



b) Honey & Bee Keeping

- 1) *Product*
- 2) *Production and Collection*
- 3) *Marketing*
- 4) *Sale and Distribution*
- 5) *Gender Equality*
- 6) *Support Mechanism*
- 7) *Issues and Concerns*



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ACRONYMS

CBOs	Community Based Organizations
CCBs	Citizen Community Boards
CCBs	Citizen Community Boards
CDG	Chitral District Government
CDG	Chitral District Government
CEO	Chief Executive Officer
CIADP	Chitral Integrated Area Development Programme
COO	Chief Operating Officer
COs	Community Organizations
FGDs	Focus Group Discussions
ICDP	Integrated Chitral Development Programme
IDIs	In-depth Interviews
KPK	Khyber Pakhtun khwa
LGO	Local Government Ordinance
LPs	Livelihood Programs
LSOs	Local Support Organizations
NGOs	Non-Government Organizations
PRC	Pakistan Research Council
TOR	Terms of Reference
VC	Value Chain
VCA	Value Chain Analysis
VOs	Village Organizations
YSDO	Young Star Development Organization

ACKNOWLEDGEMENT

The Value Chain Assessment Studies were sponsored by CIADP, a project of Thrive Pakistan. The purpose of this assignment is to identify the key product of Chitral and neighbouring valleys, the potential of these products with associated issues. The studies will also provide an insight of these products and key recommendations to boost their brands and sales for an improved livelihood of the locals.

We would like to take this opportunity to convey our sincere thanks to the Thrive Management, Mr. Aazir Ayaz Mr. Asfandyar Khan and his team in Chitral for their valuable support, encouragement, cooperation and constructive criticism throughout the duration of this project. In addition to this, we would like to extend our sincere gratitude to the members of the LSOs, Local Supports Organization including ICDP, YSDO, QASADO and BLSO that provided excellent support and input in various ways.

Last but not least, we would like to thank all the virtual resources, including project, institutional, organizational and other websites consulted for guidance during the preparation of these assessments.

We have put all our effort into organizing this document as an error-free product, with due acknowledgements to sources we have consulted. Any errors that remain are our own.

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BACKGROUND

This chapter is dedicated to the description this chapter is dedicated to description of profile of Chitral district, covering its demography, culture, environment, the administration and the state of donor interventions.

Chitral is home to over one dozen different cultures with more than 14 languages spoken, yet with multiple dialects. It has an extremely peaceful environment which is evident from the coexistence of diversified cultures on one hand and admixes of religious beliefs on the other. For example approximately 70% of its population consists of Sunnis and 30 % of Ismailis with Kalash being a small non-Muslim minority. Chitral is rich in natural resources but its non-replenished utilization has put it under sustained pressure and hence the region is prone to frequent natural disasters. The district carries low health and education indicators which add to its developmental backwardness.

By the same token, Chitral District Government (CDG)'s technical capacity is non-facilitative to its proactive development agenda and also the vision. However, the level of citizen participation and mobilization remains high which is largely indebted to civil society engagement. The civil society, which houses 500 Citizen Community Boards (CCBs) functions under the Local Government Ordinance (LGO - 2001). The LGO2001 aims at engaging the citizens in the process of local development.

The experts expect Chitral to become a regional connector in coming years. Thus it will be linked with Central Asian States, Afghanistan and China through the channel of Northern Areas. The upcoming Lowari Tunnel will also unleash its

nationwide connectivity. Such developments and those brimming out of these developments will offer several (opportunities to CDG in terms of preservation and strengthening of its peculiar natural resources, culture, economics and infrastructure. The negative effects of such developments if any would certainly be undermined by the overwhelming positive influences of the same.

However, the developments will not take place effortlessly; instead the development to take place will demand partners to pool in their resources, both technical and financial. This congregation of resources would help capacitate CDG and the people of Chitral so as to cast its overarching impact on the endeavors concerning poverty alleviation and other similar right- based developments.

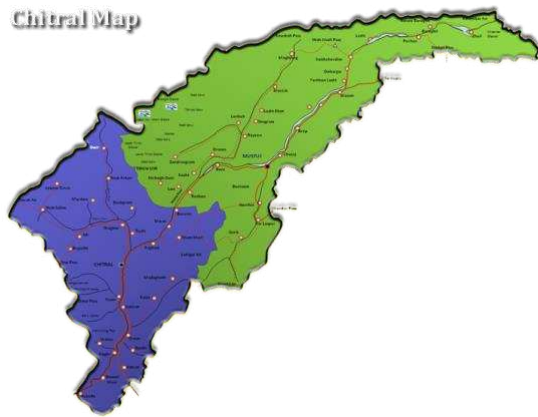
Chitral has been facing challenges like inadequate infrastructure, minimal of cultivable land (2%), poor market access and inadequate access to extension services which are in turn limited as well. At the same time these are some of the key factors which are constraining growth of agriculture sector in the area. Although Chitral is suitable for a variety of high value crops but the area has not been able to capitalize on its cultivable potential due to above noted challenges and predicaments. Similarly, these challenges have taxed and degenerated the capabilities of Chitralis and have at the same time exacted a severe toll on the resources, economic growth and development agenda of the Chitral district.

About Chitral Integrated Area Development Programme (CIADP):

The Chitral Integrated Area Development Programme (CIADP) has adopted a multidimensional intertwined approach to build the resilience of the people of Chitral and its institutions to safeguard their interests, environment and culture from the expected influx of capital, migrants and the resultant pressure on its natural resources.

CIADP in its last more than 4 years' operations has undertaken several NRM and Non-NRM interventions e.g. Social Farm Forestry, Mini Orchards, Wheat & Maize Demo Plots, Backyard Poultry, Livestock Extension Workers Trainings, Fruit Processing, Honey Bee keeping etc. Most of CIADP activities are undertaken by women and are major source of improving livelihoods of the marginalized.

Chitral Map



The mutual aim of participatory development and collaboration in Chitral took two years to get crystallized. In this regard, the Norwegian initiative to facilitate this process has not only been locally appreciated but has also been well received by other donors that have expressed their interest to join the process. The development programme under discussion was funded by the Norwegian Embassy.

Introduction of Chitral

Chitral, a princely state (merged with Pakistan in 1969) with its unique socio-cultural and religious characteristics, is the largest district in Khyber Pakhtun khwa (KPK) province of Pakistan in terms of geographical stretch as depicted in the map in figure 1. The local people of this area speak Khowar language which is also known as Chitrali

(Haserodt, 1996). The valley of Chitral has a captivating and enchanting landscape which is surrounded by the mountainous ranges of Hindukush which also include part of Pamir Mountains (Screenland & Lie shout, 1995). As shown in figure 1, the west border of Chitral valley touches Afghanistan, Wakhan Corridor lies in the north and Chitral is the only district of Pakistan which remains isolated from the rest of the country for several months due to heavy snowfall at the Lowari Pass during the winters.

