

A Report on

Consumption/Demand of Allo Fiber in Carpet Industry

And

Future Potentiality of Allo Based Micro-Enterprise

Expansion

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The outcome of this study will contribute MEDEP in enhancing the market of the product (Allo), creating more employment opportunities, market linkages, and modeling effective training programs. Moreover, the ideas, knowledge, skills and experience gained will surely be helpful for us to perform better in our professional career. Everybody in the organization made our work placement memorable and beneficial which would be helpful for us in our future career.

Certificate of Authorship

We hereby declare that this submission is our own work and that, to the best of our knowledge and belief and any assistance we received in its preparation is fully acknowledged and disclosed in the paper. We have also cited any sources from which we used the data, ideas or words, either quoted directly or paraphrased. We also certify that this report was accepted by Micro Enterprise Development Programme (MEDEP).

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List of Acronyms

CCIAN	Central Carpet Industries Association of Nepal
CFC	Common Facility Center
CSIO	Cottage and Small Industries Office
DCSI	Department of Cottage and Small Industries
GoN	Government of Nepal
MEDEP	Micro-Enterprise Development Programme
MEDPA	Micro-Enterprise Development for Poverty Alleviation
NCEA	Nepal Carpet Exporters' Association
OSECH	One Spot Exchange Clearance House
SAUGAT GRIHA	Saugat Micro Promotion P. Ltd. (Sales Outlet)
TEPC	Trade and Export Promotion Centre
UNDP	United Nations Development Programme

Executive Summary

Micro-Enterprise Development Programme (MEDEP) is an organization with support from Government of Nepal (GoN), United Nations Development Programme (UNDP) and AusAID that is working in Nepal since 1998 which aims to reduce poverty by creating employment and income opportunities through entrepreneurship development among the rural poor. It recognizes resources and the potential for employment creation and income generation by the use of those resources. Then it provides necessary skills and training required to utilize those resources along with the market linkages for the products produced.

With this in mind, MEDEP has recognized Allo (*Girardinia diversifolia*) as one of the resources with potentiality for employment creation. Thus, this study on “Consumption/Demand of Allo Fiber in Carpet Industries and Supply (Value) Chain and Future Potentiality of Expansion of Allo Based Micro-Enterprise” has been carried out.

The number of carpet factories in Nepal was found to be around 900 from the records of Department of Cottage and Small Industries (DCSI). However, information compiled from our database showed only 240 are currently operating.

The type of carpet can be classified into two main categories: a. raw material used (like Silk, Wool, Hemp, Allo and so on) (see table 2) and b. the number of knot used per square inch (60, 80, 100, 150, 200 and 300) (see table 3).

The total annual carpet production volume of the 22 sample carpet factories is found to be 70,450 sq. m. averaging 3,202 sq. m. per carpet factory. Their market value depends upon the two main factors: complexity of design and the raw materials used in it. The market value (in Rs. / Sq. m) of the top 5 raw materials used in carpet ranges from: Wool: Rs. 7500-15000, Silk: Rs. 15000-30000, Allo: Rs. 8000-19000, Hemp: Rs. 6000-18000, Banana Silk: Rs. 8000-20000 and Bamboo Silk: Rs. 8000-20000.

Total consumption of Allo by the 22 sample carpet manufacturers is approximately 58,175 kg per annum averaging each carpet factory to 2,645 kg per year. Hence we can say the total consumption of Allo in Carpet Industry is approximately 2, 79,312 kg per year.

We have found that the supply chain of Allo constitutes of three main actors: producers of the Allo yarn, traders of the yarn and finally the carpet industry. There are 2,701 Allo yarn producers and 150 Allo traders found from the 12 study districts at present.

Our observations show that Allo is used by about 44% of the carpet factories in Nepal where more than 95% of Allo carpets are exported to the international market. All of the observed companies were located in Kathmandu, Lalitpur and Bhaktapur. The use of Allo in carpet is demand dependent so it is difficult to get actual measure. However, the total consumption of Allo yarn in the Nepalese Carpet Industry is found to be approximately 2, 79,312 kg per year. From the interview with the producers of the Allo yarn, we have found that each producer produces around 180 kg/ year totaling to 4, 86,180 kg per year. Hence we found the gap of to be more than 2, 00,000 kg per year between the Allo yarn demand and supply in the market. However, the figure of the supply has some limitation mentioned in the limitation part further in report that cannot be overlooked.

We found that at present the 22 sample carpet manufacturers are employing a total of around 1,750 employees only whereas in the past during the peak time a single factory hired around 200-500 employees. All of the active carpet factories do not use Allo at present but if they start using Allo then at the present rate, the number of traders should be increased to around 343 and the number of producers should be around 6,104. This would almost double the number of Allo entrepreneurs resulting in increased scope for employment creation in this sector.

MEDEP has been supporting the micro-entrepreneurs in the form of training, exposure visit, common facility center and equipment in various districts. (See annex VI)

Finally, in order to increase the use of Allo in the Nepalese carpet industry, we have recommended to increase promotional activities of Allo carpets in both national and international levels through exhibitions and documentary, institutionalize supply of allo in order to maintain consistency in volume, price and quality of Allo yarn and advocate for providing more cash incentive or subsidy to Nepalese carpet manufacturers.

Chapter 1

Introduction

1.1. Background

Allo (botanical name *Girardinia diversifolia*) is a wild bush widely found in Nepal between the altitudes of 1000-1300 meters above sea level. It is also known as Himalayan Nettle and has its cultural use in Rai, Gurung, Magar, Tamang and Sherpa communities. It is being used in Nepalese carpet industries since the last 15 years. It has also been in commercial uses like clothing, apparels, bag and purses as well. Its fiber has a potential to develop not only the carpet industries of Nepal but also other industries like clothing. It has the potential to capture many markets in the international level as well as domestic level.

Micro-Enterprise Development Programme (MEDEP) was established in 1998 as a technical collaboration between the Government of Nepal and United Nations development Programme to fight poverty in Nepal through entrepreneurship development. It is also supported by AusAID. MEDEP has been successful in its aim of creating micro-entrepreneurs among the rural poor. To create such entrepreneurs, it has recognized Allo as a potential local resource for creation of employment and income generating opportunities. Thus it has been promoting Allo and its use in various ways.

Nepalese carpet industry saw a big growth in late 90's. There was a time when the total export of carpets was 25 lakh square meters in a year (Nepal Carpet Exporters' Association, 2014). However, after the democratic movement of 2062/63, the face of Nepal changed and so did Nepalese carpet industry. The revolution made waves of ups and downs in every sector of the country. The industry went through many controversies. In 2007, ICF commenced a research on the child labor used in carpet industry where they observed the prevalence and characteristics of child labor in Nepal, trafficking and migration. This had an impact on the carpet industry of Nepal. Many big and small companies went through hard times. Plus the labor union problems in Nepal also played a vital role in degrading the overall growth of the industry. Labor union made various unnecessary demands in front of their companies

which was the outcome of democratic revolution of 2062/63. This gave no option to the Carpet manufacturers but to close down or down size the organization. Since then this industry has gone through a difficult time.

MEDEP has conducted many researches before which gave us an overview that most of the Allo fiber was consumed in carpet industry. Hence this report will give brief details about what amount is consumed in the carpet industry and the future potential to serve the industry. At present, 95 percent of the production of carpet is concentrated in the Kathmandu valley with the remaining 5 percent spread over a number of other districts of the country.

1.2. Rationale of the Study

Nepal is a country with 27.8 million population 25.2% of which remains below the poverty line (World Bank, 2014). With rapid increase in population without proportionate increase in employment opportunities, there is lack of income generating activities in the country which has led to foreign migration. Micro enterprise development in Nepal has played a major role in the economy of the rural areas of the country. It has helped to generate income and employment opportunities for the rural poor which will be helpful in addressing the issue of poverty in the country.

The Nepali carpet industry has major economic potential. During the mid-1990's the industry employed almost one million people and accounted for a third of the exports becoming the largest supplier of foreign currency. The situation may not be the same at present and yet the Nepali hand-knotted carpet ranks 2nd in the list of export items of the country. The Nepali carpets are made using variety of fibers like wool, silk, cotton, hemp, nettle (Allo), etc.

Moreover, local resource based enterprises have relatively significant value in local and national economy. Allo is a perennial wild herb that is found abundantly in Nepal and has proven to be a major resource for micro-enterprise development in the rural areas of Nepal. The natural fiber of Allo has high value in Nepalese culture and national and international markets. Since most of the Allo yarn is mostly used in manufacturing of carpets, it has huge potential in that sector. If Allo can be promoted

for increased use in the Nepali carpet industry, it might act as a major resource to uplift the rural economy. This justifies the rationale of the study.

1.3. Objective of the Study

MEDEP promotes local resources that have potential for employment creation and income generation. It provides necessary skills and training required to utilize those resources along with the market linkages for the products produced.

Therefore, MEDEP has recognized Allo (*Girardinia diversifolia*) as one of the resources with potentiality for employment creation. Thus, the major objective of this study is to find the “Consumption/Demand of Allo Fiber in Carpet Industries and Supply (Value) Chain and Future Potentiality of Expansion of Allo Based Micro-Enterprise”.

The other objectives of this research are as follows:

- Identify the number of carpet industries working in Nepal.
- Identify the type of carpet that is produced currently in Nepal.
- Find out the volume and market value of carpet product by disaggregation.
- Find out the Allo consumption volume in carpet Industry.
- Identify the supply chain actor of Allo fiber and disaggregates.
- Identify the supply, demand and gap of Allo fiber.
- Identify the present employment/enterprise number and potentiality of employment creation in Allo sub-sector.
- Find about the support from MEDEP (like training, exposure visit, common facility center, equipment) to micro-entrepreneurs for technologies, adoption and adaptation.
- Find about further support needed to accompany the market demand.

1.4. Scope of the Study

The scope of the study is to find out the potentiality of the use of Allo in carpet industries. Since almost 95% of the carpet manufacturers are concentrated in the Kathmandu Valley, only they have been considered in the study. For the Allo producers, producers from Shyaulibang, Pyuthan were interviewed by the use of telephone since their contacts were available through MEDEP-APSO office. For the

traders, only those have been interviewed whose contact details were available through the carpet manufacturers. Relevant documents, study reports and publications were also reviewed for the preparation of this report.

1.5. Limitation of the study

As per the objectives and scope defined, there are some limitations in the study which are listed below:

1. The study approach is developed according to MEDEP specification and premises.
2. The period of the research is in restrictions of time bound.
3. The accurate and specific quantitative data was not available because of poor data recording system.
4. The average supply of Allo from the producers cannot be said as approximate because there are over 2701 producers all over Nepal and all of them are not working full time. Some produce only when they are free from other work, some produce only during the high demand in market, some do as a part time job. Hence the total supply of Allo yarn is high unpredictable to define.
5. Formal/informal use of Allo at local level in particular communities is not traceable.

Chapter 2

Research Approach & Methodology

2.1. The Research Approach

Research Methodology is a way to systematically solve the research problem. It may be understood as a science of studying how research is done scientifically. In this regard we have selected both qualitative and quantitative as our research approach.

Therefore the qualitative approach model is applied to investigate the supply chain of Allo, the actors involved in it, its history, problems and viable solutions.

Another approach quantitative is used to investigate systematically related phenomena via statistical data through analysis techniques. Quantitative data is presented in applied numerical form of the statistics such as quantity, amount, percentages, etc. It is used to present the volume of carpet produced and volume of Allo usage in the carpet industry, etc.

2.2. Research Methodology

2.2.1. Secondary Data Collection

The study covers the review of the secondary information and literatures collected from various websites and past studies that were available on the internet. People from CSIO- Kathmandu, CSIO- Lalitpur, DSCI, TEPC, CCIAN, NCEA, Allo Entrepreneurs' Association and Saugat Griha were visited, consulted and data were taken for secondary information relevant to our study.

2.2.2. Primary Data Collection

Primary data was collected by preparing separate questionnaires for carpet factories, traders and producers of Allo. Information of traders and producers of Allo were collected from MEDEP, Saugat Griha, and carpet manufacturers.

Field survey was conducted where personal interview was taken with each interviewee with the questionnaire as the basis for the interview. For field survey, the proposed approaches, methods and tools has been used vary across disciplines. Three

questionnaires have been developed (Annex-I, II & III). Before field survey, consultations were done with MEDEP and the research was organized. In cases where field survey was not possible, telephone interview was conducted.

