

Appendix-VI

Formulation of Master Plan

APPENDIX VI
FORMULATION OF THE MASTER PLAN

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APPENDIX VI

FORMULATION OF THE MASTER PLAN

1. ACTION PLAN

The Master Plan contains 18 projects for development of marketing system and strengthening of agricultural cooperatives. These projects are co-related each other and executed in an efficient way of proper combination and an appropriate schedule. In the implementation of the Master Plan, the phasing and priorities of projects are taken into consideration as an Action Plan.

1.1 Target Year of the Projects

According to the "Platform" of the Mongolian Government, the economic development in the short term is divided into two phases: the first phase during the period from 1996 to 1998 for restructuring state administration and economy and the second phase from 1998 to 2000 for creating appropriate economic structure with self sufficiency and for expanding export as well as proper state administration.

The projects proposed in the Master Plan cover numerous project components and are distributed to the whole country. Implementation of these projects will require long period. Target year of this Master Plan is set as the year of 2010 for the implementation of the projects.

The project development will be carried out stage wise, being taken account of degree of urgency of implementation, easiness of implementation and other aspects. Development stages in this action plan will consist of the initial stage (for 3 years from 1998 to 2000), the second stage (for 5 years from 2001 to 2005) and the third stage (for 5 years from 2006 to 2010).

1.2 Action Plan for Marketing System

There are three projects for development of marketing system: (i) Plan on urban support centers, (ii) Plan on regional marketing centers and (iii) Program on reinforcement of marketing conditions. With respect to the implementation of these plans, the priority should be given to the reinforcement of marketing conditions to provide the fundamental conditions for management of urban support centers and regional marketing centers as well as to promote activities of agricultural cooperatives.

Therefore, the initial stage will be devoted to the (i) preparation of program for reinforcement on marketing conditions and (ii) feasibility studies on part of projects on the Urban Support Centers near Ulaanbaatar. In the second stage, in addition, the implementation of program for reinforcement, most of feasibility studies on urban support centers and regional support centers will be made. At the same time, construction of these centers will be initiated. In the third stage, all the projects will be completed and operational.

1.3 Action Plan for Strengthening of Agricultural Cooperatives

The strengthening of agricultural cooperatives contains a wider spectrum of projects at various levels and different locations. These projects are classified into two kinds of projects: (1) projects to be implemented at the National and Regional levels and (2) projects to be implemented by the unit agricultural cooperative level.

(1) Action Plan at National and Regional Level

There are 5 projects proposed at National and Regional Level: (i) Plan on training and information center in Ulaanbaatar, (ii) Plan on training center in Aimag, (iii) Plan on sales information network, (iv) Plan on reinforcement of publicity and (v) Administrative and legal actions program. With respect to the implementation of these plans, the priority should be given to the project on training and information center in Ulaanbaatar, and the administration and legal action program since these projects provide essential foundation for the implementation of other projects.

(2) Action Plan at Unit Agricultural Cooperative Level

There are 10 projects proposed at unit agricultural cooperative level as follows: (i) Plan on reinforcement of branch's activities of agricultural cooperatives, (ii) Improvement plans on seed and agricultural machinery, (iii) Improvement plan on mill and distribution system of wheat flour, (iv) Vegetables and potatoes production plan, (v) Plan on pasture and fodder crop production and its distribution in winter season, (vi) Plan on improved livestock varieties and veterinary services, (vii) Improvement plan on collection, distribution and processing of wool, (viii) Improvement plan on collection, distribution and processing of cashmere, (ix) Improvement plan on collection, distribution and processing of meat, skin and hide and (x) Improvement plan on social services.

There are about existing 300 agricultural cooperatives and new ones will be newly established in future. Constraints and needs of unit agricultural cooperatives for strengthening of agricultural cooperatives differ according to specific situation of the respective agricultural cooperative. Therefore, project which should be applied to agricultural cooperative also differ by the respective agricultural cooperative.

Mongolia is still in the process of transition from the command economy to the market economy. Most of the existing agricultural cooperatives have no experience of management of agricultural cooperatives under the market economy. Therefore, it is considered necessary as the first step that some agricultural cooperatives, which are able to improve the socio-economic status of farmers and herders and to provide services with the local people in the rural area in the market economy, should be strengthened as a pioneer agricultural cooperative in the future development in the country. As mentioned in the next section, model agricultural cooperatives plan for strengthening of agricultural cooperatives, which include various project components of the above proposed projects, are formulated.

Based on the results and experience obtained from the model agricultural cooperatives plan, the proposed projects for agricultural cooperatives will be undertaken. Based on their performance, agricultural cooperatives are broadly classified into two groups: (i) group one of positive financial status, and (ii) group two negative financial status, and ones of newly established. Feasibility studies on the projects for the group one will be carried out in the initial and second stage and construction of the projects will be finished within the second stage. Regarding the group two, all the feasibility studies, construction work and operation of the projects will be performed within the third stage.

2. PLAN ON MODEL AGRICULTURAL COOPERATIVES

As mentioned in the previous section, the model agricultural cooperatives will play catalytic role to strengthen the unit cooperatives efficiently and smoothly in the country within the limited fund and manpower resources.

2.1 Selection of the Model Agricultural Cooperatives

2.1.1 Grouping of the Agricultural Cooperatives

There are 252 agricultural cooperatives (hereinafter called as ACs) as of the end of 1995 that belong to NAMAC. Among ACs, 215 ACs submitted the 1995 annual report to NAMAC.

Management of ACs are strongly affected by the ecological condition (precipitation, temperature, vegetation, topography), access conditions to markets, livestock animal composition, features of business activities. The income of ACs mainly come from (i) agricultural crops production, (ii) livestock production and (iii) agro-processing/other services.

It is considered reasonable that ACs are classified by income sources. Since income derived from agro-processing/other services in ACs are considerably small, two income sources: (i) agricultural crops production and (ii) livestock production are first considered for grouping of ACs. The ratio of respective sale from crops and livestock to the total amount of sales is calculated. ACs are grouped by the majority ratio as shown in Tables VI-2.1 and VI-2.2.

ACs grows wheat, potatoes, vegetables and other crops. However, as the share of wheat is predominant among agricultural crops production, it is not further sub-divided. There are many kinds of livestock products dealt with by ACs; consisting of meats, skin and hide, intestines, cashmere, goat hard feather, wool, camel's wool, soft and hard feather and others. Livestock income sources are sub-divided into 3 groups: (1) meats, skin and hide, and intestines, (2) cashmere and goat hard feather and (3) wool, camel's wool, hard and soft feather, and others. ACs with the livestock group are sub-divided into 3 groups by the same method of the above.

The number of the subjective ACs for this study amounts to 157 by eliminating ACs with the following conditions:

- (1) ACs of which annual report does not contain items of the amount of sales and expenses
- (2) ACs which were dissolved during the period from 1995 to 1996
- (3) ACs of which gross net profit (the total amount of sales - the total expenses) is negative.

As a result, the grouping of 157 ACs is as follows:

Group	number
(1) Group of Agricultural crop production	20
(2) Group of meat, skin and hide, and intestines production	51
(3) Group of cashmere and goat hard feather	57
(4) Group of wool, camel's wool, hard and soft feather, and others	29

2.1.2 Evaluation for Activity of Agricultural Cooperatives

For selection of the model agricultural cooperatives, activity of each AC is assessed from the following evaluation factors:

- (1) Participation rate of members in the Som: the number of member's households in AC to the total herdsman's household in som where AC locates, indicating degree of activity of AC in view of institutional aspect
- (2) Participation rate of general meeting: member's attendance rate of the 1995 general meeting which may indicate degree to leadership of cadres of AC and member's consciousness to AC
- (3) Scale of AC: indicating the degree of deviation to the average number of member's household (about 250) per AC
- (4) Usage rate for business of AC: the rate of the total amount of sales through the consignment sales to the total amount of sales, indicating degree on activity of cooperative sales business in AC
- (5) Gross profit/member's household and B/C: gross profit per member's household and the rate of the total amount of sales to the total expenses which indicates degree of activity of AC from the financial aspect
- (6) Rate of welfare expense distributed to net profit: the degree of welfare services to members of AC
- (7) Income tax paid per one member's household: the amount of cooperative income tax per one member's household is one of the indicators that AC contributes to the regional economy

It is designed for the evaluation of activity of AC that the weighted points are given to each evaluation factor as follows:

evaluation factor	weighted point
(1) participation rate of member in Som	10
(2) Participation rate to general meeting	5
(3) Scale of AC	5
(4) Usage rate for business of AC	5
(5) Gross profit/one member's household and B/C	60
(6) Rate of welfare expense distributed to net profit	5
(7) Income tax paid per one member's household	5
Total	100

Each evaluation factor is graded as the following table.