Cultural Landscape

Life in Chitral dates back to around 4,000 years. Chitral occupies a unique place in Pakistan by enjoying religious and cultural coexistence where more than 14 languages are spoken and several dialects are used. There are more than a dozen ethnic groups. Due to its rich history and linkages with different parts of the world, the culture of Chitral is very rich in terms of the mores which have high traces of the Tatar, Turks, Mongolian and Greek cultures (Nüsser, 2001).

Chitrali society consists of two very different social and cultural groups, the Kalash and the Khow. Culturally, the Chitrali women remain engaged in making dairy products, honey bee keeping, picking fruits, doing kitchen chores, gardening, producing silks, making woolen handicrafts, carpets, sweaters, surband, Chitrali caps, and waistcoats. An analysis of their lifestyles also reveals that there prevails gender equality in the region. The population of Chitral includes Muslims, non-Muslims, Ismaili's and Kalash people (Marsden, 2008). With respect to the use of natural resources by the local people, the non-replenished utilization of abundant natural resources leads Chitral to become victim of extreme disasters. The development indicators have also rated the area low in health and education facilities.

Importance of Women in the Chitrali Culture

Historically, women have enjoyed a high status in Chitrali society. This fact can be proved by one of the old saying of the locals, that is, "Khowistanauratabad" meaning the land of Kho is prosperous owing to the ability and skills of its

women. Another famous local saying that reinforces the fact is; “harchamoto tan hunar” (each finger has a skill). The fort Chitrali women have ability to effectively use the finances and to better manage the resources; one of the resources is locally known as Madiri. The pages of history unfold that women have inherited property and managed large estates. During the reign of Chitral’s former rulers, the Mehtars for example, the women of the ruling family played an important role in statecraft.

The southern region of Chitral is not favorable for the involvement of women in development initiatives mainly due to prevalence of strict cultural constraints. However, the women living in upper Chitral enjoy the liberty to participate in development of the area. To address the extreme poverty in Shishi and Birir in Chitral district, various Livelihood Programs (LPs) are being run by various organizations. But at the same time, owing to limited access to the area relative to other cities of Pakistan, many organizations find it hard to provide their developmental services.

The landmark Lowari tunnel of Chitral has connected the valley with the rest of Pakistan reducing the distance of Chitral and Dir by about 50 %. This tunnel, after its complete operation, will help to link Pakistan to various international borders like Afghanistan, Central Asian States and by far to China (PRC Engineering, 1988). This will certainly open doors to economic development but at the same time will also be a threat to socio-cultural values of the area, since the evils of the advance international cultures will also inadvertently creep in.

The limited agricultural land; that too constrained due to the vagaries of weather, poor infrastructure and lack of trade linkages is the major cause of under-development and persistence of poverty in the area. Historically, the locals have been facing these problems since ages. On the other hand, the high value fruits, dry fruits, handicrafts, gems, stones, therapeutic

plants and honey—are the products which if developed on modern lines can turn around the destiny of Chitralis. This dream can only come true if the pertinent development process is properly planned and executed and then the local farmers are linked to the major national and international markets. Similarly, there is a dire need to build the capacity of the people in general which will certainly help in developing Chitral even further and faster. However, there are various challenges which tend to hinder the development process but their impact can certainly be minimized, if not eliminated.

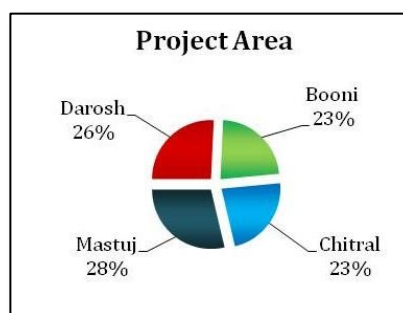
There are no monsoon rains in the valley and hence the weather is dry throughout the year. The economy of Chitral is mainly based on natural resources and people search for their livelihood mostly in forests. Unfortunately Chitral is prone to natural disasters like terrible snowfall and flash floods; therefore its isolation during the winter season casts adverse effects on every aspect of life. This may include; restricting the mobility of labors, disrupting agricultural exports, meddling with imports of grain, livestock feed and agricultural inputs. To add fuel to fire, the scarcity of agricultural land and poor irrigation facilities restrict landholding of small level farmers, who are plenty.

It is pertinent to highlight the pivotal role that civil society has played in mobilizing the inhibitors and in the development of the area. In a sense one can proclaim the civil society has literally complemented the district government’s endeavors that fell short of meeting developmental needs in the hands of scarcity of resources, and expertise. Today some 500 Citizen Community Boards (CCBs) under Local Government Ordinance (LGO) 2001 harnessing their resources in the development process. So much so, the civil society is helping the district government in providing health and education facilities to the citizens especially when it comes to be providing the same at their door steps.

BRIEF ABOUT THE ASSESSMENT AREA

There are different valleys and areas in Chitral¹. The district of Chitral comprises of two Tehsils, 24 Union Councils and 99 Village Councils.

The sampling technique was kept uniform across the four areas so that a consistent analysis of value chain could be ascertained. The representation of men and women was also ensured at all level.



1. Chitral

The only district which is cut off from rest of the Pakistan is Chitral. This is due to the closure of Lowari tunnel during heavy snows. Main source of food in this area is livestock. It is estimated that about 700,000 head of livestock (75% goats and sheep) are present in the district. Forests cover 70,045 ha in the area Chitral and Daroosh area, out of which 25,000 ha is considered suitable for commercial harvesting.

Despite widespread hunting by the local people, the remote mountain valleys of Chitral are home to a considerable variety of wildlife.



2. Daroosh

It is a small town of Chitral District as shown in figure. It is located at an altitude of 1,100 m (3,609 ft.). This town has been under governor rule since 1860s. In 1870, Shahzada Kohkan Baig was the Governor of Daroosh. After that Shahzada Shahi Mulk took over as Governor of Daroosh from 1870 to 1892. The time when Shahzada Shahi Mulk was the governor of Daroosh, the valley was extended from Broze to Chaqansarai (in Afghanistan).



¹ The word Chitral in the report will represent the Upper Chitral, Lower Chitral including all valleys.

3. Mastuj

Mastuj valley lies in between latitudes 30° - 2 to 36° - 57 N and longitudes 72° to 37° - 58 E. It has a population of more than 34000 individuals distributed in more than 4500 houses. About 85% of the population depends upon forests and rangeland resources including herding of livestock. It is drained by Yarkhun (Mastuj) and Laspur rivers. The climate of the area is arid temperate to alpine in the upper reaches with mild summers and snowy cold winters. The valley is snowbound from November to March in the lower



reaches while upper parts are covered by snow till June. The scanty rainfall is mostly received from December to March along with snow. This botanically unexplored valley is rich in traditional knowledge.