2.3 Data collection procedure

In order to collect information for this survey, both the primary and secondary data have been utilized. For the collection of primary data, a set of questionnaires has been prepared which is distributed among the carpet manufacturers, allo producers and traders. The questionnaire has been shown in the appendix. Similarly, secondary sources of data have also been utilized.

2.4 Data Analysis method and tools

In order to carry out the analysis, excel was majorly used. The response collected from the respondents was coded and entered into the excel worksheet. After the coding, the appropriate analysis was done on the data collected. Various statistical tools were used to draw inferences from the collected responses.

All the distributed questionnaires were collected to make them applicable for presentation and analysis. Breakdown of some items as necessary have been made. Presentation of data has been done on tabular form, simple bar-diagram and pie charts.

As the nature of the study is confined to a particular area, some statistical and descriptive tools are used. Since the study is based on quantitative data, mainly the descriptive analysis has been made to draw some conclusion of the study.

- **Percentage (%):** It is mathematical tool which represents the portion of any variables in terms of its total. In the present study, percentage has been used to obtain actual number of respondent's brand preference.
- **Diagram and graphs:** These are the picture tools, which helps to know the true picture of the different variables in the absence of complicated formulae and equation.

Chapter 3

Study, Data and Survey Analysis

3.1. Literature Review

3.1.1. Nepalese Carpet Industries

Carpet weaving is an old tradition in Nepal. Carpets are made using wool, silk, hemp, Allo, cotton, bamboo silk, banana silk, viscous etc. Carpet is also a major export item of Nepal with maximum carpets exported to Europe and America. However, the export of the Nepalese carpet is in decreasing trend over the years due to deteriorating quality, international competition and issues of exploiting child labor.

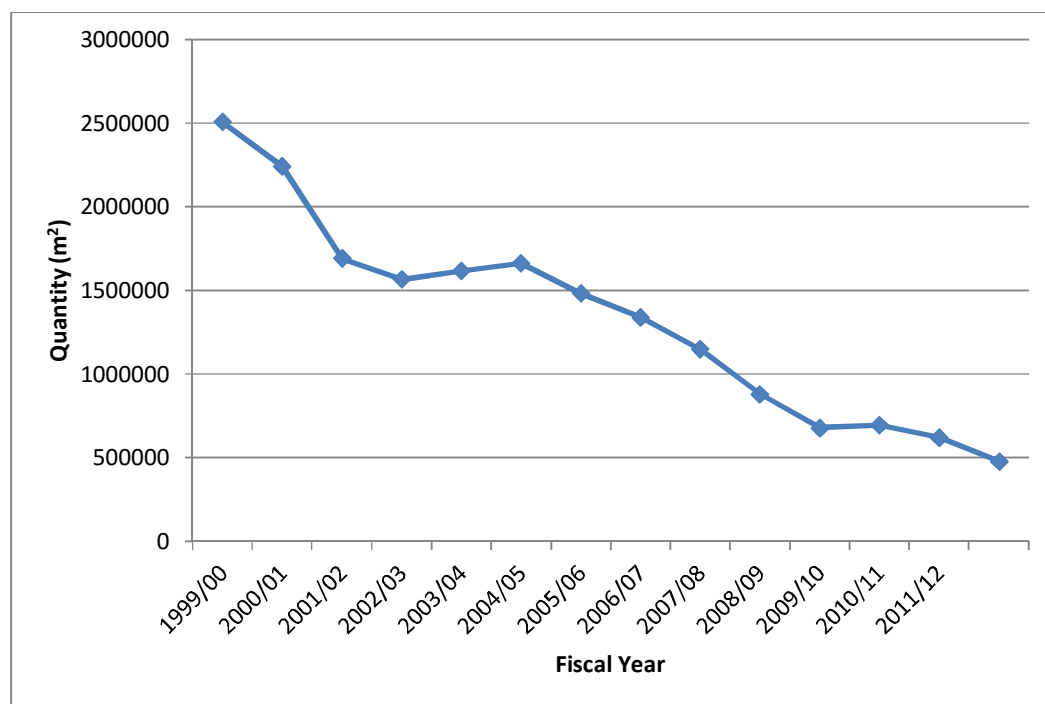


Figure 1: Nepalese Carpet Export Volume (1999-2012)
(Source: Central Carpet Industries' Association)

According to the Central Carpet Industries Association of Nepal, about 95% of the carpet factories in Nepal are concentrated in the Kathmandu Valley. Most of the workers in the carpet factories are women (more than 70%).

Table 1: Top 10 Exporters of Nepalese Carpet (2070/71) by Volume

S.No	Exporter	Sq. m.
1.	Himalayan Art Carpet	20,716
2.	Paramount Carpet Industry	15,909
3.	The Shangrila Carpet & Handicraft	14,234
4.	N.P. Rugs Industries	12,683
5.	Tufenfian Nepal	10,290
6.	Third Eye International	10,241
7.	The Custom Rugs	8,370
8.	Kaju Art Rugs	7,990
9.	Tibet Carpet	7,801
10.	J Seasion Export Pvt. Ltd.	7,324

Source: Top Exporter Report, TEPC-OSECH

Most of the carpets produced in Nepal are exported. The table above shows the top ten carpet exporters of Nepal in terms of the volume of carpet they export.

3.1.2. Carpet Manufacturing Process

The production process of Nepalese carpet includes:

- Sorting and washing
- Carding
- Spinning
- Dyeing
- Knotting
- Trimming
- Washing and drying
- Finishing
- Packing

3.1.3. Allo

Allo (*Girardinia diversifolia*) is a perennial plant that is commonly known as Himalayan nettle. It is a fiber yielding plant which is found in 58 districts of Nepal covering 6465 sq. km. of land. It is estimated that Nepal can produce a total of 155.06 metric tons of Allo yarn annually.(Joshi, 2010)

3.1.4. Uses of Allo

- The plant has socio-cultural values mainly in Rai, Gurung, Magar, Tamang and Sherpa communities.

- The leaf of Allo is used for treating headache, joint pain and fever.
- The bark is used to extract fiber which is spun to make yarn that can be used to make caps, bags, shawls, carpets etc.

(Nepal Foresters' Association (NFA), 2013)

3.1.5. Process of Extracting Allo Fiber

Allo fiber has unique qualities like strength, smoothness, lightness and silk-like luster, when treated appropriately. The process of extracting Allo fiber includes the following:

- **Harvesting:** The plant is harvested between August and December.
- **Processing:** The outer bark is separated and boiled in water with wood ash for 2- 4 hours. Then the cooked fiber is washed in running water accompanied with frequent beating with wooden hammer. The fiber thus extracted is mixed with rice husk or maize flour or in white clay solution to bleach the pulp to obtain white shinning fiber and making it soft. After bleaching, it is washed to remove the bleaching materials.
- **Yarn making:** The fibers are then spun into yarn with hand spindle known as *katuwa* or spinning wheel known as *charkha*.

(Nepal Foresters' Association (NFA), 2013)

3.1.6. Allo Usage in Carpet Industry

It is found that the carpet industries are using about 7-8% of Allo as raw material out of the total raw materials used in manufacturing carpets.(Nepal Foresters' Association (NFA), 2013). Allo is the best alternative to other fibers used in carpet making because of its quality and natural availability. However due to processing problems and higher cost, its usage are less than hemp and other fibers.

Allo yarn has a huge potential as a raw material for the Nepalese carpet industries and can substitute import of other raw materials such as wool, cotton and silk. For this, it must be made sure that the fiber processing technique is optimized as per the demand of industry stakeholders (Joshi, 2010).

3.2. The Number of Carpet Manufacturers Working in Nepal

According to the records of DCSI, the total number of carpet manufacturers that have been registered in Nepal is above 900. However, from the records compiled from CCIAN, NCEA, TEPC and Goodweave Foundation Nepal, we found that the number of carpet factories currently operating is only 240¹.

3.3. The Type of Carpets Produced in Nepal

3.3.1. Based on Raw Material Used

The basic raw materials used in preparing the carpet are listed in the Table 2. 100% pure as well as blended carpets are manufactured in Nepal.

Table 2: Type of Carpet Based on Raw Materials Used

S.No.	Material
1.	Allo
2.	Bamboo Silk
3.	Banana Silk
4.	Hemp
5.	Jute
6.	Linen
7.	Pashmina
8.	Silk (Chinese, Indian)
9.	Sunpat
10.	Viscous
11.	Wool (Tibetan, New Zealand)

We found wool to be the primary material to prepare carpet, although other materials are also used in carpet. Since wool and silk are animal fibers, natural plant fibers such as Allo and hemp are gaining popularity as the world is moving towards using organic materials.

3.3.2. Based on Quality (Knots /Sq. In.²)

The quality of carpets depends upon the nature of material used and the number of knots per square inch. Nepalese carpets are different than other carpets in the international market because of the double knotting system due to which the carpets

¹ See annex IV

² Knot/sq. in.-number of vertical knots across one inch of carpet multiplied by the number of horizontal knots in the same area

are softer and thicker. The carpet can be differentiated according to the knots per square inch. The various types according to this are listed in the Table 3.

Table 3: Type of Carpet According to Knot/Sq. In.

S.No.	Type/knot	Description
1.	60	Each sq inch has 60 knots in it
2.	Super 60	Each sq inch has 60 knots tied more tightly to give a premium feel
3.	70	Each sq inch has 70 knots in it
4.	80	Each sq inch has 80 knots in it
5.	Super 80	Each sq inch has 80 knots tied more tightly to give a premium feel
6.	100	Each sq inch has 100 knots in it
7.	150	Each sq inch has 150 knots in it
8.	200	Each sq inch has 200 knots in it
9.	300	Each sq inch has 300 knots in it

As the number of knots increases the carpets become denser, thicker and heavier. Number of knots per unit area is directly proportional to the quality of carpet which means that as the number of knots increase, the better the quality of the carpet. We found that Allo is used in making carpet of any above listed knots.

3.4. The Volume and Market Value of Nepalese Carpet

3.4.1. Volume of the Nepalese Carpet

At present, the carpets produced in Nepal are highly customized. The production is demand driven. This means that the carpets are not produced and stocked for customers to look through the collection and purchase them (However only few have been found to keep the stock). Instead the customer comes to the producer with specific design and type of raw material to be used. Thus the volume of carpet produced each year fluctuates. However, the average volumes of carpet produced by the sample carpet manufacturers annually are listed in Table 4.

Table 4: Total Annual Carpet Production

S.No.	Carpet Manufacturer	Total Carpet Production (sq. m./ year) ³
1.	Decorative Rugs	1,200
2.	Everest Looms	3,000
3.	Excellent Carpet	1,500
4.	Himalaya Nurpu Carpet Industries	6,500
5.	Joshi Carpet Industry	5,000

³Average figure varies according to demand.

6.	Kantipur Carpet	7,000
7.	Madhu Carpet	3,600
8.	Mahabuddha Carpet	3,500
9.	Master Weaver	1,200
10.	Mero Rugs	6,000
11.	Mila Custom Rugs	4,000
12.	Nepal Carpet	4,000
13.	New Nepal Sagarmatha Carpet Udhyog	1,750
14.	Pranjali Carpet	250
15.	Rainbow Collection Nepal	2,000
16.	Rawal Galaicha	1,200
17.	Rugs Carpet and Design Pvt. Ltd.	3,000
18.	Shantideep Galaicha	1,750
19.	Sumi Carpet/ P.P. Carpet	5,000
20.	T.T. Carpet	3,000
21.	Ujjwal Carpet	1,000
22.	Vegetable Carpet	5,000
Total		70,450
Average		3,202

Thus we found that the total annual carpet production of the 22 sample carpet factories is 70,450 sq. which means annually 3,202 sq. m. per carpet factory on an average.

3.4.2. Market of the Nepalese Carpet

The market for the Nepalese carpet is almost 95% international. The major top 10 importers of the Nepalese carpets are listed in the table below.

Table 5: Market of Nepalese Carpets

S.No.	Importing Countries
1.	Germany
2.	USA
3.	Belgium
4.	Britain
5.	Turkey
6.	Switzerland
7.	Japan
8.	Spain
9.	Canada
10.	Italy

Apart from the above mentioned countries, the Allo carpet is also exported to countries with warmer temperatures such as Brazil, Chile, Argentina, Peru and Arabian countries since we have found that Allo carpets give a cooler feel than others.

3.4.3. Market Value of Nepalese Carpet

The market value of the Nepalese carpets depends upon many factors. However, the basic variation is caused by the type of raw material used and the number of knots per square inch. The quality of the raw material used also affects the value of the carpet. From our study the range of the values according to the material used for the top 6 materials are listed in Table 6.

