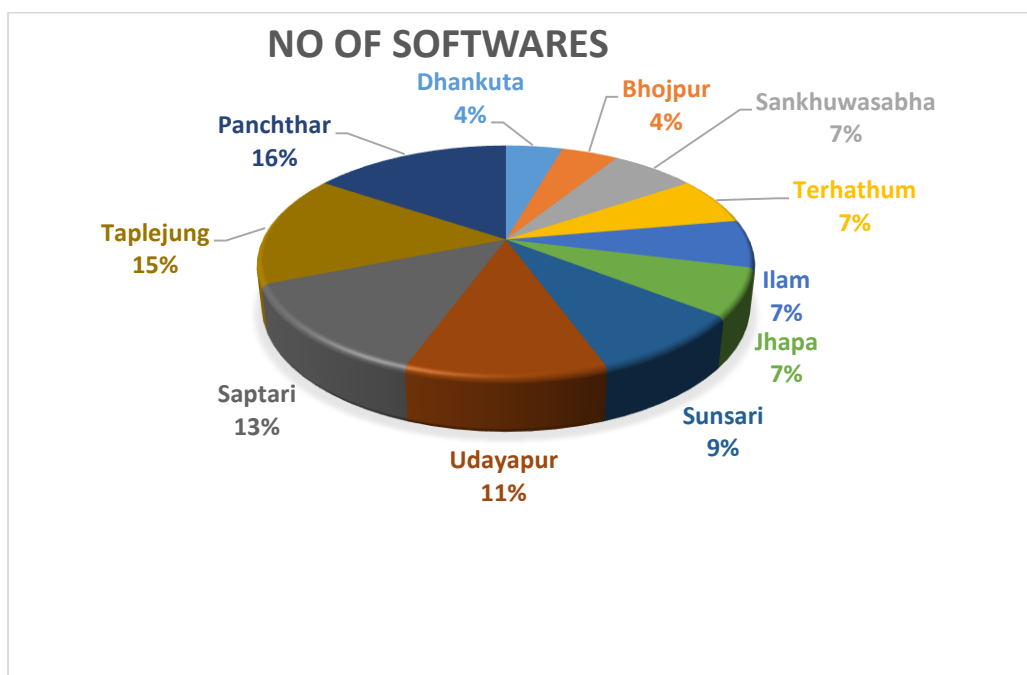


Fig 16: Pie Chart showing software names and its volume that is required by DDC

Remarks: No information was received from Morang DDC in this regard.

b. Most Preferred Software

The most preferred type of software is Standalone, the second most preferred is Online. In order to make daily activities easier, the LB preferred Standalone, whereas for Reporting Purposes, Online type of software was preferred.