4. Booni

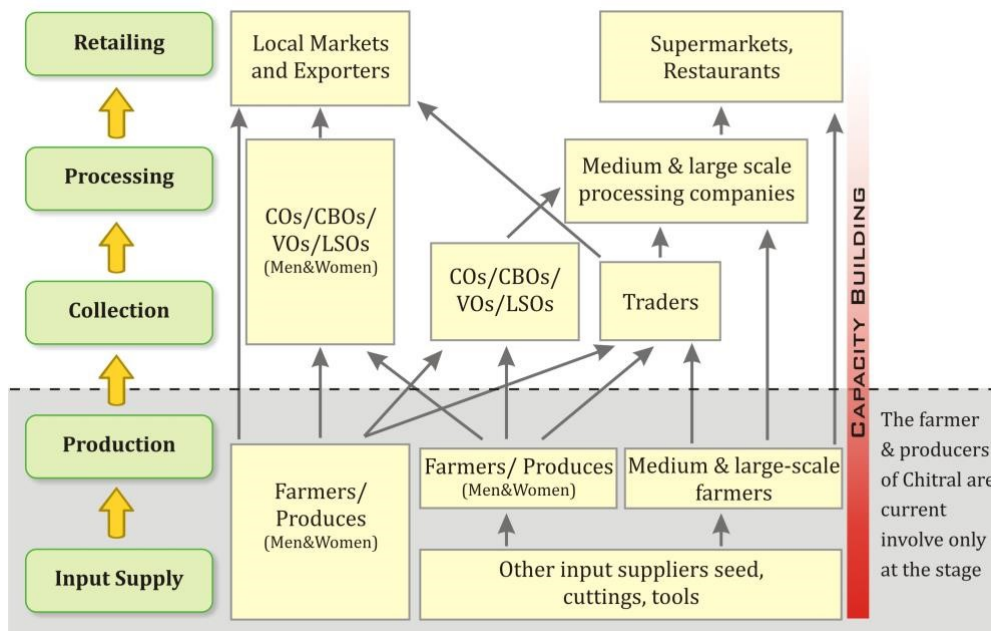
Booni is a town and Tehsil of Chitral District. It is located at $36^{\circ}17'0$ N $72^{\circ}31'0$ E with an altitude of 2359 meters (7742 feet). The main villages include Mastuj, Reshun, Parwak, Kuragh, Charunoweer. Booni is situated 80 kilometers to the north of Chitral town. It is famous for the fruit-laden orchards where for example apricot, mulberry, grapes, peaches and apple trees are abundant. The area is also endowed with fresh water, grasses and cool shadows. The area is also famous for honey. Nevertheless, the medicinal plants of Booni attract researchers and tourists equally.



Value Chain Analysis (VCA) is defined as continuous development of strategic learning at enterprise level, where the components of the chain process range from the step of obtaining inputs and finally delivering the finished good to the end consumer. In VCA an enterprise is not considered a single, isolated and independent entity rather a part of a long integrated chain

which has its linkages with all the stakeholders. In our context, the Value Chain Studies based on VCA serve as an effective tool since they would be helpful in designing and devising development plans, all converging to a single objective: exploring strategic alternatives for poverty reduction.

Ideal Value Chain Map



ASSESSMENT METHODOLOGY

Research Methodology

The VCA Research Process was designed to serve as a guideline for generation and analysis of data for the Project. The research process was divided into two main components, namely, the Desk Information Review and the Primary Data Collection. Several sub-components and activities were identified under each stage was guided through the TOR as follows:

Desk Information Review

The information is extracted from previous research results, especially 2007 Chicken survey conducted by 13th Young Graduate; under the guidance of Dr. Yang Sain Koma. The secondary data were used for the report which stemmed from CEDAC's published action research documents.

After looking at the points of analysis in the TOR, we screened the existing data which had not been necessarily collected through our surveys or our Focus Group Discussions with the producers.

The research tools were developed on needbase.

Sampling

The sample consisted of all stakeholders like the producers, traders, exporters, LSOs, NGOs and Government officials, and nevertheless the consumers. The VCA process was clearly delineated after conducting a two-day' session in Chitral city. After that, the LSOs and their enumerators were briefed and trained by research team about value chain concept and how to use the tools. It was ensured that the LSOs and their enumerators completely and clearly understood the concept of VC and also the tools.

(The sample/mapping of the FGDs and IDIs is attached as annex 01)

For quantitative data, the enumerators were asked to conduct IDIs with producers and consumers of their respective territories. For qualitative data, the LSOs were required to conduct FGDs with shopkeepers, exporters, NGOs and government officials. The FGDs with producers, traders and LSOs were however conducted by the research team in all four areas: Chitral, Daroosh, Booni and Mastuj.

The judgmental sampling technique was used to reach the respondent of producers, traders, LSOs, shopkeepers, NGOs and government officials. The research team members moved out to remain vigilant about collection of quality data. During these interfaces, the respondents were cross-questioned where the objective was to find out whether they professionally knew about their own business or not. The respondents were those ones who showed great interest in the VCA.

Development of IDI and FGDs Tools:

The IDI and FGD tools were designed after screening the existing reports, articles and other relevant materials about Chitral and its products. As discussed below, the research tools were designed for the producers of honeybee, fruit/agricultural product, handicraft, medicinal plants and gems and jewelry from Chitral, Daroosh, Booni and Mastuj; and also for consumers from the same areas.

FGDs Tools: The FGD tools were developed to gain information from the producers, traders, exporters, LSOs, NGO and Government officials: detail needed as given in case of IDIs. The FGD tool was developed to find out people engaged in VC of products, beneficiaries of VC of products, training capacity building, marketing links, branding, facility level for availability of VC product, institutional support, health issues, middle-men's role, quality, demand and supply levels, price system, and problems of men and women involved in VC product.

Further, it was also aimed to dig out problems of exporters (and importers), role of exchange rate, problems of logistics, government quotas and access to international markets. The nature and significance of LSOs and NGOs was also explored through these FGDs. Nevertheless, the role and limitations of government was also brought to light and how can the concept of PPP (public private partnerships) evolve. Added by AP

IDI Tools: The IDI tool was developed for honey producers in order to find out nature, types, quality, production, packing, machinery tools used, transport facility/issues and other relevant problems related with the product of honey. The IDI tool for fruit/dry fruit producers was designed to seek information about nature, types of fruits, nature of customers, market links, machinery/tools used, issues, women

involvement, and institutional/state support. The IDI tool for handicraft was developed to get data about types of handicrafts, marketing strategy, demand and supply situations, price system and the government support. The IDIs for gems/jewelry was developed to find out information on types of jewelry/gems, nature of buyers, communication channels, demand and supply situation, machinery/tools availability, training, packing and women's role. Finally, the IDI of medicinal plant was conducted to get information on types of plants, weather impact on them, their availability, communication issues, demand and supply forces, packing, training problems, and women's role. The IDI of consumer was meant to find out buying behavior, price mechanism, product availability, packing, and packaging and satisfaction levels.