Evaluation factor	Grade	Description	Point
(1) participation rate of member in Som	grade-1	below 30 %	0
	grade-2	30-50 %	5
	grade-3	above 50 %	15
(2) participation rate to general meeting	grade-1	below 50 %	0
	grade-2	50-80 %	2.5
	grade-3	above 80 %	5
(3) Scale of AC	grade-1	below 100	2.5
	grade-2	above 350	2.5
	grade-3	100-350	5
(4) Usage rate for business of AC	grade-1	below 5 %	0
	grade-2	5-30 %	5
	grade-3	above 30 %	10
(5) Gross profit/one member's household and B/C	(a) Gross profit/one member's household		
	grade-1	below 0	-5
	grade-2	0-5,000 Tg	7.5
	grade-3	5,000-25,000 Tg	15
	grade-4	25,000-50,000 Tg	20
	grade-5	above 50,000 Tg	30
	(b) B/C		
	grade-1	below 1.0	-5
	grade-2	1.0-1.1	7.5
	grade-3	1.1-1.2	15
	grade-4	1.2-1.3	20
	grade-5	above 1.3	30
(6) Rate of welfare expense distributed to net profit	grade-1	below 5 %	0
	grade-2	above 5 %	5
(7) Income tax paid per one member's household	grade-1	below 500 Tg	0
	grade-2	500-1,000 Tg	2.5
	grade-3	above 1,000 Tg	5

The results of evaluation for activity of 157 ACs on the basis of the above evaluation criteria are calculated in each 4 group of total scores as shown in Tables VI-2.3 and VI-2.6.

2.1.3 Determination of the Number of the Model ACs

It is planned that the number of the Model ACs are 8 in total. The number allocated to each 4 group are decided on the basis of the weighted portion of the number of ACs in each group as follows:

Group	number
(1) Group of Agricultural crop production	1
(2) Group of meat, skin and hide, and intestines production	3
(3) Group of cashmere and goat hard feather production	3
(4) Group of wool, camel's wool, hard and soft feather, and others production	1
Total	8

2.1.4 Selection of the Model ACs

Selection of the model ACs is decided on the basis of the following conditions:

- (1) Total score calculated in evaluation for activity of AC
- (2) Economic development area the Government has planned
- (3) Access to the market of Ulaanbaatar and/or Aimag Centers
- (4) Amount to be dealt with by AC (for only the case of cashmere)
- (5) Other specific factors

In principle, selection is made by the above 5 conditions in order.

Group of agricultural crop production

Bayan Berh AC in Gurvan bulag Som, Bulgan Aimag is selected because of the first rank in the score of evaluation.

Group of meat, skin and hide, and intestines production

In this group, three ACs consisting of the first, the third and the fourth ACs that are ranked in the score of evaluation are selected. They are (1) Yalalt AC in Sagil Som, Uvs Aimag, (2) Galuut AC in Tsagaan ovoo Som, Dornod Aimag and (3) Buyant orgil AC in Gal shar Som, Khenty Aimag. Ardin jargal AC having the second rank in the score of evaluation is eliminated because production of meat, skin and hide, and intestines indicates abnormally high value compared with that of the past.

Group of cashmere, and goat hard feather production

Three ACs consisting of the eighth, the twelfth and the twenty second ACs in the score of evaluation are selected. They are (1) Hujirt AC in Dariv Som, Gobi-Altay Aimag, (2) Tavan Erdene AC in Dorvoljin Som, Zavkhan Aimag and (3) Hugjil AC in Erdene dalai Som, Dundgobi Aimag. In selection, factors of the amount of cashmere dealt with AC, existence of mongrel goat and foreign assistance are considered in addition to the score of evaluation. ACs which deal with less than 3 tons of cashmere and/or have mongrel goats are screened. ACs which are ranked within twenty second in the score of evaluation and eliminated are listed below and reasons of elimination are shown as follows:

Rank	Name of AC	Aimag	Reasons
1	Orgil	Dornogobi	Cashmere dealt with AC is less than 3 tons
2	Tuya	Uvs	do.
3	Goviin hugjil	Dundgobi	do.
4	Altanteel	Uvs	do.
5	Khyargasnuur	Uvs	do.
6	Shine Amdral	Zavkhan	do.
7	Alag hairhan	Gobi-Altay	Foreign assistance
9	Burhan buudai	Gobi-Altay	Cashmere dealt with AC is less than 3 tons
10	Gal shar	Khenty	do.
11	Khamtiin khuch	Khovd	do.
13	Orgil	Dundgobi	do.
14	Burenkhaan	Khuvsgol	do.
15	Soyol	Omnogobi	mongrel goat
16	Govi	Omnogobi	Cashmere dealt with AC is less than 3 tons and Mongrel goat
17	Eh ornii tuloo	Sukbaatar	Cashmere dealt with AC is less than 3 tons
18	Tsog	Uvs	do.
19	Enkhkhodolmor	Uvs	do.
20	Urgats	Bayankhongor	do.
21	Munhruh	Dundgobi	Mongrel goat
22	Unen	Gobi-Altay	Hujirt AC was already selected from Gobi-Altay Aimag
22	Devshil	Gobi-Altay	Hujirt AC was already selected from Gobi-Altay Aimag and cashmere is less than 3 tons
22	Sukhbaatarin zam	Ovorkhangai	Mongrel goat
22	Main negen	Zavkhan	Cashmere dealt with AC is less than 3 tons

Group of wool, camel's wool, hard and soft feather, and others production

Shene urnult AC in Hatanbulag Som, Dornogobi Aimag which is ranked the fourth in the score of evaluation is selected. In selection, factors of the amount of wool and camel's wool dealt with AC, economic development are considered in addition to the score of evaluation. ACs which deal with less than 20 tons of wool and camel's wool are screened. ACs having the first, the second and the third score are eliminated due to the following reasons.

Rank	Name of AC	Aimag	Reasons
1	Goviin hugjil	Gobi-altay	Hujirt AC was already selected from Gobi-Altay Aimag in the group of cashmere and goat hard feather production and have less than 20 tons
2	Hoyor ulziit	Omnogobi	The total amount of wool and camel's wool is less than 20 tons
3	Soyombo	Sukhbaatar	The total amount of wool and camel's wool is less than 20 tons and Buyant orgil AC was already selected from the Eastern Economic Development Area

2.2 Present Condition of Model Agricultural Cooperatives

2.2.1 Bayan Berkh Agricultural Cooperative (main income source: crop)

The Bayan Berkh cooperative is located at Gorvanbulag Som in Bulgan Aimag, Gobi-Khangai Economic Development Region, from 280 km west of Ulaanbaatar. The Som extends on the Khangai mountains of 2,680 km², of which 92% is grazing pasture and 7,000 ha is available for crop cultivation. The Som population at the end of 1996 is 3,600 with 870 households, and 830 households or 95% of the total households obtain the main income from nomadic herding. The total livestock is 134,800 heads, and the average livestock holding size is 160 heads (390 SU: sheep unit) per households. The livestock density of 130 SU/km² is far exceeding the grazing capacity of pasture (58 SU/km²).