S.N.	Types of Software	Preferred Number
1	Standalone	35
2	Online	11

Fig 17: Table showing most preferred software

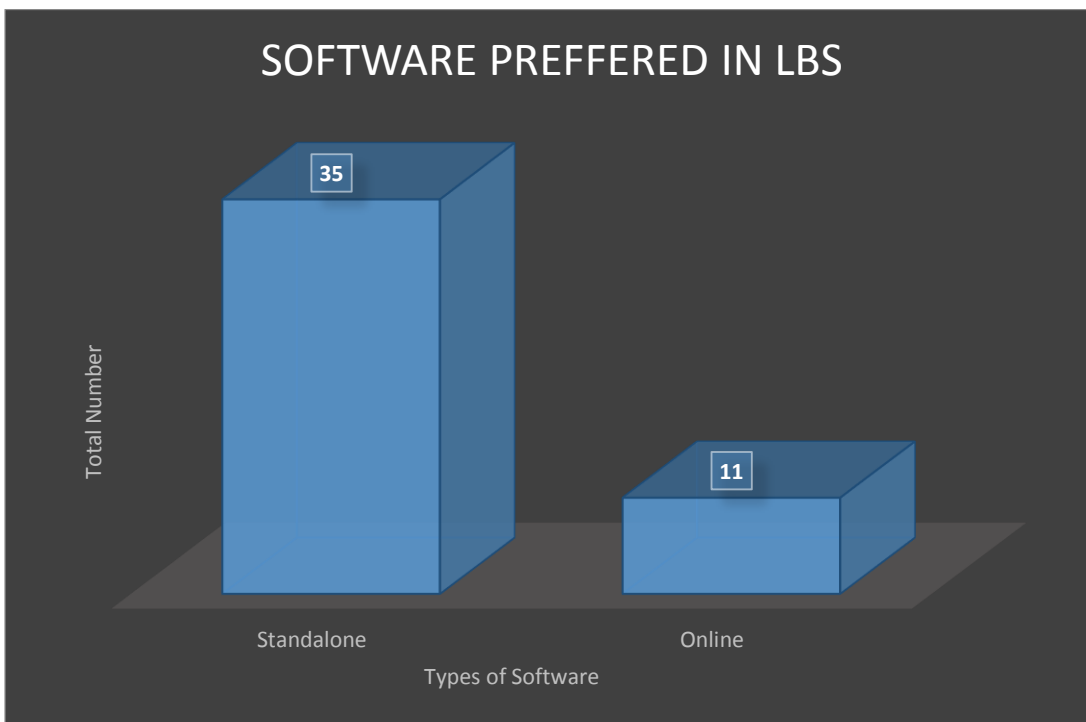


Fig 18: Column chart showing most preferred software

Remarks:

1. There is no planning regarding Morang DDC.
2. Offline System Software will be better to implement in Local Bodies due to Limited Resource availability.

c. Software that are REQUIRED only

The software required during the digitization of documents and to make the daily activities easier, and those which was required by the DDCs are shown in type of software and DDCs name.

S.N.	Name of Software	DDC Name	Count
1	DPMAS	Taplejung	1
2	Tax Record	Jhapa	1
3	PMIS	Panchthar,Udayapur	2
4	NGO Record	Panchthar,Saptari	2
5	Darta Chalani	Saptari	2
6	Planning Software	Dhankuta,Jhapa,Saptari, Terathum	4
7	Vital Registration	ILam,Panchthar,Saptari, Taplejung, Terathum	5
8	Inventory Control System	ILam,Panchthar,Sankhuwasabha,Sunsari, Terathum,Udayapur	7