VALUE CHAIN FRAMEWORK

OVERVIEW OF BEE KEEPING

Beekeeping is a very noticeable profession in Chitral since ages. It has been found that about 20 years back Southern Chitral was the main source of honey. The honey acquired from Chitral was mainly used for therapeutic purposes. Study of the literature revealed various reasons for Chitral being considered as safe and likely target of beekeeping and honey production. The main reason is that Chitral is comparatively warmer than other parts of the region. Secondly, there is abundance of natural forests that provide natural habitat for various bee species. Finally, the flora on which bees feed remains available for 6-8 months.

1. Product

In Chitral district including the areas of Daroosh, Booni, Mastuj and Chitral city's surrounding area; honey beekeeping is one of the major VC products. Both men and women are involved in the production of this product. Interestingly, some producers are traders too, in other words, they produce and sell it in the local market. Depending upon their financial and handling capacities, people have hive-boxes for producing honey. Normally inventory of such boxes range from minimum 2 to maximum 20. Hashoo Foundation is the main source for provision of boxes, honey bee and hives for this business. Bee-keepers sell the honey from Rs 600-900/kg to the middle man/shopkeepers. The Foundation also buys the honey from these producers.

According to the literature available, there are two types of honey bees which are kept in Chitral.

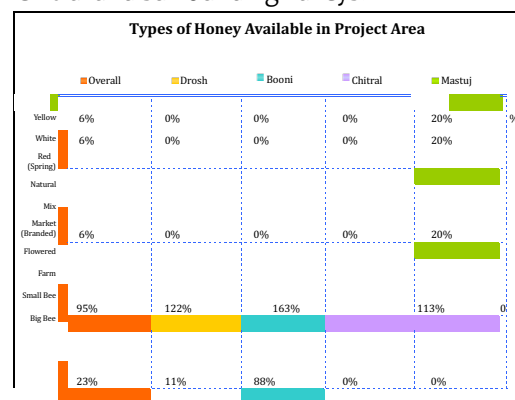
Apis Cerena

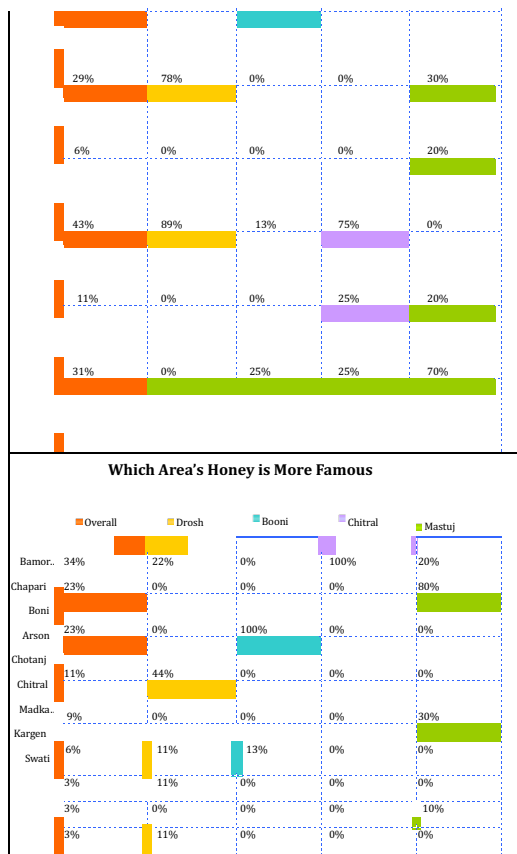
The history of wild bee or mountainous bee is so old that it is difficult to know about its origins. In olden times people used honey as a curing of different diseases when there were no medicines, people still prefers local honey on colonial honey. The wild bees are found in southern area of Chitral where natural forests are in abundance, the area consists of DomunGool, Ursoon and Kalash valley in lower Chitral. The wild bees mostly use old pine trees and caves for making hives.

Apis Melifera

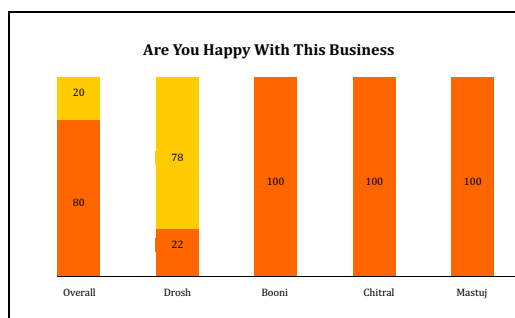
This European species was introduced in Chitral 1990, for the first time. Since then these species have spread widely across the valley and become a good source of income and employments. Now-a-days thousands of people are associated with bee farming and running a good business.

The two tupe of bees produce a wide range of honey-types. Following local categories were identified by the local producers in Chitral and surrounding valleys:





Each area of Chitral has a specific category of honey which is due to the type of flora available in the area. The Baoriat is famous in Chitral; Chapari (Local Name) has good production in Mastuj while the Booni Honey is famous in Booni. Moreover, the profession of Bee keeping is source of livelihood for many Chitralis. Those associates in honey business are found to be very happy across the board: Booni, Chitral and Mastuj express total satisfaction, while 78% of respondents reported unhappiness with this business. Main reasons for this are appended in the table 1.



The majority of the producers are happy working in this sector except Daroosh. Their reason was stated to be the production and availability of flowers. The Daroosh's mountains are mostly dry and full of mineral, marble and stones. The required raw material i.e. flowers is not available in the amount which is required for the profitable business.

When reasons for dissatisfaction were explored, lack of market linkages comes out as the chief reason.

needs to be handled to reduce dissatisfaction.