Table 6: Market Value of Nepali Carpet

S.No.	Material	Rs. / Sq. m. ⁴
1.	Wool	7500- 15000
2.	Silk	15000-30000
3.	Allo	8000-19000
4.	Hemp	6000-18000
5.	Banana Silk	8000-20000
6.	Bamboo Silk	8000-20000

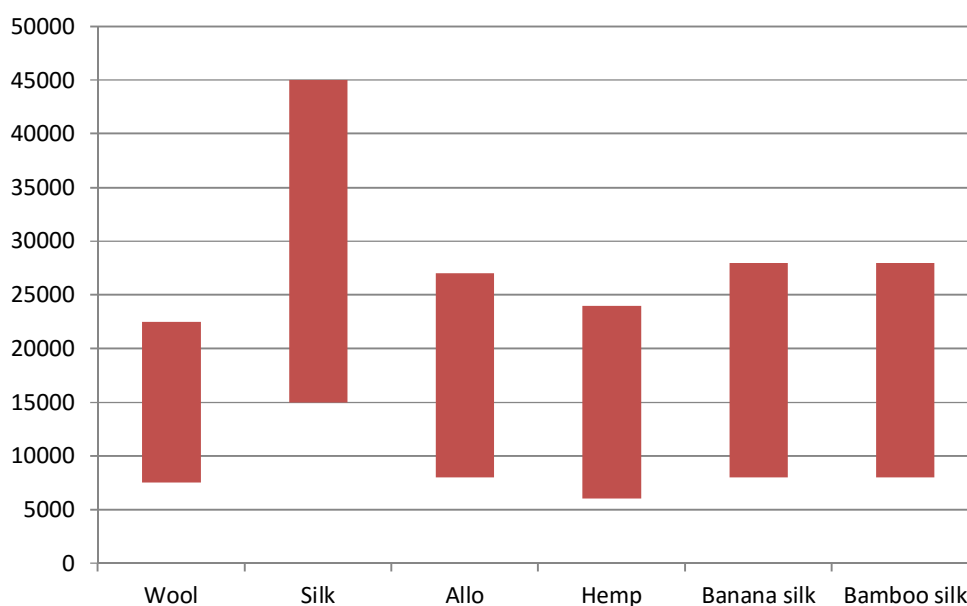


Figure 2: Market Value of Nepali Carpet According to Raw Material Used

We found that the most expensive material used in carpet is silk. Allo is cheaper than silk but more expensive than wool. Hemp looks similar to Allo but it is a bit cheaper.

⁴Average figure varies according to the quality of raw material and number of knots used.

3.5. Allo Consumption Volume in the Nepalese Carpet Industry

As mentioned earlier, the carpet production in Nepal is demand driven and so is the amount of Allo used by them. Hence it is not fixed for any time. The carpet factories do not prepare and stock the carpets. They make the carpet only after the order is placed because of which the actual quantity of Allo used up by the carpet factories per year is not easy to determine. However, the average annual consumption of Allo by the sample carpet manufacturers is shown by Table 7.

Table 7: Annual Allo Consumption

S.No.	Carpet Manufacturer	Allo Consumption (Kg/Year) ⁵
1.	Decorative Rugs	900
2.	Everest Looms	55
3.	Excellent Carpet	9,000
4.	Himalaya Nurpu Carpet Industries	1,750
5.	Joshi Carpet Industry	1,700
6.	Kantipur Carpet	5,000
7.	Madhu Carpet	500
8.	Mahabuddha Carpet	4,000
9.	Master Weaver	100
10.	Mero Rugs	120
11.	Mila Custom Rugs	550
12.	Nepal Carpet	17,500
13.	New Nepal Sagarmatha Carpet Udhyog	1,200
14.	Pranjali Carpet	2,500
15.	Rainbow Collection Nepal	1,000
16.	Rawal Galaicha	450
17.	Rugs Carpet and Design Pvt. Ltd.	1,250
18.	Shantideep Galaicha	4,000
19.	Sumi Carpet/ P.P. Carpet	2,000
20.	T.T. Carpet	2,500
21.	Ujjwal Carpet	100
22.	Vegetable Carpet	2,000
Total		58,175
Average		2,645

⁵Average figure which varies according to demand.

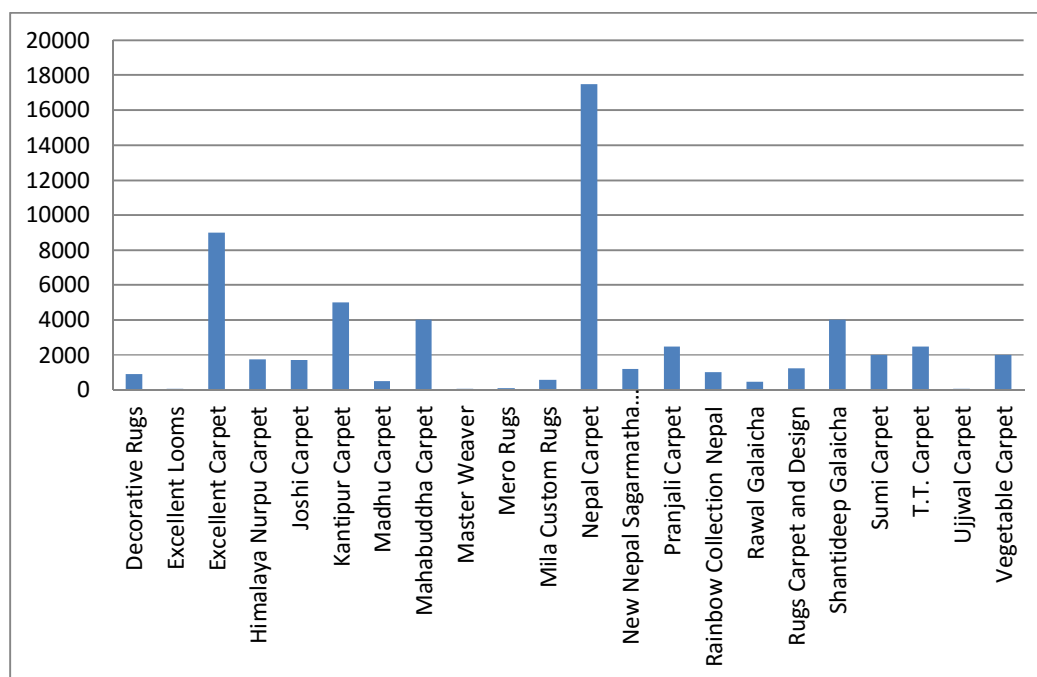


Figure 3: Annual Allo Consumption

We found that the total consumption of Allo by the 22 carpet manufacturers is approximately 58,175 kg per annum which means that on an average each carpet factory uses 2,645 kg per year.

3.6. Supply Chain Actors of Allo

The supply chain actors of Allo fiber include the following:

- The producers of the Allo yarn who are mainly found in the rural areas of Nepal (Rukum, Rolpa, Dadeldhura, Jajarkot, Kailali, Pyuthan)⁶. They are involved from the process of harvesting the plant, boiling, and beating to yarn making. They collect Allo fiber from the local forest, process it to make fiber and stock it. We have found that the total number of Allo producers all over Nepal is 2,701 only⁷. However they all are not full time workers. Some were found part timers who only produce Allo when they have are free. A data from MEDEP's MIS also revealed that many who were working in Allo shifted to another business.

⁶ See Table 9.

⁷ This is not an exact number. Since Allo production is a traditional business, people may not have registered as an enterprise, so the number may be far more than reported.

- The traders who collect the Allo yarn from the producers that are scattered in all the districts and sell the yarn to the carpet manufacturers and handicraft makers. During our study and field visit, a member of Allo association, Mr. Ganesh Aidi shared us the information that there are total of 150 traders all over Nepal who sell Allo yarn to different consumers like carpet manufacturer.
- The carpet manufacturers are mainly concentrated in the Kathmandu Valley who get the yarn from the traders. We found the total number of carpet manufacturers operating in Nepal is 240⁸.

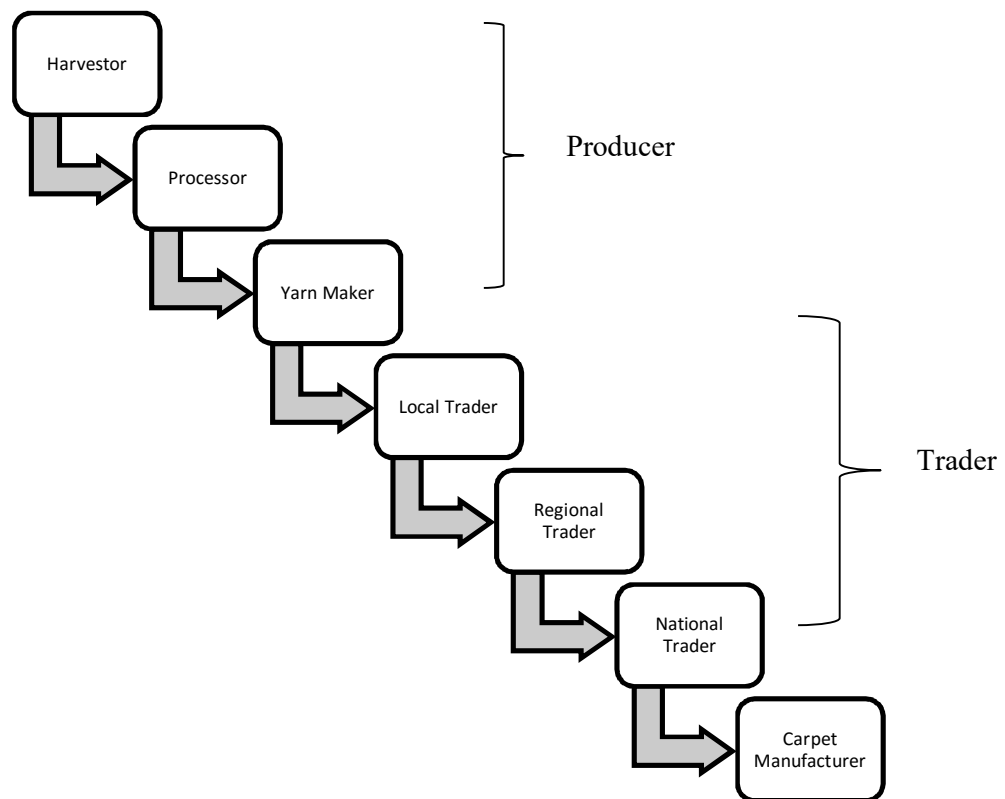


Figure 4: Supply Chain Process of Allo

⁸ For further detail see annex iv

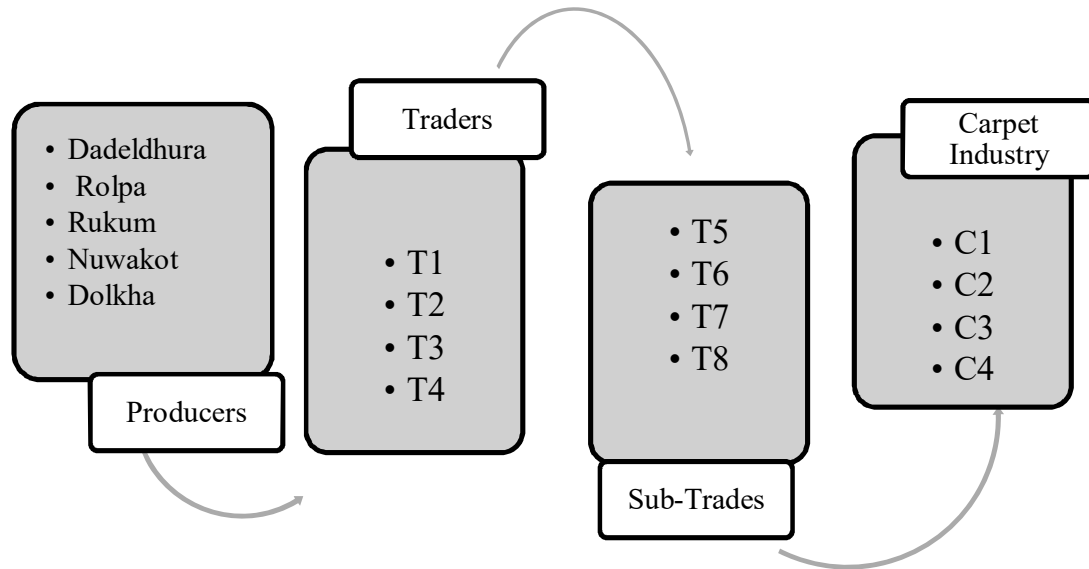


Figure 5: Supply Chain Actors of Allo

3.7. The Supply, Demand and Gap of Allo in the Nepalese Carpet Industry

3.7.1. Demand Side Analysis

Every carpet manufacturer in Nepal does not use Allo in carpets. Among the 50 carpet manufacturers that we have observed, 22 of them i.e. 44% use Allo at present (Figure 3). Among the ones who do not use Allo, some have used it before but are not using it at present because there have been no demand while a few of them are not aware of Allo.