The cooperative was established in September 1992, and registered as limited company in July 1996. The member households is 680 or 78% of total households in the Som. The cooperative employs 66 staffs, and owns 1,000 heads of livestock, mainly sheep and goats. The main business are i) production and sales of crops (mainly wheat), ii) sales of animal hair, iii) sales of meat including skin, hide and intestine, iv) supply of daily necessities, and v) social services. The sales in 1996 of 81.2 million Tg consists of 92% by wheat, 7% by livestock products and 1% by hay. The supply of daily necessities is 21.8 million Tg. Total value of sales and supply is 103 million Tg, and total expenses is 92.4 million Tg, accordingly, the profit is 10.7 million Tg. However, the net surplus is almost nil after deducting taxes, social insurance and repayment banks from the profit. The wheat production in 1996 amounted at 1,200 ton harvested from 1,500 ha.

According to the general manager, the sales ratio of livestock product to crops shall be 50:50 in order to expand sales business. In this regards, it is necessary to increase consignment from members through improvement of warehouses and telecommunication between Som center and Bagh branches.

2.2.2 Yalalt Agricultural Cooperative (main income source: meat)

The Yalalt cooperative is located at Tsagaan Ovoo Som in Dornod Aimag, Western Economic Development Region, from 1,200 km east of Ulaanbaatar. The Som extends on the Gobi-Western mountains of 3,800 km², of which 91% is grazing pasture and 700 ha is available for cultivation. The population at the end of 1996 is 2,900 with 650 households, and 380 households obtain the main income from nomadic herding. The total livestock in the Som is 80,200 heads, and the average livestock holding size is 210 heads (230 SU) per households. The number of households owing the livestock size less than 100 heads is 450 households,

livestock between 100 to 200 heads is 120, and livestock over 200 heads is 90. The livestock density of 43 SU/km² is slightly exceeding the grazing capacity of 31 SU/km².

The cooperative was registered as limited company, and is going to register as horsho in September 1997. The member households is 104 or 16% of the total households in Som. The cooperative employs 13 staffs, and owns about 15,000 heads of livestock, mainly sheep. The main business are (i) sales of meat including skin, hide and intestine, (ii) sales of cashmere, (iii) sales of wool, (iv) production of wheat, (v) supply of daily necessities, (vi) social services, and (viii) hay production for self-consumption.

The sales in 1996 is 54.4 million Tg composed of 47% by meat, 20% by animal hair, 15% by skin and hide and 18% by intestine. Wheat is sold in limited amount. The supply of daily necessities is 11.1 million Tg, of which 55% is wheat, and 10% rice. Total value of sales and supply is 65.6 million Tg, total expenses is 48.6 million Tg, accordingly, the business profit is 17.0 million Tg. After deducting taxes and social insurance of 10.4 million Tg from the business profit, the net surplus is about 6.6 million Tg. The net surplus is divided into 30% for dividend and 60% for reserve (welfare expense, investment).

In order to develop the cooperative, the general manager intends to promote (i) expansion of wheat production, (ii) wheat flour milling if electricity available, (iii) felt processing, (iv) fishing in the lake.

2.2.3 Galuut Agricultural Cooperative (main income source: meat)

The Galuut cooperative is located at Tsagaan Ovoo Som in Dornod Aimag, Eastern Economic Development Region, from 660 km east of Ulaanbaatar. The Som extends on the steppe of 6,500 km², of which 88% is grazing pasture and 3,000 ha is available for cultivation. The Som population at the end of 1996 is 3,370 in 750 households, and 61% of total households obtain the main income from livestock. The total livestock is 50,800 heads, and the average livestock holding size is 120 heads (180 SU) per households. The present livestock density is 27 SU/km² far lower than the grazing capacity of 57 SU/km².

The cooperative was registered as limited company, and is going to register as horsho. The member households is 80 or 11% of the total households in Som. The cooperative employs 6 staffs, and owns about 7,500 heads of livestock, mainly sheep. The main business are (i) sales of meat including skin, hide and intestine, (ii) sales of cashmere, (iii) sales of wool, (iv) production and sales of wheat, (v) supply of daily necessities, and (vi) social services. Total value of sales and supply in 1996 is 47.4 million Tg., the total expenses is 22.4 million Tg, accordingly, the business profit is 5.0 million Tg. After deducting taxes of 1.3 million Tg from the business profit, the net surplus is about 3.7 million Tg. The net surplus is divided into 20% for dividend and 80% for reserve (emergency fund, welfare expense, investment).

In order to develop the cooperative, the general manager intends to promote (i) expansion of wheat production, (ii) dairy processing, (iii) telecommunication between Som center and Baghs, (iv) small scale manufacturing like sewing.

2.2.4 Boyant Orgil Agricultural Cooperative (main income source: meat)

The Boyant Orgil cooperative is located at Galshar Som in Khenty Aimag, Eastern Economic Development Region, from 460 km east of Ulaanbaatar. The Som extends over the steppe of 6,680 km², of which 99% is grazing pasture and 15,000 ha is available for hay production. The Som population at the end of 1996 is 2,620 in 610 households, and 69% of total households obtain the main income from livestock. The total livestock in the Som is 112,300 heads, and the average livestock holding size is 270 heads (422 SU) per households. The present livestock density is 38 SU/km² far lower than the grazing capacity of 71 SU/km².

The cooperative was established in 1991, and registered as horsho in July 1997. The member households is 125 or 20% of the total households in Som. The cooperative employs 52 staffs, and owns about 7,800 heads of livestock, mainly sheep and goat. The main business is (i) sales of meat including skin, hide and intestine, (ii) sales of cashmere, (iii) sales of wool, (iv) production and sales of hay, (v) supply of daily necessities, and (vi) social services.

The total sales is 31.2 million Tg consisting of 33% by meat, skin and hide, 45% by cashmere, and 2% by wool. In addition, the cooperative sold 320 ton of hay. The total supply of daily necessities is 12.3 million Tg, of which 24% is wheat, and 30% rice and millet. Total value of sales and supply is 43.5 million Tg, and total expenses is 37.2 million Tg, accordingly, the business profit is 6.3 million Tg. After deducting taxes and social insurance of 1.4 million Tg from the business profit, the net surplus is about 4.9 million Tg. The net surplus is into 55% for dividend and 45% for reserve (welfare expense, investment, emergency fund).

In order to develop the cooperative, the general manager intends to promote (i) establishment of scouring facilities for animal hair, (ii) supply of breeding male goat and improvement of sheep variety, (iii) felt processing, (iv) wood craft work, (v) manufacturing sun-dry brick, (vi) renewal of machinery for hay production, (vii) improvement of slaughtering, hide and skin processing facilities, (viii) wholesale business to deal with products and daily necessities in collaboration with neighboring Soms, (ix) establishment of service center to provide space for various tenant, (x) milk processing and production of dairy product, (xi) improvement telecommunication system between Ulaanbaatar and Som center as well as between Som center and Baghs, (xii) grouping of herders and formation of "Khot Ail", (xiii) improvement of well and promotion of small scale crop production, and (xiv) production and sales of horse milk wine.

2.2.5 Hujirt Agricultural Cooperative (main income source: cashmere)

The Hujirt cooperative is located at Dariv Som in Gobi-Altay Aimag, Western Economic Development Region, from 1,030 km west of Ulaanbaatar. The Som extends over the Gobi to western mountains of 3,520 km², of which 95% is grazing pasture and 200 ha is available for hay production. The Som population at the end of 1996 is 2,110 in 500 households, and 75% of total households obtain the main income from livestock. The total livestock is 111,800 heads, and the average livestock holding size is 220 heads (340 SU) per households. The present livestock density is 51 SU/km² exceeding the grazing capacity of 36 SU/km².

The cooperative was established in 1991, registered as a limited company and changed the name of cooperative to "Bayan Burun" in 1997. The member households is 410 or 82% of the total households in Som. The cooperative employs 14 permanent staffs and 8 to 14 temporary staffs. The cooperative owns no livestock, but the members owns about 77,700 heads of 70% of livestock in the Som. The main business is (i) sales of cashmere, (ii) sales of wool, (iii) sales of meat including skin, hide and intestine, (iv) supply of daily necessities, and (v) social services. The sales is 69.5 million Tg composed of 10% by meat, 59% by cashmere, 17% by wool and camel, and 16% by hide and skin. The total supply of daily necessities is 69.1 million Tg, of which 35% is 28 ton of wheat. The total value of sales and supply is 138.6 million Tg. Total expenses is 118.0 million Tg, accordingly, the business profit is 20.6 million Tg. The net surplus is divided into 40% for dividend, 40% for re-investment, and 5% for welfare.