2. Production, Collection & Process

Profession of Beekeeping in Chitral as Livelihood

Beekeeping is widely recognized as an income generating activity. Apart from income generation, the beekeeping also offers multiple benefits, such as:

- It supports agricultural activities through facilitating processes for example cross pollination and improves crop and seeds yield

- It facilitates healthy linkages between biodiversity (insects and plants) towards sustainable livelihoods and it has role in conservation as well

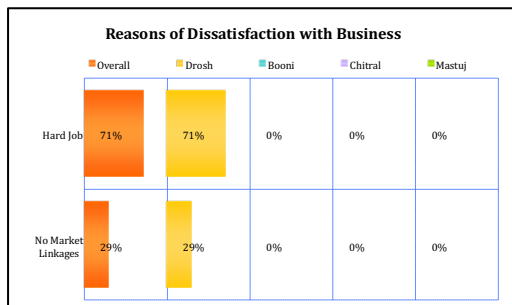
As a business, it is also a low-investment and low-input enterprise that directly generates economic gains for the beekeepers and integrates well with agriculture that forms the main economic activity for communities living in the rural areas. Beekeeping is easy profession as it may be practiced by men, women, and youth

It is a vital sector, if developed properly may play a part towards poverty reduction and enhancing the quality of life. The sector has

a great potential for enhancing income in rural areas to support sustainable development, especially considering the different value chain players of honey beekeeping.

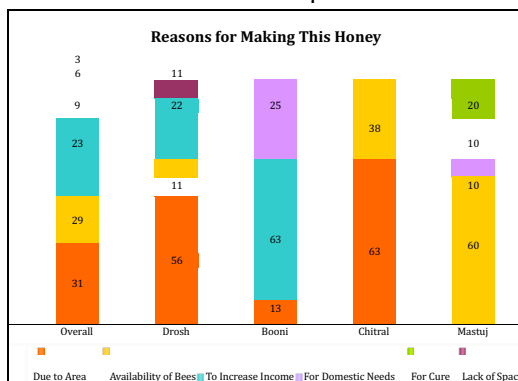
Value-Addition in Beekeeping

The main source of value-addition is the bee itself. It was necessary to find out which type of honey produced is best and generates best

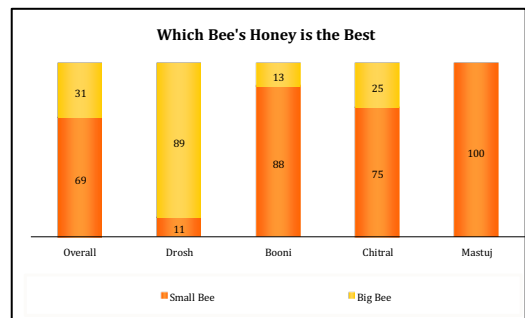


Lack of linkages is the capacity issue that profits.

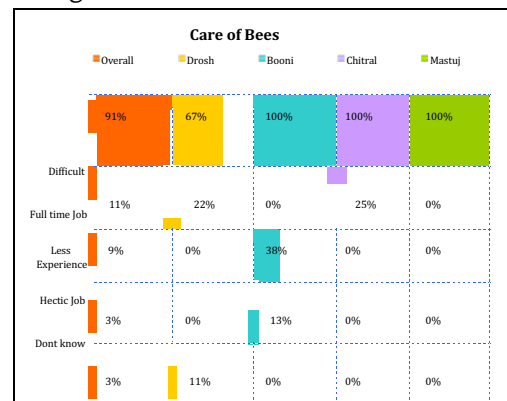
There are two main Bees identified by the producers making honey in all four areas. The Mastuj is totally depended on small Bee while Booni and Chitral have more production from small bee but they also use the big bee. Drosh is rated as high using big bee for honey production. The reason again is the climate and availability of flow and environment for the specified bee.



Overall 31% link the production of honey to the availability of bee-types in their areas. Their choice is nature-determined. 23% are motivated by the need to generate income and 9% produce honey for domestic use followed by 6% for medicinal needs. There are however

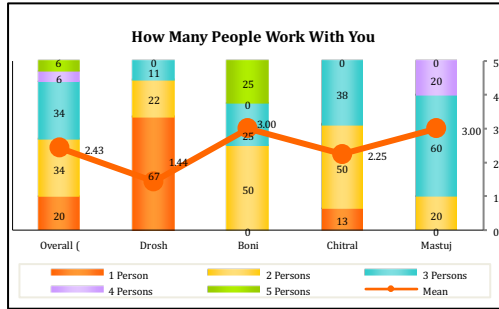


vital difference across regions: For Mastuj producers, bee-availability dominates their decision (60%), where as those in Booni are drive by income generation (63%) Taking care of the primary source of value-addition, the honey bee, is found to be difficult across all regions.



Lack of proper experience and knowledge makes care-taking difficult as cited by 38% respondents in Booni. It is interesting to note that Booni producers are also driven by income generation as stated above. Their response here therefore highlights the need for capacity building particularly for those

who produce honey for income generation.

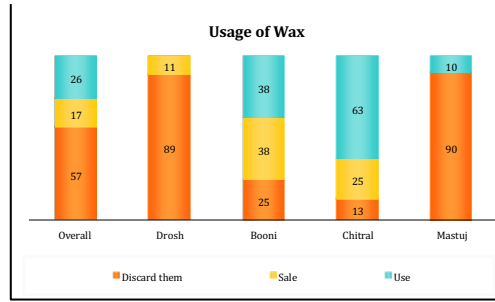


There is a range in number of people handling one Honey-Bee unit (with multiple hives). The range is from 2 to 5 persons.

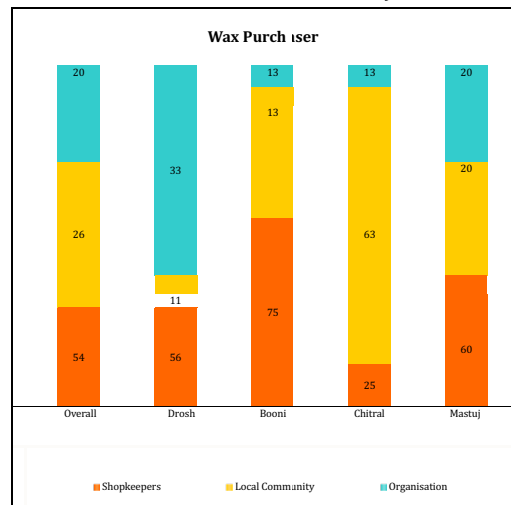
These individuals are mainly the house members, friend and siblings who help each other in maintaining the hive and collection of honey.



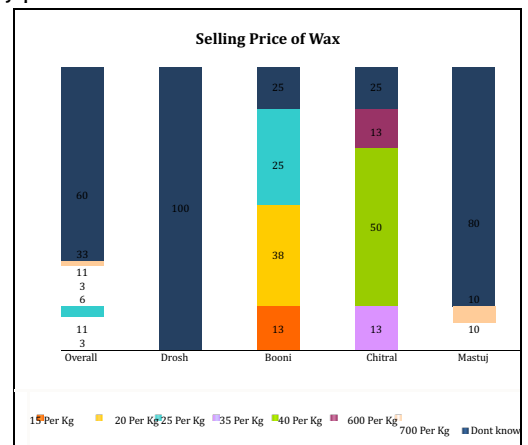
Sharbat (syrup), dawa (medicine), wax and oil are the main by-products for beekeepers. The highest rating is the use of honey as alternate of sugar in drinks and teas. The honey producers in Chitral make good use of wax as all of them (100%) produce it for themselves or sell it in the market. However, the value of wax is greatly lost on producers from other areas, which either discard wax as waste or consume it personally.