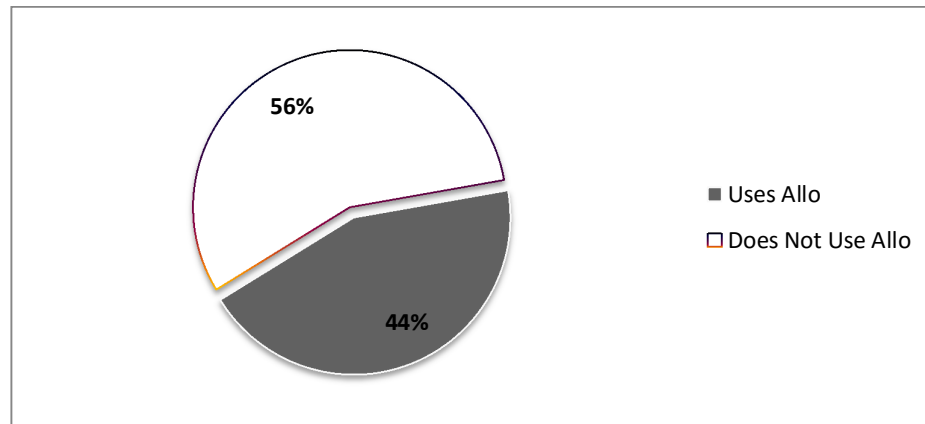


Figure 6: Allo Use in the Carpet Industries

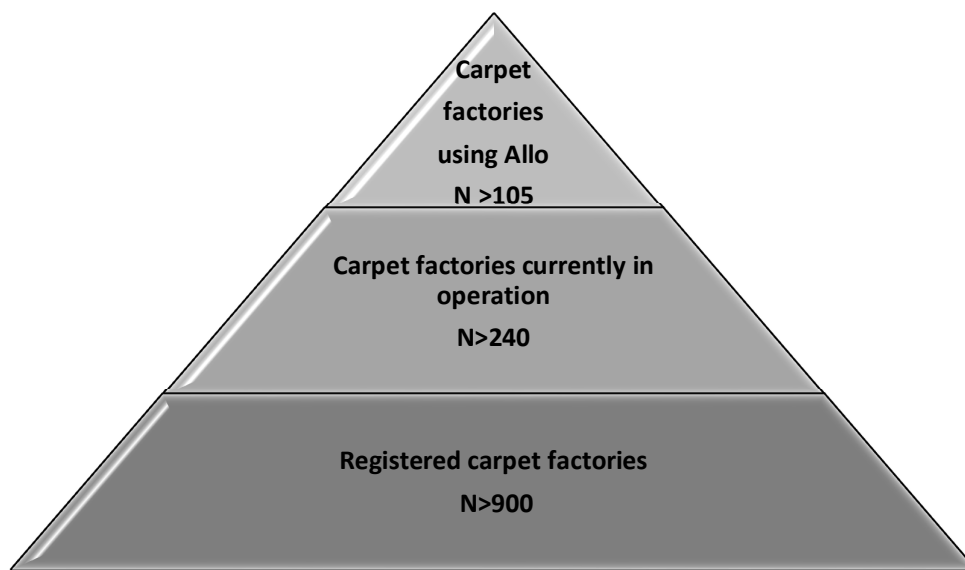


Figure 7: Pyramid Showing Nepalese Carpet Industry Numbers

From our study we have found that total of 58,175 kg per year of Allo is being used by the sample carpet factories at present which averages to approximately 2,645 kg per carpet factory per year. With reference to this we can conclude that the total demand of Allo in the Nepali Carpet Industry is approximately 2, 79,312 kg per year⁹.

3.7.1.1. Problems faced by carpet manufacturers

1. Inconsistent supply of Allo

A few years back, there was shortage of Allo in the market due to which many carpet manufacturers were not able to produce the carpet as per the demand on time. Because of this reason, few have stopped using Allo while some have

⁹ Total Allo consumption = (% of carpet factories using Allo) X (total number of carpet factories) X (annual consumption of Allo per carpet factory per year) =44% of 240 x 2645=2,79,321

decreased promotion of Allo carpet because they are unsure whether the raw material will not be available if demand increases.

2. Price inconsistency

The price of Allo yarn is very inconsistent which affects the production cost of the manufacturers. The price the carpet manufacturers are paying for Allo yarn at present can be found from Rs.500/kg to as high as Rs.950/kg. Figure 4 shows the price that the carpet manufacturers are paying for each kg of Allo at present. It shows that currently, maximum numbers of carpet manufacturers are paying Rs. 800-900 per kg.

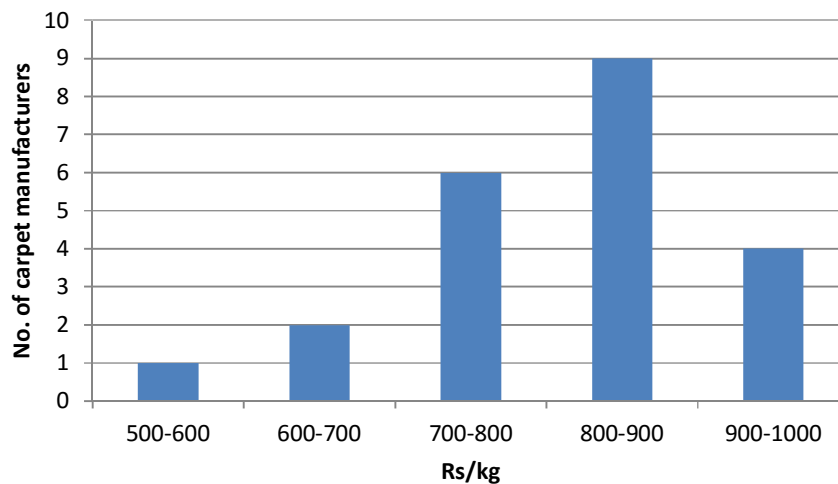


Figure 8: Price Paid for Allo Yarn by Carpet Manufacturers

3. Quality problem

The yarn when bought in balls posed problems to the carpet manufacturers because they contained stones inside to make them heavy. The sellers charged more price as the price depended on the weight of the balls. Among the 22 sample we took 10 manufactures came across this kind of problem in the past. Similarly, wet fiber was found wet in many cases which would rot and would be useless. However to avoid these problems the carpet factories these days do not buy Allo fiber spun into balls instead they buy loose fiber from trusted suppliers only. Similarly another problem in the quality of Allo yarn is that the color of the yarn is not uniform. Since Allo is mostly used in its natural color without dyeing, the inconsistency in the color makes it difficult for carpet

manufacturers to reproduce the carpet with same color. To address the root of the problem we asked few of the producers what makes the color of the Allo inconsistent. Here are two main reasons they shared with us:

a. Use of soda and wood ash to wash the Allo makes the color of the Allo different every time. Since it is washed manually the exact amount of soda and wood ash cannot be put in a uniform manner.

b. The thickness of the Allo yarn also makes the color vulnerable. Thicker the Allo yarn browner its color. Similarly thinner the yarn the lighter it gets.

3.7.2. Supply Side Analysis

Every producer we interviewed was involved from harvesting to yarn making process. Many of them started this as their profession since 4-5 years while few of them were involved in this sector since 12-15 years. The annual volumes of Allo produced by each of the seven sample producers we interviewed are given in Table 8.

Table 8: Production of Allo

S.No.	Name	Allo Production (Kg/Year)
1.	Bipana Gauchan	275
2.	Dhanmala Buda	55
3.	Durga Bahadur Sherchan	75
4.	Govinda BK	130
5.	Jasmaya Pun	250
6.	Jugmala Sherchan	75
7.	Jung Bahadur Gurung	400
Total production		1260
Average per producer		180

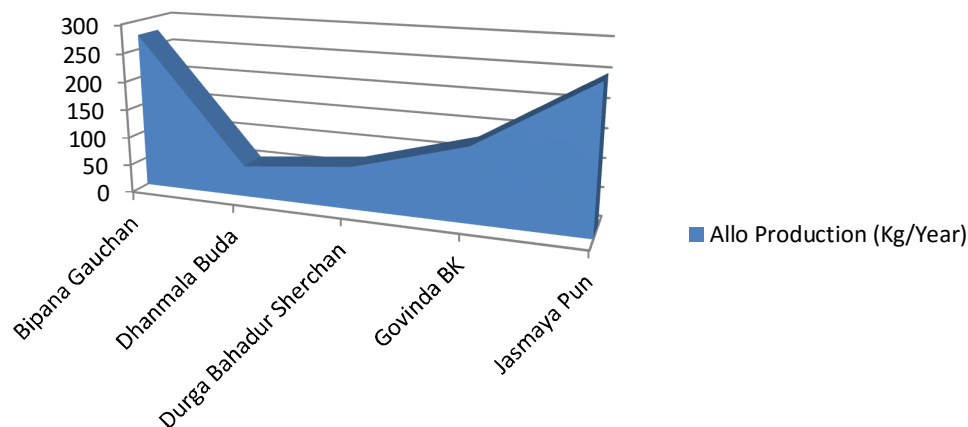


Figure 9: Allo Production from the Sample Producers

The table shows that the total annual production of Allo is 1,260 kg for the 7 producers which average to 180 kg per producer per annum. As mentioned in the earlier chapter, the total number of Allo producers in Nepal is approximately 2,701. Thus we can say the total Allo produced in Nepal in a year is 4, 86,180kg.

We found that the harvesting season of Allo is August-December. However we also discovered from all the interviews that during the seasonality it is less likely to affect the demand/supply of Allo. The harvested Allo during the season is enough to supply during the off season as well.

The selling rate of Allo could not be determined precisely because it fluctuates according to the demand of Allo. The producers of the yarn get paid very less compared to the middlemen involved in the trade of Allo yarn. As the involvement of middlemen in the business increases so does the price of Allo. We found that the middlemen manipulate price as they like. Thus the price of Allo varies from Rs 500/kg to Rs. 1000/kg. However in contrast we found that the price of other raw materials like wool, silk, hemp, bamboo silk had a decent price control mechanism. They depend upon the dollar value as they are imported.

3.7.2.1. Problems Faced by Allo Fiber Producers

The problems faced by the producers of Allo have been discussed below:

1. Time consuming process

Allo yarn is harvested and extracted from the Allo bark. After harvesting the plant; the bark is boiled with ash or caustic soda. After boiling the bark is washed in running water accompanied with frequent beating by a wooden hammer. The fiber thus extracted is mixed with flour or clay solution to make the fiber soft and shiny. Then it is washed and finally spun into yarn using a hand spindle or spinning wheel. The whole process is carried out by hand with minimum use of tools and machines thus making it time consuming.

2. Lack of manpower

Poor economic and political conditions have made Nepali people to move to other countries for job opportunities. In areas where Allo processing is usually carried out, only females, children and old people are left who carry out the process only during their free time; after they have finished their daily chores and when they do not have work in their crop fields.

3. Lack of Equipment

The equipment that is being used in Allo processing is usually hand operated. Electrical machine have been installed by organizations such as MEDEP but they are accessible to limited number of people and used only in spinning yarn and not the whole process of extraction.

3.7.3. Gap analysis

The demand and supply we have found shows that the total demand of Allo yarn in the Nepalese carpet industry is 2,79,312 kg per year while the total supply of Allo yarn from the producers in Nepal is 4,86,180 kg per year. This shows that there is a gap of about 2,00,000 kg per year between the Allo yarn demand and supply in the market. However, the figure of the supply has some limitation that cannot be overlooked which is briefed below:

We found that every producer does not produce every day. Some produce it only when there is a high demand in market, some produce only when they are free from their household jobs, and some only produce when they have no other job/work to do.

This makes the assumption of the total supply highly unpredictable. Also the Allo produced is not used up by carpet industry alone. Other industries like handicraft manufacturers and cloth weavers also use Allo yarn in huge quantities. However keeping this limitation in mind we have derived the above supply of Allo yarn.

According to a report (Joshi, 2010) 274,800 kg of Allo was produced in 2010. This shows that there has been a huge increase in the production of Allo in 2014. Awareness of Allo has certainly increased in these 4 years which has led to more consumption of Allo.