In order to develop the cooperative, the general manager intends to promote (i) establishment of scouring facilities for animal hair, (ii) processing skin and hide for local demand, (iii) felt processing of wool for local demand, (iv) improvement telecommunication system between Ulaanbaatar and Som center as well as between Som center and Baghs, (v) crop production by rehabilitation of irrigation facility, (vi) improvement of slaughtering, hide and skin processing

facilities, (vii) improvement of collection equipment for animal hair, (viii) improvement of shop and office, and (ix) improvement of power generation.

2.2.6 Tavan Erdene Agricultural Cooperative (main income source: cashmere)

The Tavan Erdene cooperative is located at Dorvoljin Som in Zavkhan Aimag, Western Economic Development Region, from 1,200 km west of Ulaanbaatar. The Som extends over the steppe to Gobi of 7,260 km², of which 72% is grazing pasture and 1,000 ha along the Zavkhan river can be irrigated for hay production. The Som population at the end of 1996 is 2,940 in 630 households, and 76% of total households obtain the main income from livestock. The total livestock is 157,200 heads, and the average livestock holding size is 320 heads (370 SU) per households. The livestock holding size less than 100 heads is 120 households, livestock between 100 to 200 heads is 200, and livestock over 200 heads is 310. The present livestock density is 44 SU/km² slightly exceeding the grazing capacity of 40 SU/km².

The cooperative was established as share-holding company in 1990, and registered a limited company at present. The member households is 400 or 64% of the total households in Som. The cooperative employs 11 permanent staffs, and owns 650 livestock, but the members owns about 125,700 heads of 80% of livestock in the Som. The main business is (i) sales of cashmere, (ii) sales of wool, (iii) sales of meat including skin, hide and intestine, (iv) supply of daily necessities, and v) social services. The sales in 1996 is 160.8 million Tg consisting of 1% by meat, 90% by cashmere, 4% by wool and camel, and 5% by hide and skin. The total supply of daily necessities is 73.7 million Tg, of which 27% is 74 ton of wheat. The total value of sales and supply is 234.5 million Tg, and total expenses is 216.9 million Tg, accordingly, the business profit is 11.2 million Tg. After deducting taxes and social insurance of 4.9 million Tg from the business profit, the net surplus is about 32.5 million Tg.

In order to develop the cooperative, the general manager intends to promote (i) supply of breeding mail to other Soms, (ii) establishment of scouring facilities for animal hair and other processing facilities, (iii) improvement of well for livestock, (iv) hay production by rehabilitation of irrigated pasture, (v) tree fruits processing, (vi) meat sales business of meat and hide & skin processing facilities, (vii) felt processing for local consumption, (viii) improvement telecommunication system between Ulaanbaatar and Som center as well as between Som center and Baghs, (ix) electrification of herders' households by solar panel and wind mill.

2.2.7 Hugjil Agricultural Cooperative (main income source: cashmere)

The Hugjil cooperative is located at Erdenedalay Som in Dund gobi Aimag, Central Economic Development Region, from 250 km west of Ulaanbaatar. The Som extends over the transitional zone between the steppe and Gobi of 7,350 km², of which 99% is grazing pasture. The Som population at the end of 1996 is 7,000 in 1,630 households, and 83% of total households obtain the main income from livestock. The total livestock is 292,900 heads, and the average livestock holding size is 220 heads (350 SU) per households. The present livestock density of 76 SU/km² exceeds more than two times of the grazing capacity of 36 SU/km².

The registration of cooperative has changed to "horsho" form limited company in April 1997. The member households is 980 or 60% of the total households in Som. The cooperative employs 18 management staffs, 88 persons engaging in production activities, and five temporary staffs hired for accounting and negotiators. The cooperative owns 6,500 livestock, and the members owns about 210,000 heads of 75% of livestock in the Som. The main business is (i) sales of cashmere, (ii) sales of wool, (iii) sales of meat including skin, hide and

intestine, (iv) supply of daily necessities, and (v) processing (wood craft, felt, felt boots), (vi) social services.

The total sales of 69.5 million Tg in 1996 consists of 17% by meat, 45% by cashmere, 21% by wool and camel, and 17% by hide and skin. Other sales like processing and manufacturing is also 4.9 million Tg. The total supply of daily necessities is 39.7 million Tg, of which 59% is 76 ton of wheat and 11% is 18 ton of rice and millet. The total value of sales and supply is 114.1 million Tg., and total expenses is 76.7 million Tg, accordingly, the business profit is 32.5 million Tg. The net surplus is divided into 40% for dividend, 30% for re-investment, 12% for welfare, and 18% for reserve for emergency.

In order to develop the cooperative, the general manager intends to promote (i) establishment of scouring facilities for animal hair and other processing facilities, (ii) felt processing for local consumption, (iii) meat processing such as sausage, (iv) improvement of soap processing facilities, (v) improvement of intestine processing facilities, (vi) introduction of small scale industry (juice, ice cream, etc.), (vii) increase of transportation equipment, (viii) improvement telecommunication system, (ix) reinforcement of organization in Bagh level, (x) training of staffs and members, (xi) well drilling equipment, (xii) supplemental school lectures and scholarship to members children.

2.2.8 Shene Urnult Agricultural Cooperative (main income source: wool)

The Shene Urnult cooperative is located at Khanbulag Som in Dornogobi Aimag, Central Economic Development Region, from 650 km west of Ulaanbaatar. The Som extends over the Gobi area of 18,670 km², of which 85% is grazing pasture and 3% is forest. The Som population at the end of 1996 is 2,900 in 700 households, and 80% of total households obtain the main income from livestock. The total livestock is 125,000 heads, and the average livestock holding size is 230 heads (360 SU) per households. The present livestock density of 17 SU/km² lower than the grazing capacity of 32 SU/km².

The cooperative was established in 1991, and registered as a limited company. The member households is 230 or 42% of the total households in Som. The cooperative employs 13 staffs. The cooperative owns only 1,670 livestock, and the members owns about 74,500 heads of 75% of livestock in the Som. The main business is (i) sales of wool, (ii) sales of meat including skin, hide and intestine, (iii) supply of daily necessities, and (iv) transportation, and (vi) social services. The total sales of 63.2 million Tg in 1996 consists of 60% by meat, 20% by camel hair, 4% by wool, and 7% by hide and skin. The sales of power generation and transportation is service 4.3 million Tg and 1.1 million Tg, respectively. The total supply of daily necessities is 18.5 million. The total value of sales and supply is 81.7 million Tg, and total expenses is 78.1 million Tg, accordingly, the business profit is 3.6 million Tg. After deducting taxes and social insurance of 0.8 million Tg from the business profit, the net surplus is about 2.7 million Tg. The net surplus is divided into 60% for dividend, 15% for re-investment, 15% for welfare, and 10% for reserve for emergency.

For further development of the cooperative, the general manager intends to promote (i) mechanization of wool clipping, water pumping from well, (ii) Introduction of scouring wool and camel hair, (iii) felt processing, (iv) processing of skin and hide, (v) electrification of herders' households, (vi) improvement telecommunication system, (vii) milk and dairy processing, (viii) meat processing, (ix) manufacturing of camel cart, (x) shower and bath facilities for Khot Ail, (xi) utilization of natural pasture and small scale vegetable production by well development.

2.2.9 Altan Tuvth Agricultural Cooperative (Mongolian Herders' Cooperative Association)

The Altan Tuvth cooperative is located at Bogd Som in Övörkhongai Aimag, Khangai-Gobi Economic Development Region, from 870 km west of Ulaanbaatar. The Som extends over the Gobi and Altay mountains of 10,160 km², of which 95% is grazing pasture and 500 km² forest, and 500 ha available for cultivation. The Som population at the end of 1996 is 5,210 in 1,220 households, and 85% of total households obtain the main income from livestock. The total livestock in the Som at the end of 1996 is 247,200 heads, and the average livestock holding size is 200 heads (285 SU) per households. The livestock density of 36 SU/km² slightly exceeds the capacity of 32 SU/km².