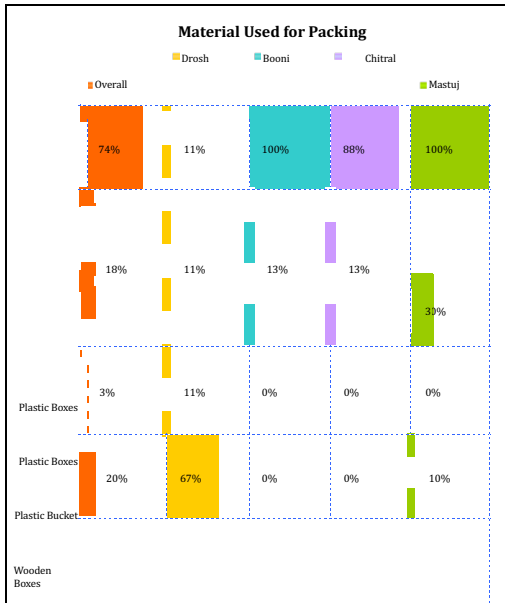


Wax is purchased by local shopkeepers, community and organizations, indicating that most of it is consumed locally.

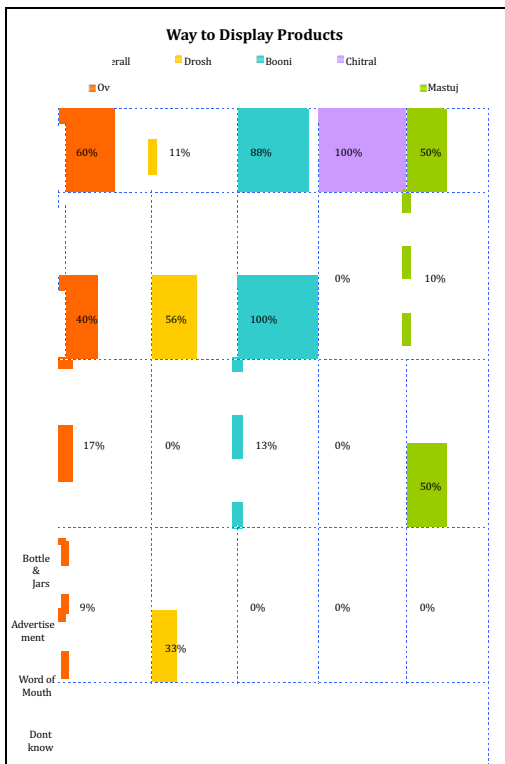


A wide variation in price is noticed from PKR 15-40 for low quality wax and PKR 600-700 for good quality by-product. However, the most revealing finding is that an overall 60% of all respondents, 100% in Drosh and 80% in Mastuj DO NOT know the price of the wax they produce.



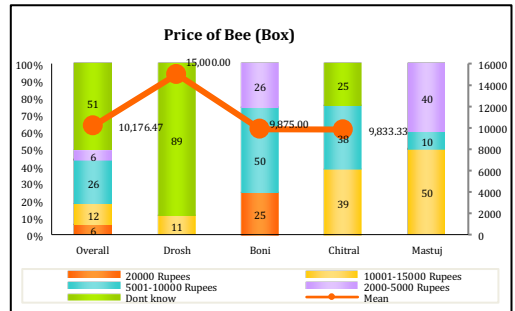


There is no specific material is used for packing. The plastic bottle is mainly in used by all the producers. Some producer also mentioned plastic bags boxed and wooden boxed for the packing. The wooden boxes are usually used to store plastic and glass bottles. However the quality of packaging is very low when compared with the packaging in honeys available in retail stores of major cities of Pakistan.



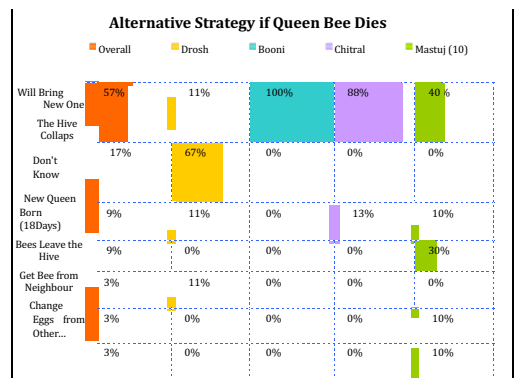
No such display is available to display the product except the bottles and jars are paced on the tables and shelves. They also place advertisement e.g. “Khalis Shahad (Pure Honey)” on the road side and on the walls of the bazar.

Availability and Management of Raw Material



The bee hive is locally available to the producer; they either purchase it from neighbors or from the NGOs/ LSO. The cost of one hive is varied from 2000 rupees to 20,000 rupees depending on size, quality and life of the hive. The average price of a hive with bees is Approximate Rs. 9,000/ reported by the local producers.

Most of the people are of the view that the raw materials, like honey bees, box is not timely available. The quality is also questionable. The NGOs have provided information on diseases but information on diseases but the information are not sufficient.

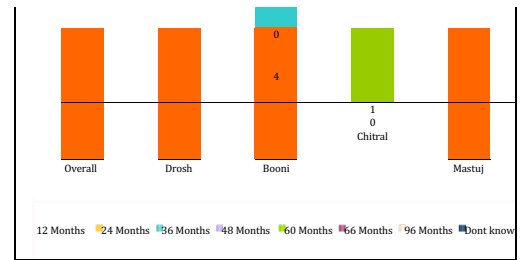
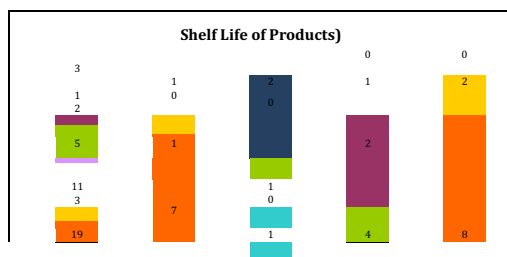
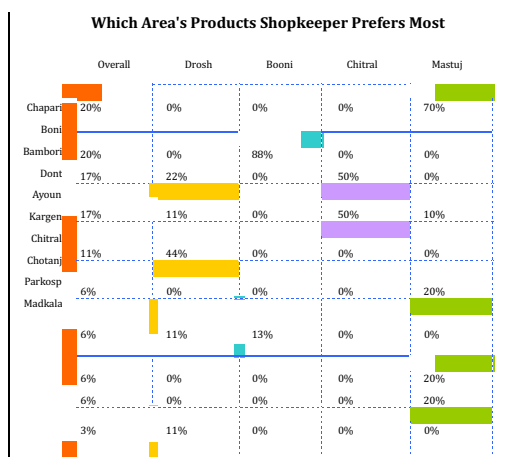
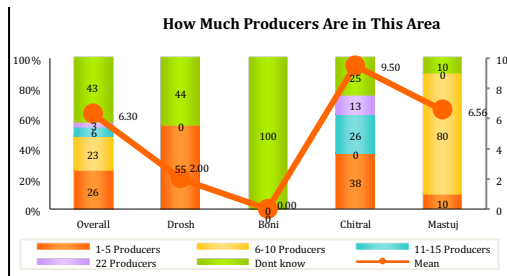