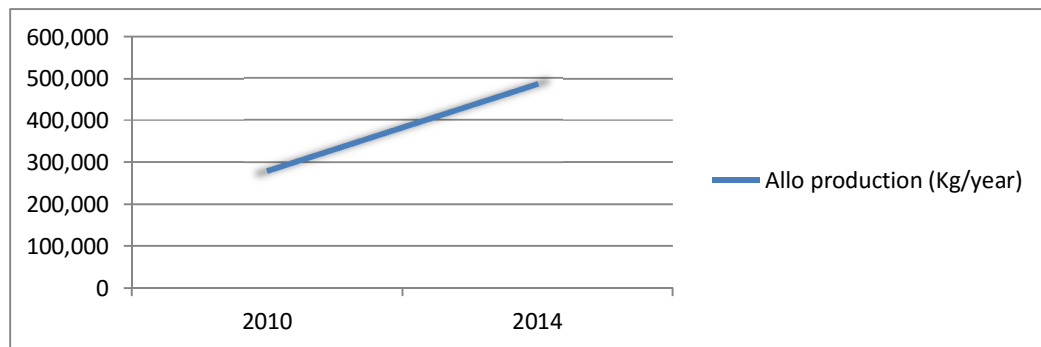


Figure 10: Allo Production in 2010 and 2014

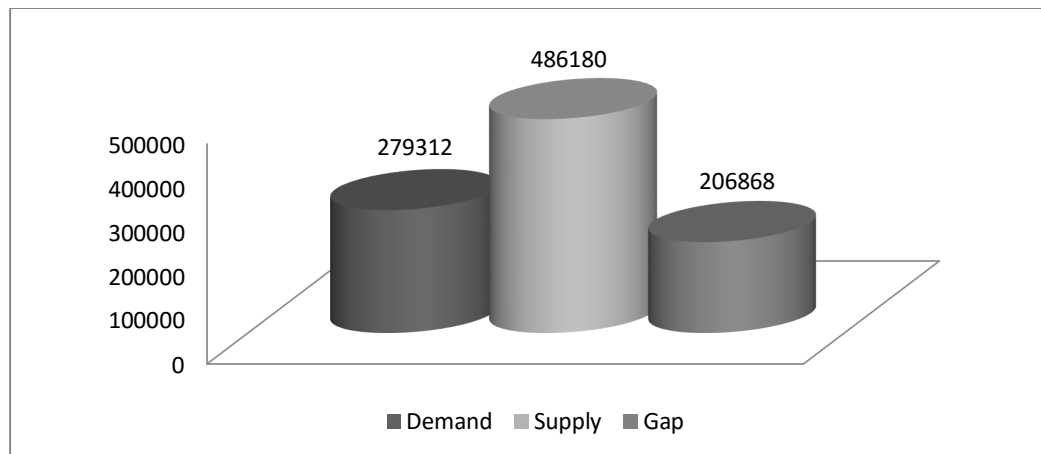


Figure 11: Demand, Supply and Gap of Allo in the Nepalese Carpet Industry

3.8. Present Employment/Enterprise Number and Potentiality of Employment Creation in Allo Sub-Sector

3.8.1. Allo producers and traders

According to Allo Entrepreneurs' Association, 6% population of Nepal is currently working in the Allo sector and 0.3% of the total enterprise in Nepal is registered as Allo enterprise. There are 2,701 Allo yarn producers and 150 Allo traders found from the 12 study districts at present which is shown in Table 9.

Table 9: Present Allo Employment Level

S.No	District	No of Allo Producers	No of Allo Traders
1.	Rolpa and Rukum	300	93
2.	Darchula and Dadeldhura	96	5
3.	Nuwakot and Dolkha	10	0
4.	Sindhuli	33	0
5.	Ramechhap	50	22
6.	Tehrathum	2	0
7.	Parbat, Baglung and Myagdi	140	n/a
8.	Kalikot	30	n/a
9.	Bajang and Bajura	20	n/a
10.	Dailekh	15	n/a
11.	Jajarkot	5	n/a
12.	Pyuthan	2000	35
	Total	2701	150

Source: MEDEP MIS database and Allo Entrepreneurs' Association

Thus from the above table, it can be derived that the ratio of producers to traders is 18:1 which means that one trader collects and trades Allo from 18 producers approximately.

3.8.2. Carpet Industry

We found that at present the 22 carpet manufacturers are employing a total of around 1,750 employees only whereas in the past during the peak time a single factory hired around 500 employees.

After the Jana Aandolan of 2062/63, many carpet factories closed down due to the problems created by labor unions. Those who survived have resorted to outsourcing

the production of carpets since it does not involve the hassles of having to meet the unrealistic demands of the unions.

Most carpet manufacturers these days do not run a factory of their own. They just take orders from the international customers and they subcontract it to weavers who might just be renting a small room to make the carpet. Carpet manufacturers subcontract their projects to a group of carpet weavers who work for almost 4-5 carpet manufacturers. The carpet manufacturers provide the raw materials and the design to the independent weavers who prepare the carpets accordingly. We have observed this trend in most carpet manufacturers; only few big manufacturers run their own factory.

Moreover, the carpet manufacturers are having hard times because of the lack of skilled manpower. Everyday a huge number of Nepalese are going abroad for foreign employment which has caused a major problem in carpet factories. This leaves women and children as workers who find this work as their part time income source. Even though the carpet weaving doesn't require high skilled manpower it certainly needs people who can work full time with dedication. They said that if the demand rises and reaches to the level that it was during the boom period, they will not be able to find the weavers required to make the ordered carpets due to the shortage.

The carpet manufacturers shared us information that on an average, one worker can earn up to Rs. 20,000 a month (full time) by weaving carpet. The workers are provided lodging and food by the carpet manufacturers. This reduces huge amount of their living expenses. But despite such facilities provided by the carpet manufacturers, they prefer to go abroad where they earn similar amount but need to work in harsh conditions in hope of having a better life thus creating a shortage here.

3.9. The Support Received by the Micro-Entrepreneurs from MEDEP

MEDEP has extended support to the micro-entrepreneurs who are producing Allo whereas the traders and carpet manufacturers have received very least support from MEDEP.

According to MEDEP's MIS database, the support that the micro-entrepreneurs are receiving is in terms of the following¹⁰:

¹⁰ For further detail see annex v

1. Training

The micro-entrepreneurs have received training in Allo processing and cloth weaving.

2. Market linkage and exposure visit

Certain districts have been provided with access to market through exposure visits.

3. Equipment

The micro-entrepreneurs have received equipment that aid them in Allo production such as taan, charkha, electric charkha, chasni karai, flat spoon, gloves, sickle, winding machine, Allo processing machine and Allo yarn weaving machine.

4. Common Facility Center

Common facility centers have been established in certain districts where the Allo producers can share equipment that is too expensive to buy for each individual.

Although MEDEP has been supporting the Allo entrepreneurs in the above mentioned ways, they have not been enough. The training has been provided to limited number of people in limited districts. The equipment that has been provided is getting old and need repairs. The common facility center is being shared by too many people so the entrepreneurs have to wait longer for their turn to use the machines. Also the market linkages and exposure visits are limited in number which is not enough to tap the wide market.

Chapter 4

Findings

- ✓ The records compiled from CCIAN, NCEA, TEPC and Goodweave Foundation Nepal shows that the number of carpet factories currently operating is 240.
- ✓ The type of carpet can be sub-divided into two categories: based on raw materials used and based on knots.
- ✓ The production of carpet is demand driven meaning the manufactures produce carpet only when the order comes from the customers.
- ✓ The market of the carpet industry is almost 95% outside Nepal. USA is the highest importer of Nepalese carpets.
- ✓ The market value of the Nepalese carpets depends upon many factors. However, the basic variation is caused by the type of raw material used and the number of knots per square inch. Among the top raw materials used, silk is the most expensive one (starting from Rs. 7500-15000 per sq meter).
- ✓ The total consumption of Allo by the 22 sample carpet manufacturers is approximately 58,175 kg per annum averaging 2,645 kg per year per carpet factory.
- ✓ Our study shows that the total demand of Allo in the Nepali Carpet Industry is approximately 2, 79,312 kg per year and the total Allo produced in Nepal is 4, 86,180 kg per year making a gap of approximately 2,00,000 kg per year.
- ✓ There are 2,701 Allo yarn producers and 150 Allo traders found during our study with a ratio of 18:1.
- ✓ This study shows 22 sample carpet manufacturers are employing a total of around 1,750 employees only.
- ✓ The supports provided by MEDEP are: Training, Market linkage and exposure visit, Equipment and Common Facility Center.

Chapter 5

Recommendation

Out of the 900+ carpet manufacturers that have been established in Nepal, only 240 are currently operating and from among them, only 44% i.e. 105 are using Allo in manufacturing carpet. The remaining 56%, when asked about the reasons for not using allo, mentioned that low demand from customers and inconsistencies in the supply side are the main reasons for not using Allo in carpets. Thus, to increase the number of carpet manufacturers that use Allo in their carpet, these issues must be resolved.

- To increase the demand of Allo carpets, Nepalese carpet manufacturers should take part in international carpet exhibitions that take place every year in countries like China, Qatar, Iran and others where they can promote Allo carpets as natural, organic fiber carpet. At present, the participation in international carpet exhibition is very limited and is done by individual carpet manufacturers and not by Nepalese carpet industry as a whole. Nepal can also hold such exhibition, focusing mainly in Allo carpets, within the country where international customers and traders can be invited to.

In this regard, MEDEP can arrange for talks between concerned authorities such as Ministry of Industry, Central Carpet Association, Nepal Carpet Exporters' Association, Federation of Nepalese Chamber of Commerce and Industries to conduct international level carpet exhibition in Nepal.

- A video documentary about Allo can be made and broadcast using mass media for awareness and promotion in both national and international levels.
- Inconsistencies in the supply side come in form of volume, price and quality. Because of these, carpet manufacturers are not sending samples of Allo carpet to their customers because they fear that they will not be able to match the orders due to these inconsistencies. Thus to maintain consistency, Allo yarn supply to carpet factories must be institutionalized.

If the demand of Allo carpets increase and all 240 carpet factories that are in operation at present start using allo at present rate, then the total demand of Allo in the Nepalese carpet industry will increase to 6,34,800 kg per year while the current

supply is 4,86,180 kg per year. This shows that the supply will not be enough to match demand by around 1, 50,000 kg per year.

- To increase supply, training centers can be established in Allo growing districts so that more people can learn how to produce Allo yarn. According to the database from MEDEP, only 7 districts have been facilitated with training programs and other supports.
- More carding machines must be provided to Allo producers so that Allo production becomes less time consuming and more volume can be produced in short time. We have found that MEDEP has supported Allo producers in 7 districts with machines like Charka, Sewing Machine, Weaving Machine, etc. (See Annex VI). However, they have become old and need maintenance.
- Around 95% of the carpet manufacturers are located here in Kathmandu. Therefore districts nearer to Kathmandu like Dolakha, Sindhuli, Ramechhap, Kabhre, Sindhupalchowk and Nuwakot should be focused to produce Allo yarn to reduce the cost of transportation.
- Cultivation or plantation of Allo must also be started to fulfill future demand. Previous studies show no cultivation of Allo by anyone till date. Only the naturally available plant has been harvested to produce the fiber.

Nepalese carpets are in competition with Indian and Chinese carpets in both national and international markets. Nepalese carpets are losing their market share since Indian and Chinese carpets are around 30% cheaper than Nepalese ones. This is mainly because governments of countries provide subsidy in double digit figures while Nepali government is providing only 1-2% cash incentives to Nepali manufacturers while exporting. Moreover, just to redeem that low incentive, the manufacturers have to go through very lengthy procedure; so many small manufacturers don't go for it.

- For Nepali carpets to remain competitive in the market, the government should increase the percentage of cash incentive provided to carpet manufacturers. Moreover, since Allo is locally available unlike other raw materials used in carpet, more subsidy or cash incentive should be provided by the government for using Allo in carpet to attract carpet manufacturers. MEDEP can advocate for providing more cash incentive or subsidy to Nepalese carpet industries.

Chapter 6

Conclusion

During the early 1990s, carpet export from Nepal was around 3.3 million sq. m. while at present; it is close to 600,000 sq. m. Although the carpet industry is not doing as good as it did during the 1990s, Nepalese hand knotted carpets are still the top export item of Nepal. Since almost all of the other raw materials used in preparing carpets are imported, using locally available Allo is better for the Nepalese economy as a whole since it acts as an import substitute and also provides more income generating opportunities to the Nepalese people.