The cooperative was established in July 1996 under the Independent Herders Association. The number of members are 25 households, which own 2,170 heads of livestock. The main business is sales of cashmere and wool, supply of daily necessities, and vegetable production for local consumption.

2.2.10 Kharnuden Cooperative (Mongolian Herders' Cooperative Association)

The Kharnuden cooperative is located at Khairkhandulaan Som in Övörkhongai Aimag, Khangai-Gobi Economic Development Region, from 720 km west of Ulaanbaatar. The Som extends over the Khangai mountains of 4,140 km², of which 99% is grazing pasture and 500 ha is available for cultivation. The population at the end of 1996 is 4,620 in 1,230 households, and 78% of total households obtain the main income from livestock. The total livestock is 132,700 heads, and the average livestock holding size is 110 heads (234 SU) per households. The livestock density of 70 SU/km² slightly exceeds the capacity of 52 SU/km².

The cooperative was established in October 1995 under the Independent Herders Association. The number of members are 25 households, which own 2,780 heads of livestock. The main business is production of butter cream, sales of cashmere and butter, supply of daily necessities, and vegetable production for local consumption.

2.3 The Project

The list of project components for strengthening model agricultural cooperatives, as outlined in Table 4.2.7, is prepared based on the natural and social conditions peculiar to each model cooperatives, taking into account the wishes obtained from the cadres and members, and then, the components are selected for each model cooperative.

The project in each model cooperatives aims to increase crop and livestock production, reduce marketing cost of inputs, products and daily necessities, put added-value on products by introduction of processing, improve the quality of products, expand consignment sale in order to increase bargaining power, train and educate the staff and members, and provide social service to the members, as shown below:

(1) Bayan Berkh Model Agricultural Cooperative for Wheat Production and Sales

The strengthening of Bayan Berkh cooperatives, located at Gorvanbulag Som in Bulgan Aimag, is planned for expansion of wheat production and sales, processing of wheat grains, increase of consignment sales from the members, establishment of electric power supply necessary for processing, improvement of communication, and improvement of social services. This contains the following plans proposed in the Master Plan;

- No. 1 Plan on Reinforcement of Branches of Agricultural Cooperative,
- No. 2 Sales Information Network Plan
- No. 3 Improvement Plan on Seed and Agricultural Machinery,
- No. 4 Improvement Plan of Mill and Distribution System of Wheat,
- No. 8 Improvement Plan on Collection and Processing of Wool,
- No. 9 Improvement Plan on Collection and Processing of Cashmere, and
- No. 14 Improvement Plan on Social Services.

(2) Yalalt Model Agricultural Cooperative for Meat Sales

(3) Galuut Model Agricultural Cooperative for Meat Sales

The Yalalt cooperative located at Sagil Som in Uvs Aimag, and the Galuut cooperative located at Tsagaan Owoo Som in Dornod Aimag, are planned in the same way to strengthen on increase in production and sales of meat, skin & hide and intestines, processing of meat and other products, increase consignment sales from the members, establishment of electric power supply necessary for processing, introduction of small scale vegetable production and water supply to livestock, improvement of telecommunication, and improvement of social services. This contains the following plans proposed in the Master Plan;

- No. 1 Plan on Reinforcement of Branches of Agricultural Cooperative,
- No. 2 Sales Information Network Plan
- No. 5 Vegetables and Potatoes Production Plan,
- No. 8 Improvement Plan on Collection and Processing of Wool,
- No. 9 Improvement Plan on Collection and Processing of Cashmere,
- No. 10 Improvement Plan on Collection and Processing of Meat, Skin and Hide, and
- No. 14 Improvement Plan on Social Services.

(4) Buyant Orgil Model Agricultural Cooperative for Meat Sales

The Buyant Orgil cooperative, located at Galshar Som in Khenty Aimag, is planned to strengthen on increase in production and sales of meat, skin & hide and intestines, processing of meat and other products, increase consignment sales from the members, establishment of electric power supply necessary for processing, introduction of small scale vegetable production and water supply to livestock, construction of warehouses for marketing products and daily necessities for Soms nearby, improvement of tele-communication, and improvement of social services. This contains the following plans proposed in the Master Plan;

- No. 1 Plan on Reinforcement of Branches of Agricultural Cooperative,
- No. 2 Sales Information Network Plan
- No. 5 Vegetables and Potatoes Production Plan,
- No. 8 Improvement Plan on Collection and Processing of Wool,
- No. 9 Improvement Plan on Collection and Processing of Cashmere,
- No. 10 Improvement Plan on Collection and Processing of Meat, Skin and Hide, and
- No. 14 Improvement Plan on Social Services.
- No. 17 Plan on Regional Marketing Centers.

(5) Hujirt (currently Boyan Brun) Agricultural Cooperative for Cashmere Sales

The Hujirt or Boyan Brun cooperative, located at Dariv Som in Gobi Altay Aimag, is planned to strengthen on increase in production and sales of cashmere, processing of animal hair, increase consignment sales from the members, establishment of electric power supply necessary for processing, introduction of small scale vegetable production and water supply to

livestock, improvement of telecommunication, and improvement of social services. This contains the following plans proposed in the Master Plan;

- No. 1 Plan on Reinforcement of Branches of Agricultural Cooperative,
- No. 2 Sales Information Network Plan
- No. 5 Vegetables and Potatoes Production Plan,
- No. 8 Improvement Plan on Collection and Processing of Wool,
- No. 9 Improvement Plan on Collection and Processing of Cashmere,
- No. 14 Improvement Plan on Social Services.

(6) Tavan Erdene Agricultural Cooperative for Cashmere Sales

The Tavan Erdene cooperative, located at Dorvoljin Som in Zavkhan Aimag, is planned to strengthen on increase in production and sales of cashmere, pre-processing of animal hair, increase consignment sales from the members, establishment of electric power supply necessary for processing, introduction of small scale vegetable production and water supply to livestock, improvement of telecommunication, and improvement of social services. This contains the following plans proposed in the Master Plan;

- No. 1 Plan on Reinforcement of Branches of Agricultural Cooperative,
- No. 2 Sales Information Network Plan
- No. 5 Vegetables and Potatoes Production Plan,
- No. 7 Plan on Production of Improved Variety of Livestock and Veterinary Services,
- No. 8 Improvement Plan on Collection and Processing of Wool,
- No. 9 Improvement Plan on Collection and Processing of Cashmere,
- No. 14 Improvement Plan on Social Services.

(7) Hujil Agricultural Cooperative for Cashmere Sales

The Hujil cooperative, located at Erdene Dalay Som in Dundgobi Aimag, is planned to strengthen on increase in production and sales of cashmere and other animal hair as well as meat, skin & hide and intestines, processing of meat and other products, increase consignment sales from the members, establishment of electric power supply necessary for processing, improvement of telecommunication, and improvement of social services. This contains the following plans proposed in the Master Plan;

- No. 1 Plan on Reinforcement of Branches of Agricultural Cooperative,
- No. 2 Sales Information Network Plan
- No. 5 Vegetables and Potatoes Production Plan,
- No. 8 Improvement Plan on Collection and Processing of Wool,
- No. 9 Improvement Plan on Collection and Processing of Cashmere,
- No. 10 Improvement Plan on Collection and Processing of Meat, Skin and Hide, and
- No. 14 Improvement Plan on Social Services.

(8) Shene Urnult Agricultural Cooperative for Wool and Camel Hair

The Shene Urnult cooperative, located at Khatanbulag Som in Dornogobi Aimag, is planned to strengthen on increase in production and sales of wool, camel hair and other animal hair as well as meat, skin & hide and intestines, processing of meat and other products, increase consignment sales from the members, construction on animal dipping bath, establishment of electric power supply necessary for processing, improvement of telecommunication, and improvement of social services. This contains the following plans proposed in the Master Plan;

- No. 1 Plan on Reinforcement of Branches of Agricultural Cooperative,
- No. 2 Sales Information Network Plan
- No. 5 Vegetables and Potatoes Production Plan,
- No. 8 Improvement Plan on Collection and Processing of Wool,
- No. 9 Improvement Plan on Collection and Processing of Cashmere,
- No. 10 Improvement Plan on Collection and Processing of Meat, Skin and Hide, and
- No. 14 Improvement Plan on Social Services.