Fig 19: Table which show software required only in DDC

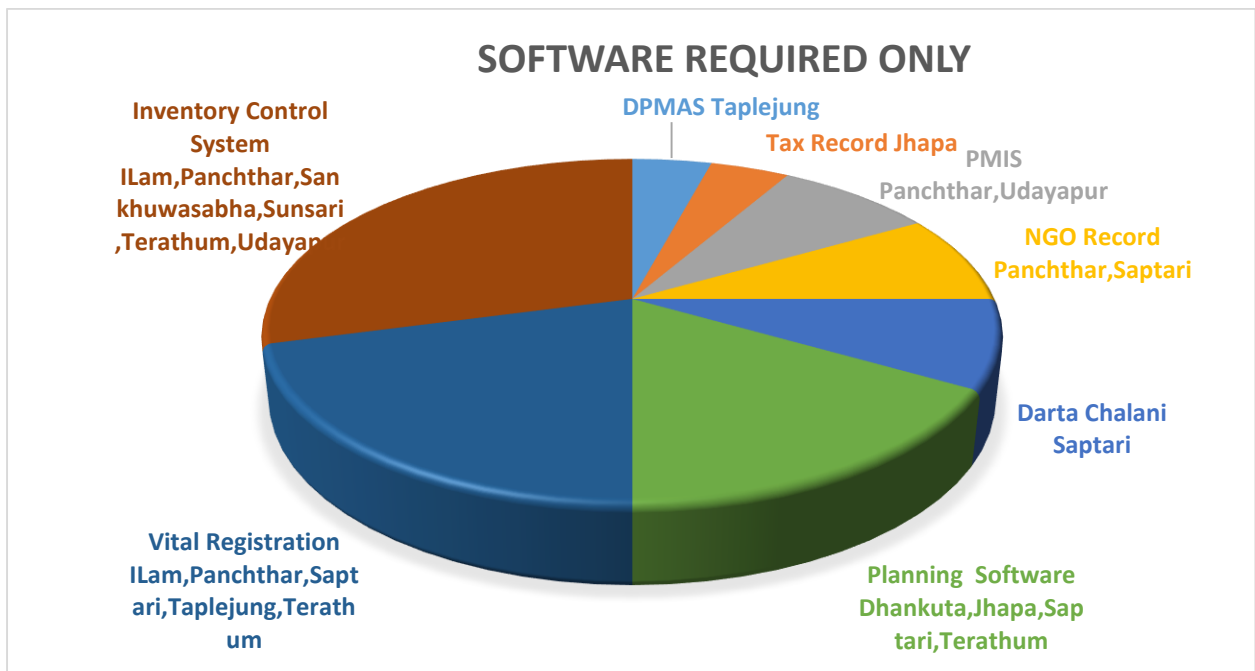


Fig 20: Pie chart that shows software required only in DDC

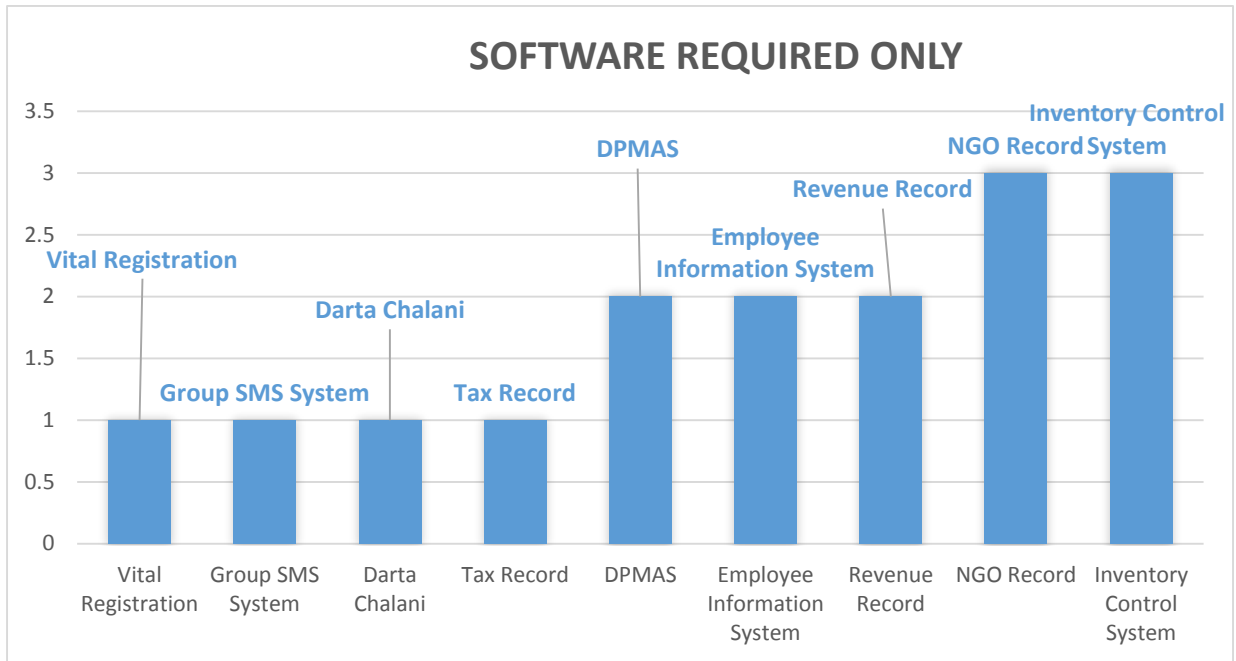


Fig 21: Bar chart that shows software required only in DDC

d. Software that are VERY EFFECTIVE

The software categorized as VERY EFFECTIVE And required in the LB are given below:

S.N.	Name of Software	DDC Name	Count
1	Vital Registration	Udayapur	1
2	Group SMS System	Taplejung	1
3	Darta Chalani	Bhojpur	1
4	Tax Record	Sankhuwasabha	1
5	DPMAS	Pachthar,Sankhuwasabha	2
6	Employee Information System	Sunsari,Taplejung	2
7	Revenue Record	Panchthar,Sunsari	2
8	NGO Record	ILam,Taplejung,Udayapur	3
9	Inventory Control System	Bhojpur,Saptari,Taplejung	3
10	Accounting Record	Dhankuta,Saptari,Jhapa	3
11	Planning Software	Panchthar,Sunsari,Taplejung,Udayapur,ILam	5