If consistency in quantity and quality of Allo yarn can be maintained along with good promotion at national and international levels, the carpet manufacturers are confident that they can consume Allo carpets in huge scale. Thus there is huge potential for use of Allo in the carpet industry.

Therefore, all agencies must prioritize the Nepali Carpet Industry which has a high value contribution to the national economy by being the top export item of Nepal and providing direct and indirect employment opportunities to many.

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Annexes

Annex I. Questionnaire for carpet manufacturers

Name of the firm			
Address			
Year of establishment			
1. List the raw materials that you use in manufacturing carpets along with the annual volume (kg).			
<input type="checkbox"/> Wool _____ <input type="checkbox"/> Silk _____ <input type="checkbox"/> Hemp _____ <input type="checkbox"/> Allo _____ <input type="checkbox"/> Others (please specify) : _____			
2. List the types of carpet that you produce in your factory annually along with the volume, market value and amount of Allo used in them.			
Type of carpet	Volume (sq.m)	Market value (Rs.)	Allo used (kg)
3. Disaggregate your sales according to national & international market in %. For the international market, also mention the name of the importing countries.			
<input type="checkbox"/> Domestic _____ <input type="checkbox"/> International _____ Importing countries: _____ _____ _____			
4. How much is the demand of Allo-carpet (in sq m) annually?			
Domestic _____ International _____			
5. Are you able to produce Allo-carpet as per market demand? If not, why?			
<input type="checkbox"/> Yes <input type="checkbox"/> No Reason: _____			
6. What is needed to scale up the Allo carpet demand?			

<input type="checkbox"/> Awareness related to Allo and its benefits <input type="checkbox"/> Branding of the carpet <input type="checkbox"/> Provide better quality <input type="checkbox"/> Set competitive price <input type="checkbox"/> Increase promotional activities <input type="checkbox"/> Others (please specify):	
7. What form of Allo do you buy? What is the buying rate?	
Form of Allo	Buying rate (per kg)
<input type="checkbox"/> Raw Allo bark <input type="checkbox"/> Fiber <input type="checkbox"/> Yarn <input type="checkbox"/> Others (please specify):	
8. Where do you get the Allo from?	
Form of Allo	Suppliers
Raw Allo bark Fiber Yarn Others(please specify):	
9. Are you able to buy Allo as much as you need? If not, give reason.	
<input type="checkbox"/> Yes <input type="checkbox"/> No If no, reason:	
10. Are there any other problems in the supply of Allo? If yes, what are they?	
<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, they are:	
11. How many workers do you have in your factory?	
<input type="checkbox"/> Skilled _____ <input type="checkbox"/> Semi-skilled _____	
12. Do you have enough workers to meet demand? If not, how many more do you need and with what skill?	
<input type="checkbox"/> Yes <input type="checkbox"/> No	
Skill	Number of additional workers required

13. What problems do you face regarding the following?	
Supply chain of Allo	<input type="checkbox"/> Untimely supply <input type="checkbox"/> Pricing problem <input type="checkbox"/> Quality problem <input type="checkbox"/> Quantity problem <input type="checkbox"/> Packaging problem <input type="checkbox"/> Transportation problem <input type="checkbox"/> Others (please specify):
Exporting of Allo-carpet	<input type="checkbox"/> High tax <input type="checkbox"/> Many legal requirements <input type="checkbox"/> Unsupportive regulations <input type="checkbox"/> Others (please specify):
Branding of Allo-carpet	<input type="checkbox"/> Unawareness of Allo and its benefits <input type="checkbox"/> Brand value not well developed <input type="checkbox"/> Others (please specify):
Other problems in carpet manufacturing	<input type="checkbox"/> Decreasing demand <input type="checkbox"/> Less skilled manpower available <input type="checkbox"/> Increase in International competition <input type="checkbox"/> Time consumption in the Production of Allo <input type="checkbox"/> Others (please specify):
14. Describe the benefits of using these raw materials in carpet.	
Raw material	Benefits
Wool	
Silk	
Hemp	
Allo	
Others (please specify):	

Annex II. Questionnaire for producers

Name		
Number of years in the business		
Number of people involved		
1. What process of Allo production are you involved in?		
<input type="checkbox"/> Plantation <input type="checkbox"/> Harvesting <input type="checkbox"/> Processing <input type="checkbox"/> Yarn making <input type="checkbox"/> Others (please specify):		
2. What form of Allo do you produce and sell? Also mention the annual volume (in kg).		
Form of Allo		Annual volume (kg)
<input type="checkbox"/> Raw Allo bark <input type="checkbox"/> Allo fiber <input type="checkbox"/> Allo yarn <input type="checkbox"/> Others (please specify):		
3. Who are your buyers? At what price do you sell?		
Form of Allo	Buyers	Selling rate (Rs./kg)
Raw Allo bark Allo fiber Allo yarn Others (please specify):		
4. What is the annual demand of Allo?		
Form of Allo		Annual demand (in kg)
Raw Allo bark Allo fiber Allo yarn Others (please specify):		
5. The harvesting season of Allo is August- December; does this affect the demand-supply of Allo?		
<input type="checkbox"/> Yes <input type="checkbox"/> No <u>Reason:</u>		
6. What are the problems faced in Allo production?		

<input type="checkbox"/> Time consuming process <input type="checkbox"/> Permission from authorities to harvest Allo <input type="checkbox"/> Unable to meet demand <input type="checkbox"/> Lack of skilled manpower <input type="checkbox"/> Lack of equipment <input type="checkbox"/> Lack of market access <input type="checkbox"/> Lack of marketing knowledge with the producers <input type="checkbox"/> Others (please specify):
7. What can be done to increase the production of Allo?
<input type="checkbox"/> Commercial cultivation of Allo <input type="checkbox"/> Training for Allo farming and processing <input type="checkbox"/> Use of better technology <input type="checkbox"/> Increase the number of skilled workers <input type="checkbox"/> Others (please specify):
8. Have you received any support from MEDEP? If yes, what kind of support?
<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, the kind of support are <input type="checkbox"/> Exposure visit <input type="checkbox"/> Equipment and machines <input type="checkbox"/> Training <input type="checkbox"/> Common Facility Center (CFC) <input type="checkbox"/> Others (please specify):

Annex III. Questionnaire for traders

Name of the firm/ individual		
Address		
Number of years in the business		
No of people involved in trade		
1. What form of Allo do you trade in? Also mention the annual volume.		
Form of Allo		Volume (kg)
<input type="checkbox"/> Raw Allo bark <input type="checkbox"/> Fiber <input type="checkbox"/> Yarn <input type="checkbox"/> Others (please specify):		
2. Where do you get the Allo from? Also mention the buying rate.		
Forms of Allo	Suppliers	Buying rate
Raw Allo bark Fiber Yarn Others (please specify):		
3. Who do you supply Allo to and in what form? Also mention the selling rate.		
Buyers	Form of Allo sold	Selling rate
<input type="checkbox"/> Carpet factories <input type="checkbox"/> Handicraft makers <input type="checkbox"/> Others (please specify):		
4. How many carpet factories do you supply? How much do you supply to them annually?		
5. Are you able to match the demand and supply of Allo in carpet industry? If no, give reason.		
<input type="checkbox"/> Yes <input type="checkbox"/> No If no, reason:		
6. What are the problems faced in this trade?		
<input type="checkbox"/> Insufficient supply <input type="checkbox"/> Insufficient demand <input type="checkbox"/> Quality problems <input type="checkbox"/> Pricing problems <input type="checkbox"/> Transportation problems <input type="checkbox"/> Others (please specify):		

Annex IV. Details of People Contacted

S.No	Organization	Contact person	Contact number
1.	Carpet manufacturers	Decorative Rugs	Prajol Dongol 4355579
		Everest Looms	Bala Ram Gurung 4372447
		Excellent Carpet	Mandir Prasad Timilsina 9851026656
		Joshi Carpet Industry	Gopal Krishna Joshi 4471291 9851026143
		Himalaya Nurpu Carpet Industries	Furba Lama 4913286 9841498547
		Kantipur Carpet Craft Industries	Lalit Kumar Agrawal 5250487 2221497
		Madhu Carpet	Madhukar Shrestha 9851058341
		Mahabuddha Carpet	Hira Bahadur Lama 4916006 9851037154
		Master Weaver	Pema Karpoche 5000734
		Mero Rugs	Radip Maharjan 4620103 4620126
		Mila Custom Rugs	Nima Chhomu Lama 4916334
		Nepal Carpet	Purna Man Shakya 4418318
		New Nepal Sagarmatha Carpet Udhyog	Hari B. Jyu Thakuri 4911108 9851037118
		Pranjali Carpet	Arjun Bhattarai 4911961 4912303
		Rainbow Collection Nepal	Ratna S. Tuladhar 5560749
		Rawal Galaicha	Dewol Singh Rawal 9841566195
		Rugs Carpet and Design Pvt. Ltd.	Chandra P Acharya 4289552
		Shantideep Galaicha	Shanti Man Magar 4913728 9849558588
		Sumi Carpet/ P.P. Carpet	Bhakti pd. Adhikari 5015304 9851025461
		T.T. Carpet	Kusang 5250679 5250587

		Ujjwal Carpet	Puspa Maharjan	5203811 9851061476
		Vegetable Carpet	Namjel Karma	4371645 9851035221
2.	Allo Producers	Jas Maya Pun		
		Jung Bahadur Gurung		
		Bipana Gauchan		9847971048
		Dhanmala Buda		9849008825
		Durga Bahadur Sherchan		9847900746
		Govinda BK		9847900945
		Jugmala Sherchan		9847900746
3.	Allo Traders	Manpura Buda		9849005983
		Jas Maya Pun		
		Nawaraj Budhathoki		9851004614
		Bajya Prasad		9849593074
		Dhan Bd. Thapa		9841752731
		Santosh Karki		
4.	Allo Entrepreneurs' Association	Chitrakali Budha		9847820814
		Nanda Rai		9842213139
		Tul Bahadur		9741075880
		Buddhi Purja Magar		9856024493
		Jas Maya Pun		9847652761
		Ganesh Aidi		9851151366
5.	Central Carpet Industries Association	Hari B. Jyu Thakuri		9851037118
		Hira Bd. Lama		9851037154
		Nyima Lama		4916334
6.	Nepal Carpet Exporters' Association	Prakash B. Thapa		
		Samik B Shah		
		Lalit Kumar Agrawal		9851020298
7.	Nepal Foresters' Association	Bijay Paudel		

Annex V. List of Nepalese Carpet Manufacturers

S.No.	Name	Address	Ph. No	Contact Person
1	A.D. Carpet Udyog	Jorpati, Gokarna	9841234789	Nima G.Lama
2	Ajima Rug Home Industries	Boudha, Kumarigal	9851059635 4461453	Raj Shrestha
3	ALPINE NEPAL CARPET PVT. LTD.	Boudha, Kumarigal	4480623 6212799	Chandra Lal Joshi
4	AMATYA M. INTERNATIONAL	Kathmandu	5536035	Manoj K. Amatya
5	Amity Carpet Industries Pvt. Ltd.	Bhaktapur ,Sallaghari	6612232	Lok Darshan Lama
6	Annapurna Carpet Industries	Boudha, Sundar Tole	4914134 4914517	Nima Lama
7	Ansh Carpet Industries & Handicraft	Lalitpur, Thecho	5531897 5536002 9851068419	Dipak P. Ghimire
8	Apex Rugs	Boudha	4480429 9851022369	Tsewang C. Lama
9	Avinash Handicraft Udyog	Jorpati	9851130022	Ram Krishna Tamang
10	Bagmati Carpets P. Ltd.	Kathmandu	4249667 4249855	Pramod Kansakar
11	Bansbari Carpet Udyog	Swoyambhu, Airahiti	4671996 9808903722	Angbabu Sherpa
12	Bhairab Carpet	Lalitpur, Chyasal	9721383069	Binaya Lal Byanjankar
13	Bhrikuti Carpets	Jorpati, Attarkhel	4912867 4912039 4912798	Tenzin Lama
14	Bhutan Devi Carpet	Lalitpur, Chapagaun	9841469339	Kamal Bahadur Gole
15	Bibek Carpet Udyog	Bhaktapur, Duwakot	9851113162	Chhatra Lal Shrestha
16	Bimal Galaincha Udyog	Thali, Milanchowk	4450939 9851005466	Biman Tamang
17	Bomjan Carpet Industries Pvt. Ltd.	Jorpati, Devithan	2141807 9851007232	Suku Man Bomjan
18	Boudha Designer Carpet Pvt. Ltd.	Jorpati, Narayantar	4911235 4910905 9851024464	Sunil Gurung
19	Bright Kanchanjunga Carpet Industries	Boudha, Kumarigal		Padam P. Thulung
20	BSB Carpet	Jorpati, Prabhu colony	12070792 9841405174	Kamal B. Sunuwar
21	Center Rug Crafts	Minbhawan	4100640 9851044433	Samik Bikram Shah
22	Changu Narayan Carpet Udyog	Thali	9841388930	Suk Bahadur Tamang
23	Chhiring Carpet Centre Udyog	Arubari	4913795 9851029456	Chhiring Lama
24	Chhiring Carpet House	Kavresthali	9851013371	Man Kaji Lama
25	Chhyo Rolpa Carpet	Jorpati	9808147611 9851022400	Chhiring Sherpa
26	Chhyo Rolpa Carpet & Handicraft	Jorpati	9851059517 9851023429	Dawa Chhiri Sherpa
27	Chiring Jyang Carpet Udyog	Thali, Milankchowk	9851053166	Dawa
28	Chuney Exports	Boudha	4915685	Tsetan G. Nepali
29	Chuni Devi Carpet Udyog	Budhanilkantha, Chunikhel	9840052317	Jaya Ram Khadka
30	Chyangli Carpet Udyog	Jorpati, Narayantar	4910329 9841598162	Chyangli Sherpini
31	City Carpet Industries	Boudha, Kumarigal	4114115 9803583757	Karma Sherpa