(9) Altan Tevt Agricultural Cooperatives for Mongolian Association of Private Herders

(10) Kharnuridin Agricultural Cooperatives for Mongolian Association of Private Herders

The Altan Tevt cooperative located at Bogd Som in Övörkhangaï Aimag, and the Kharnuridin cooperative located at Khaïrkhandulaan Som in Övörkhangaï Aimag, are in the same way planned to strengthen on increase in production and sales of cashmere and other animal hair as well as meat, skin & hide and intestines, processing of meat and other products, increase consignment sales from the members, and improvement of social services. This contains the following plans proposed in the Master Plan;

- No. 1 Plan on Reinforcement of Branches of Agricultural Cooperative,
- No. 2 Sales Information Network Plan
- No. 5 Vegetables and Potatoes Production Plan,
- No. 8 Improvement Plan on Collection and Processing of Wool,
- No. 9 Improvement Plan on Collection and Processing of Cashmere,
- No. 14 Improvement Plan on Social Services.

2.4 Cost Estimation

The cost necessary for strengthening of model cooperatives are estimated on the basis on the assumptions that (i) the exchange rate is US\$1.0 = Tg.800 = ¥120 as of mid 1997, (ii) cost includes construction of buildings, establishment of facilities and installation of equipment, (iii) operation and maintenance cost as well as cost for guidance and training are excluded from the estimation, (iv) no price escalation is considered in the cost estimation..

The total cost is estimated at US\$ 32,650 million for strengthening of all 10 model agricultural cooperatives, as summarized below (Table 4.2.3);

		(US\$1,000)
Main income source	Model cooperative	Cost
1. Wheat	Bayan Berkh (Gorvanbulag in Bulgan)	9,370
2. Meat, skin & hide, and intestine	Yalat (Sagil in Bulgan)	2,000
	Galuut (Tsagaan Ovoo in Dornod)	2,000
	Boyant Orgil (Galshar in Khenty)	2,800
	Sub-total	6,800
3. Cashmere	Hujirt (Dariv in Gobi Altay)	1,940
	Tavan Erdene (Dorvoljin in Zavkhan)	8,970
	Hugjil (Erdene dalai in Dundgobi)	2,090
	Sub-total	13,000
4. Wool and camel hair	Shene Urnult (Khatanbulag, Dornogobi)	2,680
5. Cooperatives registered in MAPH*	Altan Tevht (Bogd, Övörkhangaï)	400
	Khaninuridin (Khaïrkhand., Övörkhangaï)	400
	Sub-total	800
6. Grand total		32,650

Remark: * MAPH: Mongolian Association of Private Herders

2.5 Impacts and Effect Expected by the Project

Through strengthening of model agricultural cooperatives, the following impacts and effects are expected:

(1) Effects to agricultural cooperative business

- Increase of participation rate of herders in the cooperative,
- Improvement of production, quality and value added,
- Attainment of stable supply of products and daily necessities,
- Improvement of pasture utilization by rehabilitation and increase of wells,
- Strengthening of bargaining power through increase of consignment sales,
- Increase of hay and feed supply,
- Year-round sales of meat by processing,
- Improvement of efficiency in collection of products, supply of daily necessities and transmission of information through formation of Khot Ail and herders' small groups.

(2) Impacts to members, their households and local habitants

- Improvement of income and living condition of cooperative members,
- Attainment of stable supply of daily commodities,
- Reduction of heavy work load,
- Formation of Khoto Ail and herders' small groups enable transfer traditional knowledge between generations as well as maintain social morality,

(3) Socio-economic impacts within the Som

- Revitalization of local economy in the Som,
- Creation of employment opportunity in facilities like processing,
- Improvement of local food security in the Som,
- Improvement of social security in the Som through formation of herders' small groups.

(4) Effects to other agricultural cooperatives in nearby Soms

- Demonstration effect to the results of strengthening of model cooperatives,
- Collection, processing and sales of products through model cooperatives,
- Supply of daily necessities from model cooperatives,
- Activation of the regional economy in Soms nearby model cooperatives,
- Propagation of marketing information to Soms nearby.

3. PLAN ON TRAINING AND INFORMATION CENTER IN ULAANBAATAR

Provision of information to and training of AC members has not been conducted at any level from unit agricultural cooperatives to NAMAC. Accordingly, training and continuous dissemination of information shall be essential to develop cooperative spirit among members

and to promote their active participation in cooperative activities. Particularly, it is important (i) to achieve sound financial condition of cooperative, (ii) to lead cooperatives to sound management units through the increase of consignment sales from members, (iii) to train young leaders with the enough knowledge of accountant and marketing and business sense, (iv) to increase the cooperative members by the revitalization of cooperative activities as well as the infiltration of the needs and importance of cooperatives into many herders.

The training programs in the center shall be intended to senior and replaced members of cooperatives.

The training programs shall include administration for sound cooperative management, accounting, general management technique, computer operation, knowledge on communication, etc. The center shall play an important role in exchanging the experiences, information and views on cooperatives among trainees and result in revitalization of cooperative activities.

The organization of the Training and Information Center shall consist of five departments: (1) training department, (2) information department, (3) demonstration department, (4) accommodations department, and (5) facility management department.

The training department shall be responsible for the operation of training programs. As for training facilities, one training room with the capacity of 50 persons, two training rooms with the capacity of 30 persons, and three discussion rooms with the capacity of 15 persons shall be constructed. In addition, one computer training room shall be established with 15 units of computers.

The information section shall consist of information collection section, broadcasting material section, and printing and publishing section. The major role of the department shall be the collection and processing of market data and information in Mongolia. A satellite communication system shall be introduced in this department in order to enable the department to communicate with nation-wide cooperatives.

The demonstration department shall be composed of products demonstration section, equipment demonstration section, and video production section. The main activities shall include the collection of cooperative products, display of the production process and new and innovative machinery that can be useful for the agricultural development in the country. Video programs for the explanation of machinery operation and high quality products shall be produced and presented to trainees and visitors.

The accommodations department shall be responsible for providing lodging services to trainees. The proposed facilities include 13 rooms with the capacity of four persons, bath and shower rooms, a laundry room, a drying room, a kitchen, a dining/recreation/common room.

The facility management department shall be responsible for the maintenance of buildings and vehicles including a minibus for observation tour and management of a garage and storage rooms for equipment, fuel and oil.

The management of the Training and Information Center shall be undertaken by NAMAC with the support AAACs under the supervision of the Ministry of Agriculture and Industry. For the proper management, a management council shall be established. The council member shall be seven including the manager of the Center, a representative from NAMAC, one representative each from four Economic Development Regions. The major functions of the council shall be to set up the training objectives, candidates of trainees and training period as well as training programs. The Center has to submit annual report to MAI according to the basic policy to be established by the council.

The lecturers shall be fulfilled within the country. However, experts from cooperative institutions in Asian countries and developed countries with the success story of cooperative activities shall be invited as lecturers particularly for the initial year.