Fig 22: Table which show software Very Effective in DDC

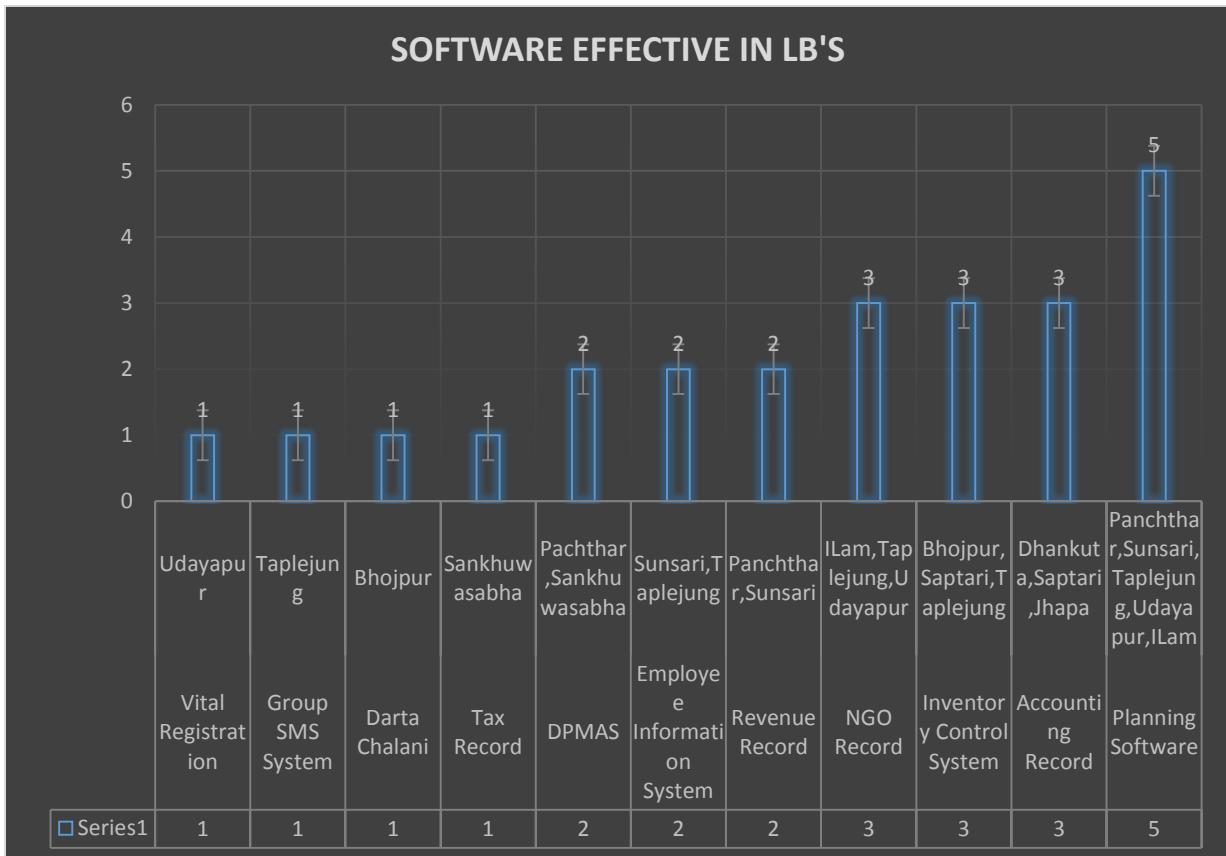


Fig 23: Bar chart that shows software Effective in DDC

Remarks: 1. Planning Software is most important for all Local Bodies.

2. Though DPMAS was implemented in most of District for some time, later on it was on number use due to lack of understanding, its importance and clarity.

e. Software with DATA BACKUP

It is very important for software to have their data backed up in an external location, so that any unwanted / sudden crashes may be handled with ease, and that data are not lost, hence data backup is very essential for all software. The table below describes the software that have been planned to introduce Data Backup facility. The requirements and feasibility to store these data are explained in the table below.