The honey hive is governed by the “Queen Bee” who leads the process and

assigns the task to the workers. There is only “Queen Bee” in the in one hive. If “Queen Bee” is expired or died due to any reason (disease, weather, of accident) all members usually stop working until a new leader is arrive. The hiring of new leader is another technical method. The local usually purchased or get the “Queen Bee” from the neighbors, they shift is from the small hives or wait until new leader is born. The honey producers were found well-equipped to deal with the death of queen bee.

3. Marketing

Most of the honey produced in District Chitral is sold in the local markets through retail shops in the villages and main bazaar of Chitral.



The honey can be survived on the shelf from 1 – 8 years. The life is totally depended on the category, quality and the way they collected and preserved it. The proper use of packing material i.e. air tight jars etc. can also add life to its shelf life.

There is more demand of Chitral honey. The production cannot meet the demand. If they receive order in bulk quantity, they cannot provide because of infrastructure and capacity building issues. The weather also effects on honey production.

4. Sales and Distribution

The linkages of honey bee producers are very weak. The producers do not have any support. They do not have any orientation about it. But a few have developed their links with national and international links with the help of tourist and with the help of their relatives.



The honey is deliver to customer and shopkeeper in bottles, boxes and drums

depending on the quantity, which they take themselves or the shopkeeper collect it themselves from the source.

Access to National and International Markets

There are no arrangements to market the honey in the markets of big cities and towns of the country. Local beekeepers are made to sell their products locally as they don't have opportunities to sell the produce nationally or internationally (Iqbal, 2012). In the year 2007, MOGH Limited (a local enterprise) did a pilot of wholesaling the

natural honey also holds a great deal of consumers. medicinal value for the health conscious

honey from Chitral to Hashoo Foundation Islamabad. Initially 948 kg of honey was sold to Hashoo Foundation on cost basis just to check the market situation and based on that Hashoo Foundation placed an order for 8 tons for the year 2008. Keeping in view the market response the farmers increased the production capacity from 350 boxes to 500 boxes. But the year 2008 remained very bad for farmers as the season was not favorable for the honey bees. Even with the increased

The international market has a great potential to market the local honey and fetch more profits as depicted in the following table:

Recorded World honey statistics

Country Name	Year	Annual production (Tones per annum)	Import	Export (Tones per annum)
Argentina	2001-2003	80000		78000-87000
Australia	2001	19000	67	11000
Canada	2001	32000	196	20000
China	2001	200000		106666
Cuba	2002	9000		6000
Germany	1984	20000	75000	10000
Mexico	2001	56000		50000
Syria	2004	1750		30
Turkey	2001	71000		
United Kingdom	2003	1500	20000	1000
Thailand	2002		3327	1979
Trinidad & Tobago	2003			
Philippines	2003	300		
USA	1984	75000	58608	2942

production capacity the total production of honey for the year 2008 remained less than 2 tons and out of that MOGH Limited could source only 400kg for Hashoo Foundation, as the farmers were not willing to sell their honey for prices agreed with between MOGH Limited and Hashoo Foundation. The above situation shows that there still exists a huge supply and demand gap for the natural honey of Chitral hence creating opportunities for women/youth entrepreneurs to enter into this business. With all the varieties of honey available in the market there is still a potential for Chitrali honey as it is natural and tasty. People use honey not only as a food item but As the data reveals that there are big opportunities to enter into the honey market. The organic honey has great value and fetches higher profits. Pakistan having huge potentials could not make much out of the international market. The opportunities are out there and need to be explored. The opportunities may provide jobs and livelihood earning opportunities to the hundreds not only in Chitral but all over the country.

Summary of Findings

This sector remains mostly unorganized and underdeveloped in Chitral. The reason behind this fact is this is considered as a part time activity mostly at household level with scattered hives. Another reason is most beekeepers have not fully valued its potential and translate it in to commercial enterprise. The producers have very weak market links which is not encouraging them to put more efforts in the production of honey. The following are few suggestions to improve the market linkages:

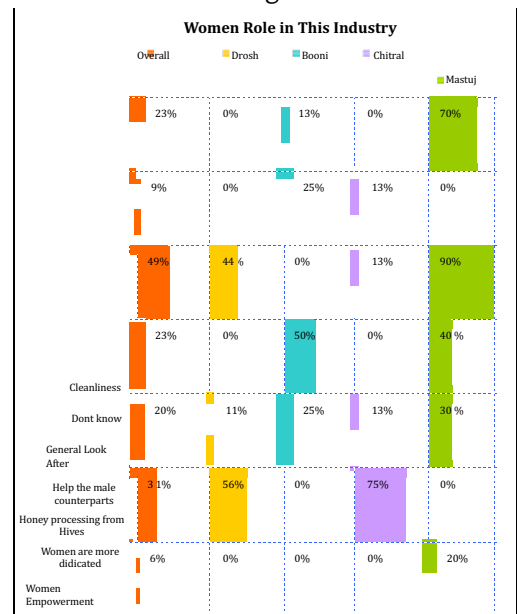
Availability of raw materials

Producers should be exposed to national (Islamabad, Lahore, Karachi) and international markets

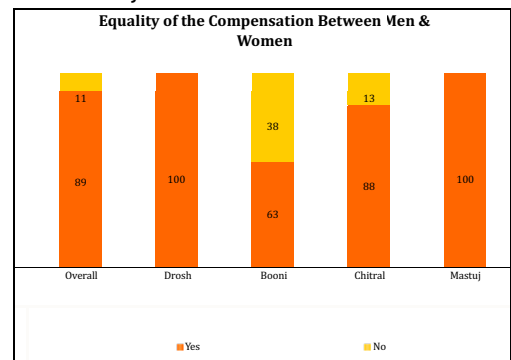
- Training on Packing and packaging
- Training on control on disease
- Loan and government support

5. Gender Equality

The local culture i.e. Parda and mobility is the only hindrance for women to market and bargaining their products. The community is very supporting to these women if they practice their business within cultural and religious boundaries.