Tables

Table-VI.2.1 Summary of 1995 Sales Business (3/6)

Unit	Aging Code	Aging Name	Declassified Regulate Probs No Sales Date	Name of cooperative	Member or company	Sum located	Livestock Sales	Crop Sales	Total	Livestock by Pen				Crops				Total																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
										Head, Sows, Weaners and Cullings and Cull Heifer and Females and Others	Head	Sows and Weaners	Females	Soybean	Wheat	Corn	Vegetables	Other (cattle)	Total (cattle)	Value	Proportion																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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00-01	11	Omigaple		Hufan	C	Budge	88%	4%	100%	3%	2%	2%	3%	10T0	10T1	10T2	10T3	10T4	10T5	10T6	10T7	10T8	10T9	10T10	10T11	10T12	10T13	10T14	10T15	10T16	10T17	10T18	10T19	10T20	10T21	10T22	10T23	10T24	10T25	10T26	10T27	10T28	10T29	10T30	10T31	10T32	10T33	10T34	10T35	10T36	10T37	10T38	10T39	10T40	10T41	10T42	10T43	10T44	10T45	10T46	10T47	10T48	10T49	10T50	10T51	10T52	10T53	10T54	10T55	10T56	10T57	10T58	10T59	10T60	10T61	10T62	10T63	10T64	10T65	10T66	10T67	10T68	10T69	10T70	10T71	10T72	10T73	10T74	10T75	10T76	10T77	10T78	10T79	10T80	10T81	10T82	10T83	10T84	10T85	10T86	10T87	10T88	10T89	10T90	10T91	10T92	10T93	10T94	10T95	10T96	10T97	10T98	10T99	10T100	10T101	10T102	10T103	10T104	10T105	10T106	10T107	10T108	10T109	10T110	10T111	10T112	10T113	10T114	10T115	10T116	10T117	10T118	10T119	10T120	10T121	10T122	10T123	10T124	10T125	10T126	10T127	10T128	10T129	10T130	10T131	10T132	10T133	10T134	10T135	10T136	10T137	10T138	10T139	10T140	10T141	10T142	10T143	10T144	10T145	10T146	10T147	10T148	10T149	10T150	10T151	10T152	10T153	10T154	10T155	10T156	10T157	10T158	10T159	10T160	10T161	10T162	10T163	10T164	10T165	10T166	10T167	10T168	10T169	10T170	10T171	10T172	10T173	10T174	10T175	10T176	10T177	10T178	10T179	10T180	10T181	10T182	10T183	10T184	10T185	10T186	10T187	10T188	10T189	10T190	10T191	10T192	10T193	10T194	10T195	10T196	10T197	10T198	10T199	10T200	10T201	10T202	10T203	10T204	10T205	10T206	10T207	10T208	10T209	10T210	10T211	10T212	10T213	10T214	10T215	10T216	10T217	10T218	10T219	10T220	10T221	10T222	10T223	10T224	10T225	10T226	10T227	10T228	10T229	10T230	10T231	10T232	10T233	10T234	10T235	10T236	10T237	10T238	10T239	10T240	10T241	10T242	10T243	10T244	10T245	10T246	10T247	10T248	10T249	10T250	10T251	10T252	10T253	10T254	10T255	10T256	10T257	10T258	10T259	10T260	10T261	10T262	10T263	10T264	10T265	10T266	10T267	10T268	10T269	10T270	10T271	10T272	10T273	10T274	10T275	10T276	10T277	10T278	10T279	10T280	10T281	10T282	10T283	10T284	10T285	10T286	10T287	10T288	10T289	10T290	10T291	10T292	10T293	10T294	10T295	10T296	10T297	10T298	10T299	10T300	10T301	10T302	10T303	10T304	10T305	10T306	10T307	10T308	10T309	10T310	10T311	10T312	10T313	10T314	10T315	10T316	10T317	10T318	10T319	10T320	10T321	10T322	10T323	10T324	10T325	10T326	10T327	10T328	10T329	10T330	10T331	10T332	10T333	10T334	10T335	10T336	10T337	10T338	10T339	10T340	10T341	10T342	10T343	10T344	10T345	10T346	10T347	10T348	10T349	10T350	10T351	10T352	10T353	10T354	10T355	10T356	10T357	10T358	10T359	10T360	10T361	10T362	10T363	10T364	10T365	10T366	10T367	10T368	10T369	10T370	10T371	10T372	10T373	10T374	10T375	10T376	10T377	10T378	10T379	10T380	10T381	10T382	10T383	10T384	10T385	10T386	10T387	10T388	10T389	10T390	10T391	10T392	10T393	10T394	10T395	10T396	10T397	10T398	10T399	10T400	10T401	10T402	10T403	10T404	10T405	10T406	10T407	10T408	10T409	10T410	10T411	10T412	10T413	10T414	10T415	10T416	10T417	10T418	10T419	10T420	10T421	10T422	10T423	10T424	10T425	10T426	10T427	10T428	10T429	10T430	10T431	10T432	10T433	10T434	10T435	10T436	10T437	10T438	10T439	10T440	10T441	10T442	10T443	10T444	10T445	10T446	10T447	10T448	10T449	10T450	10T451	10T452	10T453	10T454	10T455	10T456	10T457	10T458	10T459	10T460	10T461	10T462	10T463	10T464	10T465	10T466	10T467	10T468	10T469	10T470	10T471	10T472	10T473	10T474	10T475	10T476	10T477	10T478	10T479	10T480	10T481	10T482	10T483	10T484	10T485	10T486	10T487	10T488	10T489	10T490	10T491	10T492	10T493	10T494	10T495	10T496	10T497	10T498	10T499	10T500	10T501	10T502	10T503	10T504	10T505	10T506	10T507	10T508	10T509	10T510	10T511	10T512	10T513	10T514	10T515	10T516	10T517	10T518	10T519	10T520	10T521	10T522	10T523	10T524	10T525	10T526	10T527	10T528	10T529	10T530	10T531	10T532	10T533	10T534	10T535	10T536	10T537	10T538	10T539	10T540	10T541	10T542	10T543	10T544	10T545	10T546	10T547	10T548	10T549	10T550	10T551	10T552	10T553	10T554	10T555	10T556	10T557	10T558	10T559	10T560	10T561	10T562	10T563	10T564	10T565	10T566	10T567	10T568	10T569	10T570	10T571	10T572	10T573	10T574	10T575	10T576	10T577	10T578	10T579	10T580	10T581	10T582	10T583	10T584	10T585	10T586	10T587	10T588	10T589	10T590	10T591	10T592	10T593	10T594	10T595	10T596	10T597	10T598	10T599	10T600	10T601	10T602	10T603	10T604	10T605	10T606	10T607	10T608	10T609	10T610	10T611	10T612	10T613	10T614	10T615	10T616	10T617	10T618	10T619	10T620	10T621	10T622	10T623	10T624	10T625	10T626	10T627	10T628	10T629	10T630	10T631	10T632	10T633	10T634	10T635	10T636	10T637	10T638	10T639	10T640	10T641	10T642	10T643	10T644	10T645	10T646	10T647	10T648	10T649	10T650	10T651	10T652	10T653	10T654	10T655	10T656	10T657	10T658	10T659	10T660	10T661	10T662	10T663	10T664	10T665	10T666	10T667	10T668	10T669	10T670	10T671	10T672	10T673	10T674	10T675	10T676	10T677	10T678	10T679	10T680	10T681	10T682	10T683	10T684	10T685	10T686	10T687	10T688	10T689	10T690	10T691	10T692	10T693	10T694	10T695	10T696	10T697	10T698	10T699	10T700	10T701	10T702	10T703	10T704	10T705	10T706	10T707	10T708	10T709	10T710	10T711	10T712	10T713	10T714	10T715	10T716	10T717	10T718	10T719	10T720	10T721	10T722	10T723	10T724	10T725	10T726	10T727	10T728	10T729	10T730	10T731	10T732	10T733	10T734	10T735	10T736	10T737	10T738	10T739	10T740	10T741	10T742	10T743	10T744	10T745	10T746	10T747	10T748	10T749	10T750	10T751	10T752	10T753	10T754	10T755	10T756	10T757	10T758	10T759	10T760	10T761	10T762	10T763	10T764	10T765	10T766	10T767	10T768	10T769	10T770	10T771	10T772	10T773	10T774	10T775	10T776	10T777	10T778	10T779	10T780	10T781	10T782	10T783	10T784	10T785	10T786	10T787	10T788	10T789	10T790	10T791	10T792	10T793	10T794	10T795	10T796	10T797	10T798	10T799	10T800	10T801	10T802	10T803	10T804	10T805	10T806	10T807	10T808	10T809	10T810	10T811	10T812	10T813	10T814	10T815	10T816	10T817	10T818	10T819	10T820	10T821	10T822	10T823	10T824	10T825	10T826	10T827	10T828	10T829	10T830	10T831	10T832	10T833	10T834	10T835	10T836	10T837	10T838	10T839	10T840	10T841	10T842	10T843	10T844	10T845	10T846	10T847	10T848	10T849	10T850	10T851	10T852	10T853	10T854	10T855	10T856	10T857	10T858	10T859	10T860	10T861	10T862	10T863	10T864	10T865	10T866	10T867	10T868	10T869	10T870	10T871	10T872	10T873	10T874	10T875	10T876	10T877	10T878	10T879	10T880	10T881	10T882	10T883	10T884	10T885	10T886	10T887	10T888	10T889	10T890	10T891	10T892	10T893	10T894	10T895	10T896	10T897	10T898	10T899	10T900	10T901	10T902	10T903	10T904	10T905	10T906	10T907	10T908	10T909	10T910	10T911	10T912	10T913	10T914	10T915	10T916	10T917	10T918	10T919	10T920	10T921	10T922	10T923	10T924	10T925	10T926	10T927	10T928	10T929	10T930	10T931	10T932	10T933	10T934	10T935	10T936	10T937	10T938	10T939	10T940	10T941	10T942	10T943	10T944	10T945	10T946	10T947	10T948	10T949	10T950	10T951	10T952	10T953	10T954	10T955	10T956	10T957	10T958	10T959	10T960	10T961	10T962	10T963	10T964	10T965	10T966	10T967	10T968	10T969	10T970	10T971	10T972	10T973	10T974	10T975	10T976	10T977	10T978	10T979	10T980	10T981	10T982	10T983	10T984	10