32	Classic Custom Rugs Pvt. Ltd.	Jorpati, Narayantar	4913058 9803041471	Dawa Sherpa
33	Cottage Carpet House	Lalitpur, Chyapat tole	9851031593	Deepak Maharjan
34	CREATIVE RUGS NEPAL (P) LTD.	Subidhanagar, Tinkune	4111780 4111536 4111668	Puskar Pandit
35	Cross Weave Rugs	Arubari, Dandagaun	4916460 9803508999	Suresh Lama Yholmo
36	Decorative Rugs	Maharajgunj	4355579	Prajol Dongol
37	Designer House and Crafts	Boudha	4496753	Bikram Thakuri
38	DNS Handicraft Udyog	Jorpati, Narayantar	9841376657	Dipak Kumar Lama
39	Dolfin Carpet Industries	Jorpati Medical College	9841221781	Ser Sangbo Sherpa
40	Everest Handicraft Industries Inc	Boudha, Chuchepati	4478484	Dorjee Sushil Sherpa
41	Everest Looms	Budhanilkantha	4372447	Bala Ram Gurung
42	Everest Sherpa Carpet Industries	Boudha, Chuchepati	4496363 4483637	Sangel Sherpa
43	Everest Zone Carpet	Maharajgunj	4910163	Pradeep Rai
44	Excellent Carpet	Jorpati	9851026656	Mandir Prasad Timilsina
45	Exotic Oriental Craft Pvt. Ltd.	Lalitpur	5544449	KN Thakur
46	Fishtail Rugs Pvt. Ltd.	Kamalpokhari	4434853 4434394	Basanta Nahata
47	FLOOR MOTION RUGS Udyog	Kapan	4820435 9851130427	Nima Tamang
48	Formation Carpets Pvt. Ltd.	Lalitpur, Ekantakuna	5000273 5000071	Sulochana Shrestha - Shah
49	Ganapati Rug House	Jorpati	4461453 9851093143	Bharat Kumar Shrestha
50	Gandaki Carpet Industry P. Ltd.	Gongabu, Ganesthan	4355045 4353258	Ram Gurung
51	Ganesh Carpet Udyog	Jorpati, Dakshin dhoka	9851056006	Bhuvan Rai
52	Ganga Carpet Udyog	Mulpani, Tiwari tole	2180094 9851058068	Bal Bahadur Tamang
53	Gauri Shankar Carpet Udyog	Thali	4450192	Risangbo Sherpa
54	Gauri Shankar Handicraft	Mulpani	4910329 9851027051	Dhan Shing Sherpa
55	Gauri Shankar Himalayan Carpet Ind.	Kapan	4820435 9851083035	Dawa Tamang
56	Gautam Wool Enterrprise	Koteswor	4990360	Tirtha B. Khatri
57	Ghanzong carpet Manufacturer	Jorpati, Bahundhara	4917153 4916939	Tsultrim G. Lama
58	Ghongar Carpet Industry	Budhanilkantha, Hattigauda	4373893 9851023089	Lobsang Chophel
59	Gomang Carpet Manex	Bhaktapur, Katunje	5092328 9851038825	Lobsang Lama
60	Green Village Galaincha Udyog	Mulpani	9741165918	Kul Prasad Phuyal
61	Gyani Buddha Carpet Udyog	Thali	5092477 9841498439	Harka Lal Zimba
62	Handmade Rugs Pvt. Ltd	Lalitpur, Balkumari	5201774	Gautam M.S. Dangol
63	Himalaya Nurpu Carpet Industries	Jorpati	4913286 9841498547	Furba Lama
64	Himalaya Tsultrim Carpet Industries	Jorpati	4913286	Tshering Lama
65	Himalayan Arts carpet	Boudha, Tinchuli	4915588	Norbu Lama
66	Himalayan Knots and Crafts Pvt. Ltd.	Bhaktapur, Katunje	5092360	Lobsang Lama
67	Himalayan Oriental Crafts	Lazimpat	4001559	Dol Raj Sharma

68	Himalayan Rugs	Chabahil	4478484 4468937	Ang Lamey Sherpa
69	Himalayan Rugs Industries	Jorpati, Narayantar	6207513 4910529	Gyanu Sherpa
70	Himali Rug House	Jorpati, Besigaun	4910537 9851021992	Norbu K.Nepali
71	Hishila Carpet Udyog	Bhaktapur,Bode	6631249 6632340	Krishna S. Shrestha
72	HL Carpet Udyog	Jorpati		Hasta Man Tamang
73	HP Rug Industries	Boudha	9851085434	Chhiring Lama
74	Inter Carpet Manufaturers	Jorpati	2074214/4914968	Tenzing Nepali
75	Ishwor Carpet	Lalitpur, Chyasal	9851021619	Ram Lal Byanjankar
76	J. B. Carpet Udyog	Bhaktapur, Katunje	6614625 9841257744	Jagat Raj Shilpakar
77	Jatan Import Export Pvt Ltd	Chabahil	4499610	Shakti Kumar Begani
78	JB Carpet Industries	Lalitpur, Hattiban	52050787	Amit Bajracharya
79	Jhyanduk Carpet Udyog	Swoyambhu	9851082048	Thogyal Lama
80	Joshi Carpet Industries	Boudha, Tusal	4471291 44894306 9851026143	Gopal Krishna Joshi
81	Jujung Dolma Carpet Udyog	Lalitpur, Tyagal	5570533 9851050745	Kaji Ratna Maharjan
82	Jyoti Lama Carpet Udyog	Jorpati, Atterkhel	4914843 9841569716	Babu Tamang
83	K.M. Carpet Industries			
84	K.R.Carpet Udyog	Lalitpur -8	5551339 9721520139	Kiran Maharjan
85	Kalika Carpet Industries	Boudha, Tusal	465155 4480702 9841334824	Rajendra Krishna Joshi
86	Kalinchowk Handicraft Udyog	Lalitpur, Thecho	9851128290	Sujan Khadka
87	Kalsang Chhiring Handicraft Udyog	Mulpani, Tiwari Tole	9851093379	Namgel Sherpa
88	Kamal Rug Industries	Lalitpur,Satdobato	5532906 5548333	Tsultrim Sherpa
89	Kamala Mai Carpet Udyog	Lalitpur, Dhapakhel	9841421221	Manoj Ghising
90	Kantipur Carpet Craft Industries	Lalitpur, Hattiban	5250487 2221497	Lalit Kumar Agrawal
91	Kantipur Carpet Industries	Shantinagar	4620126 9851077663	Shankar Sharan Kafle
92	Khamsum Carpet Udyog	Lalitpur,Jawalakhel		Khamsum Ongti
93	Khare Carpet Industry	Mulpani, Tiwari Tole	4910717 9841072836	Sambu Sherpa (Pasang)
94	Khumbu Carpet Industries	Budhanilkantha, Chapali	4370061	Samba Lama
95	Khumbu Himal Carpet Industries	Budhanilkantha, Chapali	4370061 4370058	Namkhang Lama
96	Kirti Carpet Industries	Arubari	4914066 491302 9851020785	Bijaya B. Bista
97	Kongpo Carpet Karkahna	Jorpati, Besigaun	2140401 9851012856	Suk ram Lama
98	Kuber Carpet Udyog	Jorpati, Nayabasti	4912703 9851003407	Pasang Sherpa
99	Lama Carpet & Handicraft	Jorpati, Atterkhel	4782421 4782697 9818894301	Raj Kumar Lama
100	Lama Family Handicraft Manufacturer	Bhaktapur, Pandu Bazar Height	5092397 9851063041	Rajesh K. Lama
101	Lanku Galaincha Udyog	Bhaktapur, Sallaghari	9851101022	Lank Man Roka

102	Lekali Carpet Udyog	Boudha, Chuchepati	4800883 9818348204	Dau Chhiri Sherpa
103	Loard Buddha Carpet Udyog	Jorpati, Daxindhoka	4912949 9851096331	Hira Lal Ghalan Lama
104	Looksee Rugs	Boudha	4471055	Sonam S. Lama
105	Lopsang Dhindu Carpet Industries	Jorpati, Atterkhel	4917419 9841274324	Ash B. Tamang
106	Madhu Carpet	Lalitpur, Satdobato	9851058341	Madhukar Shrestha
107	Madhyapachhim Uni Dhago Tatha Galaincha Udyog	Latikoili, Surkhet	9848028571 9851032684	Anka B. Gurung
108	Mahabuddha Carpet Udyog	Boudha, Khaiwa Tole	4916006 9851037154	Hira Bahadur Lama
109	Makawanpur Asa Carpet Udyog	Jorpati	9841225917	Choisang Lama
110	Malka Handicraft Udyog	Jorpati	9808906950	Mingir Sherpa
111	Manakamana Carpet Industries	Bhaktapur, Barahisthan	5092477 9851057102	Tek Bahadur Joshi
112	Manakamana Rug Carpet Udyog	Kiritpur	4671090	Ek Raj Silwal
113	Manakamana Carpet Udyog		9851001194	Ram Sharan Bista
114	Mani Rugs Udhyog	Kapan	4820435 9851128135	Mohan B. Tamang
115	Manjushree Carpet Industries	Jorpati, Bahundhara	9801040105	Ngawang K. Lama
116	Master Weaver	Lalitpur, Ekantakuna	5000734	Pema Karpoche
117	Maya Carpet Udyog	Koteswor	9851046918	Bhim B. Shrestha
118	Megha Carpet Industries Pvt.Ltd	Lalitpur, Sunakothe	9851001295	Madhukar Shrestha
119	Menuka Carpet Udyog	Chabahil	9841264949	Bharat Kumar Shrestha
120	Meyangbo Carpet & Handicraft	Bhaktapur, Katunje	9851054925	Kishor Subba
121	Mila Carpet Industries	Boudha	9851023850	Lopsang Shrestha
122	Mila Custom Rugs	Jorpati, Atterkhel	4916334	Nima Chhomu Lama
123	Milan Carpet		9841697350	Shambhu Thapa
124	Mountain Carpets	Boudha	4411808 9851021131	Ang Gelbu Sherpa
125	Muba Shigache Carpet Udyog	Boudha, Fulbari	9851023124	Chhiring Dhorje
126	N.K.Rugs	Jorpati, Atterkhel	4495349 9851026942	Ang Ngima Sherpa
127	N.P.Rugs Industries	Boudha, Kumarigal	4492517 4478661 9851036239	Tenzing Sherpa
128	Namaste Carpet Nepal Pvt. Ltd	Chabahil	4465820	Mahesh Kumar Aryal
129	Naulo Teppich	Kiritpur	4331812	Ram Hari Khanal
130	Negi Carpet Udyog	Lalitpur, Thecho	9841260458	Ram Bahadur Negi
131	Nepal Carpet Industries	Naxal	4418318	Purna Man Shakya
132	Nepal P.K Carpet Industries	Mulpani	9851027307	Pema Diku Sherpa
133	Nepal Pemba Carpet & Handicraft	Mulpani	9841663262	Tendu Sherpa
134	Nepal Rug Company Pvt Ltd	Kathmandu	4910301	Nawang C. Lama
135	Nepal Rug Industries	Jorpati, Besigaun	4910537 9851035139	Ratna Kaji Shakya
136	New Amrit Carpet Udyog	Jorpati	9841663282	Lakpa Ghyamju Lama
137	New Bagmati Wool Carding Industries	Jorpati, Daxindhoka	9851030690	Krishna Bahadur Khatri
138	New Culture Carpet & handicraft Pvt.Ltd	Boudha	4914227 4914302	Dundup Lama