DDC Name	Software	Data Backup
Bhojpur	Darta Chalani	External HDD
	Inventory Record Keeping	
Dhankuta	Accounting Record	Data Server
	Planning Records	Local Disk
ILam	To Keep NGO Records	Data Server
	Inventory Control System	Data Server
	For Vital Registration	Data Server
Jhapa	Planning Records	Data Server
	Tax Records	Data Server
	Accounting Records	Data Server
Panchthar	Planning Agreement billing and records	Data Server

	Revenue Billing and Records	Data Server
	Vital Registration	Data Server
	NGO Records and registration	Data Server
	Personnel Information System	Local Disk
	Inventory Records	Data Server
	DPMAS	Data Server
Sankhuwasabha	Tax Records	Data Server
	DPMAS	Data Server
	Inventory Records	Local Disk
Saptari	Vital Registration	Data Server
	Accounting Record	Data Server
	Planning Record	Data Server
	NGO Records and registration	External HDD
	Inventory Control System	External HDD
	Darta Chalani	External HDD
Sunsari	Revenue Billing and recording	Data Server
	Inventory database system	External HDD
	Planning records and database system	Data Server
	Employee Information System	Data Server
Taplejung	Planning Records	External HDD
	Vital Registration	Local Disk
	Personnel Information System	Local Disk
	NGO Records and registration	Local Disk
	Inventory Records	Local Disk
	DPMAS	Local Disk
	Group SMS System	Data Server
Terhathum	Inventory management	Local Disk
	Vital Registration	Data Server
	Planning software	Data Server
Udayapur	To keep planning records	External HDD
	To Keep NGO Records	External HDD
	To Inventory Control(Jinsi)	Pen drive
	For Vital Registration	Data Server
	To Keep personnel records	Data Server

Fig 24: Table which shows software with data back up

Remarks:

1. Data Server Technique for Backing System File play an important role in all local Bodies and will be fruit full for long terms.

f. Average Result of Data Back Up

Different Software's	Data server	External HDD	Local Disk	Pen drive	Grand Total
Inventory Management	2	3	3	1	9
Accounting Record	3	0	0	0	3
Planning Records	5	2	1	0	8
To Keep NGO Records	2	2	1	0	5
For Vital Registration	5	0	1	0	6
Tax Records	2	0	0	0	2
Revenue Billing and Records	2	0	0	0	2
Personnel Information System	2	0	2	0	4
DPMAS	2	0	1	0	3
Group SMS System	1	0	0	0	1
Darta Chalani	0	2	0	0	2
Grand Total	26	9	9	1	45

Fig 25: Table which shows Average Result of Data Back Up

Conclusion

This report has been created in order to introduce the use of software in Local Bodies, after a careful survey of every local body with the help of ICT Volunteers placed in the LB. The data is accurate to its content and gives the real picture of use of Software in LB. With this report, the details of the software such as the vendor, software, licensing information, Status of the software, Budget, Effectiveness, software that are urgent and effectively required in Local Bodies are mentioned with the supporting data and charts for the users to be easier to read and understand. After performing survey in the Current software used in Local Bodies and the software that is required in Local Bodies, we have come to a conclusion that LBs are highly motivated towards the use of the software. Further, they have realized that the software has made their work easier and accurate, therefore, LBs are open to changes in order to digitize their daily activities.

Reference

1. https://survey_software_DDC

ANNEX 1

S.N.	Name of ICTV	Workstation
1	YADAV SHRESTHA	Bhojpur
2	RAJESH MAHARJAN	Dhankuta
3	SAGAR PRASAD PANDEY	Morang
4	OM PRAKASH KHADKA	Ilam
5	LAXMAN POKHAREL	Jhapa
6	SUSAN BASKOTA	Panchthar
7	MILAN CHANDRA BHANDARI	Sankhuwasabha
8	ARUN KUMAR SAH	Saptari
9	ANUPAM PAUDEL	Sunsari
10	CHHIRING GURUNG	Taplejung
11	KISHOR KHATIWADA	Terhathum
12	PARASHURAM CHAULAGAIN	Udayapur