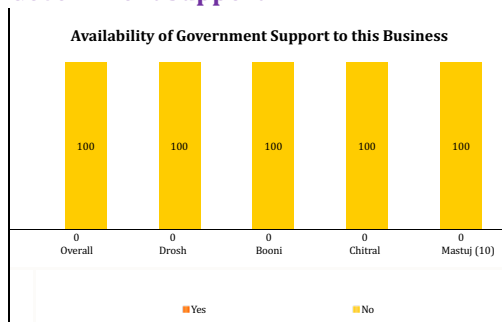
The women are mainly tasked to look after the honey bees, clean the space/hive and collection of the honey. IT was also rated that women are more dedicated to their work and perform the task more heartedly than the male community.



No discrimination is found in the payment procedure. Only Boni rated a slight discrimination in the payment of honey products i.e. 38%.

6. Support Mechanism

Government Support



Role of NGOs in promotion of Bee keeping

Training was provided to honey bee keepers by the Hashoo Foundation, AKRSP, SRSP and CIADP (through their LSOs). But there is no follow up of these training. These training do not meet their requirement. Still they are bound to follow their own conventional methods.

The contribution of AKRSP in VC Product:

The role of Aga Khan Rural Support Programme, (AKRSP) has been very significant in bee keeping in Chitral. It is the pioneer rural support organization and has been working in Northern Areas and Chitral for Socio-Economic development of the rural communities through its multi-sect oral activities, in partnership with the local village-based institutions (Village and Women Organizations), in Chitral district of Khyber Pakhtunkhwa (KPK) for the last 26 years. However Hashoo Foundation offers a case in point for developing honey's value chain from local to international levels.

A Case in Point Hashoo Foundation(HF)

The Hashoo Foundation (HF) is new entrant in the field to promotion of bee keeping sector to help women of Chitral to gain control of the field. The "Women Empowerment through

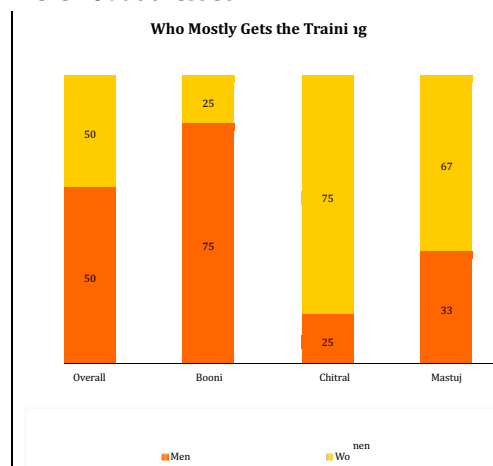
Honey Bee Farming Project was initiated in 2007 help the women of Chitral in becoming entrepreneurial bee professionals.

The foundation is of the view that honey bee farming was chosen as a project due to the reasons that it was already practiced in the area. Moreover flora was found in abundance in the area. Importantly the response that women of Chitral gave to Hashoo foundation was very motivating. They not only were eager to work in this field, also they wanted to increase the of their family. HF has helped the local women by training them, giving them strength and by buying their honey on lucrative prices to sell in to the national market including PIA, SARENA, Supermarkets and famous Hotels. The plan has helped as a supportable social-business model which promotes women as the means of their own economies. Women that contributed in the project are now key appointment holders in the local Honey Bee Associations.

The producers of honey and traders are of the view that there is no research facility available for them. The producers involved with the Hashoo Foundation think that the organization representatives know it.

Capacity Building Needs

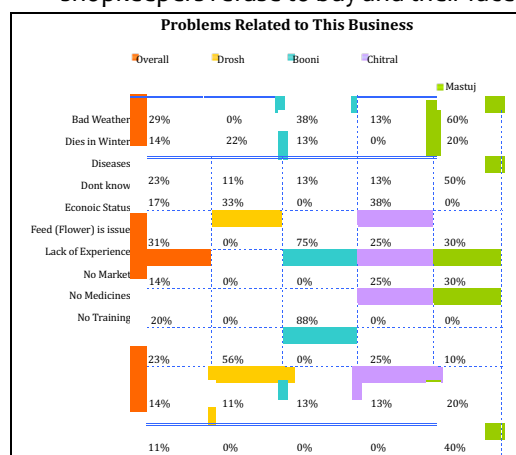
The training is one of the major issues of this VC product. They conventionally do it. Though, some organizations, AKRSP, CIDP and others have provided training but the major issues of honey beekeeping were not addressed.



The people involved in honey beekeeping VC produce are not satisfied with their capacity and skills of people associated with this facility. They do not know about marketing strategy. They do not know about branding, merchandising. They do not know how to sell it. They do not know what are the major technique to improve honey production. Mostly women involved in honey are poor at knowing about the value of their product. They seem to be exploited. Financial constraint is also one hurdle. The producers of honey are of the view that they need training, demonstration, marketing strategies and need loan. They also need help visit national market.

7. Issues and Concerns

Honey beekeepers are worried about disease which attaches their product. There is an insect which engulfs honey bee. Sometime, the stomach of bee is disturbed and the bee die. There is disease in which the wings of bee are worn and bee cannot fly to flowers and eat honey. The hives also get decayed. Resultantly, there very low production and the low quality honey are produced and the shopkeepers refuse to buy and their face loss.



Lack of capacity and skills

One of the most common problem faced by the locals is, that about 90% bee keepers are untrained and lacking required technical skill. Due this factor alone, they cannot yield good

production and unable to get profits from this sector.

Climatic Uncertainties

The climatic condition does have adverse effect on bee farming. In winter season snow falls in every part of the district while the upper valley buried under the white icy cover throughout the winter season. The temperature goes down to minus curtailing the business activities. The bee colonies are one of the worst affected and most of them are destroyed completely.

Lack of government interest for this sector.

The bee farming like many other sectors has yet to get government attention. The bee keepers are working without the government protection in case of natural calamity or destruction to their production. They are not provided any facility which could provide them sense of government protection.

Lack of capitals with bee keepers.

The people who are attached with this sector are mostly poor folk with limited resources. They always face financial crunch and short of capital to boost their business.

- No guaranty of honey quality. The lack of laborites for testing the production is big impediment. No brand name.
- Lack of planning
- Diseases attacks.

and pollens.

RECOMENDATIONS

- The production of honey can be increased many fold if the producers at the valley level team up with each other in the form of association and move their boxes around the valleys and learn from each other's experiences.
- The honeybee farmers should be orient to move their hives during different seasons to get maximum potential from their boxes according to the flora season which moves from south to north.
- here are few very success and professional honeybee farmers are actively involved in honey business in Chitral. These successful models should be replication in other potential areas of Chitral.

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