139	New Daxinkali Carpet Udyog	Jorpati, Nayabasti	9851098643	Arjun Acharya
140	New Horizon Carpet Industry	Balaju	4350131 4350197 9851020343	Deepak Bajracharya
141	New Kantipur Carpet	Boudha Lahuretole	4477318 98 41766235	Bishnu Prasad Dhital
142	New Lila Carpet	Bhaktapur, Suryabinayak	9851009025	Keshab Bahadur Khatri
143	New Nepal Sagarmatha Carpet Udyog	Boudha, Pipalbot	4911108 9851037118	Hari B. Jyu Thakuri
144	New Rajan Carpet Industries	Koteswor	9851020551	Tsharing Tashi Rokaya
145	New Reeta Woolen Carpets	Kathmandu	9851055325 5532225	Jagadishwor Adhikari
146	New Sarashowti Ma Carpet	Lalitpur, Pokhanchho Thechho	9841209847	Nanda K. Maharjan
147	Nirvana Carpet Industries	Jorpati, Besigaun	4912951	Dorje Gyaltzen Lama
148	Nyima Carpet	Jorpati, Atterkhel	4916334 4911884	Nyima Lama
149	Om Namobuddha Carpet	Jorpati	9851090035	Kalu Man Tamang
150	Om Nepal Carpet & Handicraft	Lalitpur, Talchikhel	5574219 9851074219	Hari Prasad Ghimire
151	P M Galaincha Udyog	Thali, Milanchowk	4451253 9741002191	Jit Bahadur Tamang
152	P.D.Carpet Udyog	Jorpati, Daxindhoka	9851075363	Ram Bahadur Ghalan
153	P.L.Carpet Industries	Koteswor	9851044402	Pushpa Lal Shrestha
154	P.P. Galaincha Udyog	Lalitpur, Sainbu	5015304 9851025461	Indra B. Manandhar
155	Palanchowk Handicraft & Sales Pvt.Ltd	Thamel Narsingh Chowk	1441770	Sunil Kumar Adhikari
156	Palbu Carpet Atelier	Boudha, Tinchuli	4470945 9851031516	Sonam Lama
157	Pan Himalayan Carpet Industrieis	Jorpati, Besigaun	2140401 9851012856	Suk Ram Lama
158	Panchpokhari Uni DhagoTtatha Galaincha Udyog	Jorpati		Sarmila Sherpa
159	Paradise Carpet Industries P. Ltd	Boudha	4484162	Dhan Bd. Tamang
160	Paramount Carpet Industries	Gothatar	499123 499124 9851020568	Deepak Kumar Bhattarai
161	Pasang Lhamu Carpet Udyog	Mulpani		Dawa Nuri Sherpa
162	Patan Karnali Carpet Industries Pvt.Ltd	Lalitpur, Gabahal	4910301 9851020556	Nawang Chime Lama
163	Pemasal Carpet	Jorpati, Narayantar	4914508 9851043036	Tarke Sherpa
164	Pemba Carpet Udyog	Jorpati	9841480621	Pemba Tamang
165	Phawashimbu Carpet Udyog'	Jorpati, Narayantar	9851066058	Chyanga Sherpa
166	Pioneer Carpet Industries Pvt. Ltd	Kathmandu	4015500 4015600	Sandeep Sharda
167	Pranjali Carpet Industries	Jorpati	4911961 4912303	Pramod R Satyal
168	Prasai Carpet Udyog	Koteswor	9851046918	Majindra P. Prasai
169	Prava Carpet	Jorpati	9851026656	Shanta Timilsina
170	Purbeli Carpet Center	Chabahil, Majjubahal	4484620 9851031372	Mahendra B.Shrestha
171	Pushpa Carpet	Lalitpur,Harisiddhi	9841417893	Purna Kumar Shrestha
172	Quality Carpet Udyog	Arubari	9808499643	Gyanhari Lama
173	R.H.B. Galaincha Industries	Samakhusi	4352750	Ramhari Panta

			9851039087	
174	R.K.B. Carpet Udyog	Jorpati, Daxindhoka	9841289459	Sarkini Tamang
175	R.T.B.M. Handicraft	Bhaktapur, Sallaghari	9841585164	Bhim Prasad Rokaya
176	Radha Carpet Udyog	Jorpati, Daxindhoka	9841653150	Radha Kumari Pant
177	Rainbow Collection Nepal	LalitpurBande Gaun	5560749	Ratna S. Tuladhar
178	Raktakali Carpet Udyog Pvt.Ltd	Jorpati, Attarkhel	9751001340	Krishna B. Shresatha
179	Ranikot Rug	Boudha, Kumarigal		Padam P. Thulung
180	Ranju Carpet Udyog		9849085059	Purna Lal Shrestha
181	Ranta Carpets	Boudha	4472045 4471156	Sonam Kamsakar
182	Ratna Carpet Udyog	Jorpati, Daxindhoka	9851008182	Ratna Bahadur Shrestha
183	Rautaha Devi Carpet Udyog	Jorpati	9851088269	Rana Bahadur Rai
184	Rawal Galaicha Pasal	Raktakali	9841566195	Dewol Singh Rawal
185	Rising Sun Carpet Udyog	Jorpati, Narayantar	9841973219	Madan Lama
186	Rolpa Carpet Industries	Boudha, Ramhiti	4820053 9851020622	Shambhu B. Thapa
187	Royal Arts Pvt.Ltd	Lalitpur,Talchikhel	5525147 5527895	Krishna Prasad Ghimire
188	RP Carpet Industries	Kathmandu	4474579	Ram Gopal Ghimire
189	Rugs Carpets and Design Nepal Pvt. Ltd	Sitapaila	4289552	Chandra P Acharya
190	S.B. Carpet Udyog	Gongabu	4355460 4373896	Singha Bahadur Tamang
191	Sajis Carpet Udyog	Manamaiju	9851045492	Rajesh Shrestha
192	Samling Carpet Industries Pvt.Ltd	Boudha, Tinchuli	4915149 4915534 9851022291	Sunil Rajbansi
193	Saptabhumi Handi craft Udyog	Jorpati, Makalbari	9841653150	Sunil Lama
194	Sarita Carpet Udyog	Koteshwor	9741025263	Shankha B. Tamang
195	Senon Carpet Industries	Lalitpur, Ekantakuna	5532533 5522665	Sonan Dorje Lama
196	Shantideep Galaincha Udyog	Arubari,Dandagaun	4913728 9849558588	Shanti Man Magar
197	Sharda Carpet & Wool Industries	Boudha, Sanodhara	4821504 984132291	Sharada S. Karnacharya
198	Sher Nepal Craft	Chabahil,Bulbuley	4494169	Bhim Prasad Sherchan
199	Shilwal Carpet Industries	Bhaktapur Thimi	6634533 9851066487	Ganga B. Shilwal
200	Shine Industries	Jorpati, Besigaun	4910537 9851035139	Ratna Kaji Shakya
201	Shree Mahalaxmi Enterpries	Bhaktapur,Katunje	9841405748	Chakra B. Gurung
202	Shreesthi Galaincha Udyog	Lalitpur, Ga hiti	9841298130	Dinesh Maharjan
203	Shrestha Carpet Udyog		9851034646	Prem Shrestha
204	Shubham Carpet Udyog Pvt.Ltd	Jorpati, Daxindhoka	4914653	Narahari Thapa
205	Silk Road Rugs Industries	Boudha, Sundar Tole	4915167 9851020393	Namlang Tenzing
206	Simrik Carpet Industries Pvt Ltd	Lalitpur,Nakhu	55261516	Nabin P Dhar
207	Singhe Carpet P Ltd	Boudha	4471061	Palden Norkyel
208	Stupa Rug International	Boudha	4917689	Norbu T Nepali
209	Sujal GalainchaUdyog	Bhaktapur,Duwakot	6619191 9851068786	Dhiraj Kumar Shrestha
210	Sujan Carpet Nepal	Mahadevsthan, Thankot	4310203	Chandra B. Ghalan

			9841222836	
211	Sumi Carpet Manufacturer	Lalitpur, Sainbu	5015155	Mira Manandhar
212	Suprem Carpet Udyog	Jorpati, Atterkhel	9808228120	Kisan Lama
213	Suraj Carpet		9841315392	Hira Mahat
214	Surendra Carpet Udyog	Jorpati		Dil Maya Shrestha
215	Surya Rug House	Koteshwor	4602446 4602037	Shally Sarawagi
216	T T Carpet Industries	Lalitpur, Hattiban	5250679 5250587	Khusan
217	Tashi Handicraft Industry	Boudha	4916559	Sudin K lama
218	Tashi Takgey Carpet Manufaturer	Budhanilkantha,Narayanthan	4650218 9851021617	Norbu T Lama
219	Thakur Oriental Crafts	Lalitpur	55444449	K N Thakur
220	The Custom Rugs	Jorpati	4910861 9841282034	Shailendra Prasad Joshi
221	The Shangrila Carpet & Handicraft Industries Pvt.Ltd	Jorpati, Besigaon	4911903 9851021003	Tenzing Z. Lama
222	Third Eye International	Jorpati, Besigaun	2140401 9851012856	Suk Ram Lama
223	Tibet Carpet	Budhanilkantha	4371647 9851027400	Tenzing Yuden Lama
224	Tibet Dolma Carpet Industries P Ltd	Jorpati	4914134 4914517	Tenzing c Lama
225	Tibetan Traditional Carpet Industries	Boudha		Tashi P. Budhathoki
226	Tilicho Carpet Udyog	Jorpati, Narayantar	4912289 9841345747	Kedar P. Bhattarai
227	Timal Carpet Udyog	Boudha, Khaiwa Tole	9849443309	Bhakta Lama (Tamang)
228	Tinchuli Carpet Udhog	Swoyambhu	4272052 4281013	Tenzin Gyaltzen
229	Tintara Gaqlaincha Udyog	Mulpani	4910424 9751002737	Tara B. Khamba Lama
230	Tripura Carpet Industries P Ltd	Lalitpur, Bhaisepati	5590357	D B Chand Thakuri
231	Ujjwal Carpet Udyog	Lalitpur, Balkumari	5203811 9851061476	Puspa Maharjan
232	Unik Carpet Udyog	Bhaktapur, Shipadole	9851112462	Yuiba Raj Shrestha
233	Vegetable Carpet Manufacturer	Budhanilkantha	4371645 4370270 9851035221	Namjel Karma
234	Venesh Handicraft	Bhaktapur Thimi	6636972 9851118633	Jagat K. Prajapati
235	Windhorse Carpet Manufacturer Pvt.Ltd	Jorpati, Atterkhel	4912144 9851005700	Ang Dorjee Sherpa
236	Wool Craft Industries	Bhaktapur Thimi	6636972 9851118633	Rajendra B. Prajapati
237	Woolen Carpet Udyog	Kathmandu, Shivapiya Tole	4373531 9841429233	Hari Bahadur Karki
238	Yonjan Carpet Industries	Jorpati	9851014236	Lal dhog Yonjan
239	Zambu Carpet Udyog	Jorpati	9841284154	Maila Tamang
240	Zamkar Carpet Industries	Swoyambhu		Karma Lama

Annex VI. MEDEP's Support to Allo Entrepreneurs

S.No	District	Training	CFC	Exposure visit	Equipment
1	Rolpa	Allo processing and weaving/5	Yes/4	Yes	Tan -10
					Charkha-35
					Electric Charkha -8
					Warping Drum - 4
					Sewing Machine-2
2	Darchula & Dadeldhura	Allo processing and weaving/5	Yes/2	Yes	Allo processing machine- 30
					Chasni karai- 4
					Flat spoon -3
					Allo yarn weaving machine -20
					Gloves -63
					Sickle -65
3	Nuwakot & Dolkha	Tope/Tose/Allo Skill training/ 3	No	No	No
4	Sindhuli	Tope/Tose/Allo Skill training/ 3	No	No	Charkha -4
5	Ramechhap	Allo processing and weaving/6	No	Yes	Allo fabric machine -8
					Winding machine- 4

Source: MEDEP MIS database