Table-VI.2.3 List of Candidates for Model Cooperatives (Crop)

Unit	Aimags Code	Aimags Name	Name of cooperative	Honor/Company	Som located	1.		2.		3.		4.		5.		6.		7.		8.	
						Participation Rate in the Som		Participation Rate to General Meeting		Scale of Agricultural Cooperative		Usage Rate for Business of Agricultural Cooperatives		Benefit Cost Ratio and Profit per Household		Rate of Welfare Cost to Net Profit		Income Tax per Member Household		Total	
						Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point	Rank	Point
BU-04	4	Bulgan	Rayta borh	-	Cherem bulag	3	5.0	3	5.0	2	5.0	1	0.0	3	60.0	1	0.0	3	2.0	1	80.0
TO-03	14	Tov	Zaamar	K	Zaamar	3	10.0	3	5.0	2	5.0	1	0.0	5	60.0	1	0.0	1	0.0	2	80.0
BU-02	4	Bulgan	Bayan bugat	-	Bugat	3	10.0	3	5.0	2	5.0	1	0.0	45	52.5	1	0.0	1	0.0	3	72.5
HE-09	18	Khovsgol	Bayan undar	C	Murus	1	0.0	3	5.0	1	2.5	1	0.0	45	52.5	2	5.0	3	5.0	4	70.0
HU-04	17	Khovsgol	Utan-Od	C	Kabzarot	2	5.0	3	5.0	2	5.0	3	10.0	3	30.0	2	5.0	2	2.5	5	62.5
HE-06	18	Khovsgol	Utan od	H	Bayan adrag	3	10.0	2	2.5	2	5.0	1	0.0	3	30.0	2	5.0	3	5.0	6	57.5
HU-08	17	Khovsgol	Narasolgoi	C	Tomorbuleg	1	0.0	1	0.0	1	2.5	1	0.0	4	45.0	2	5.0	3	5.0	7	57.5
AR-06	1	Arkhangai	Bayanbend	K	Creber	1	0.0	3	5.0	2	5.0	2	5.0	3	30.0	2	5.0	3	5.0	8	55.0
AR-11	1	Arkhangai	Haaburgatai	K	Huot	1	0.0	3	5.0	1	2.5	1	0.0	35	37.5	2	5.0	3	5.0	9	55.0
BU-03	4	Bulgan	Durban	-	Burbangai	3	10.0	3	5.0	2	5.0	1	0.0	3	30.0	2	5.0	1	0.0	10	55.0
BU-09	4	Bulgan	Hishig Undor	-	Hishig undor	3	10.0	3	5.0	2	5.0	1	0.0	3	30.0	1	0.0	1	0.0	11	50.0
TO-01	14	Tov	Negded	H	Lun	1	0.0	3	5.0	1	2.5	3	10.0	5	30.0	1	0.0	1	0.0	12	47.5
BU-01	4	Bulgan	Thireedui	K	Bayan agt	3	10.0	3	5.0	2	5.0	1	0.0	2	15.0	2	5.0	1	0.0	13	40.0
ZA-19	9	Zavkhan	Partizan Chovalsan	C	Aldarkhaan	3	10.0	1	0.0	3	2.5	2	5.0	2	15.0	1	0.0	3	5.0	14	37.5
BU-06	4	Bulgan	Mandah	-	Orbon	2	5.0	3	5.0	2	5.0	1	0.0	2	15.0	2	5.0	1	0.0	15	35.0
AR-01	1	Arkhangai	Aran taria	K	Ugiuoor	3	10.0	2	2.5	3	2.5	1	0.0	2	15.0	1	0.0	1	0.0	16	30.0
UV-18	15	Uvs	Khodgan	C	Davst	2	2.5	2	2.5	2	5.0	1	0.0	2	10.0	2	5.0	1	0.0	17	25.0
SU-11	12	Sukhbaatar	Hugrik	C	Ongon	2	5.0	2	2.5	2	5.0	1	0.0	1	-10.0	1	0.0	1	0.0	18	2.5
AR-04	1	Arkhangai	Bayanzurb	K	Huot	1	0.0	2	2.5	2	5.0	1	0.0	1	-10.0	1	0.0	1	0.0	19	-2.5
OY-02	10	Ovorkhangai	Th boregdol	K	Burd	1	0.0	2	2.5	1	2.5	1	0.0	1	-10.0	1	0.0	1	0.0	20	-5.0

Selected Cooperative

Table-VI.2.4 List of Model Cooperatives (Meat, Skin, Hide and Intestines) (1/2)

Unit	Aiming Code	Aiming Name	Name of cooperative	Member/Company	Som located	1.		2.		3.		4.		5.		6.		7.		8.	
						Participation Rate in the Som		Participation Rate to General Meeting		Scale of Agricultural Cooperative		Usage Rate for Business of Agricultural Cooperatives		Benefit Cost Ratio and Profit per Household		Rate of Welfare Cost to Net Profit		Income Tax per Member Household		Total	
						Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point
UV-20	15	Uva	Yala	C	Sag	3	10.0	2	2.5	2	5.0	3	10.0	4.5	52.5	2	5.0	3	5.0	2	97.5
DU-04	8	Dundgobi	Andia jargal	C	Bayan jargalan	3	10.0	3	5.0	2	5.0	3	10.0	4.5	52.5	1	0.0	3	5.0	2	87.5
RE-01	7	Dundgobi	Cheloo	C	Tsagaan ooo	2	6.4	1	0.0	2	5.0	3	10.0	5	60.0	2	5.0	3	5.0	3	85.0
RE-04	14	Dundgobi	Bayan erga	C	Olunur	2	5.9	2	2.5	2	5.0	1	0.0	4	40.0	2	5.0	3	5.0	4	82.5
UV-19	13	Uva	Escoerde	C	Atalchin	1	0.0	3	5.0	1	2.5	3	10.0	4.5	52.5	2	5.0	3	5.0	5	80.0
DD-03	7	Dorood	Tug	C	Bulgan	2	5.0	1	0.0	1	2.5	1	0.0	5	60.0	2	5.0	3	5.0	6	77.5
DO-06	6	Dorogobi	Socializm zam	C	Mandah	1	0.0	1	0.0	1	2.5	2	5.0	5	60.0	2	5.0	3	5.0	7	77.5
GA-08	5	Gobi Altay	Hodolmor	C	Toohil	1	0.0	3	5.0	1	2.5	1	0.0	5	60.0	2	5.0	3	5.0	8	77.5
DO-01	6	Dorogobi	Och	H	Airag	3	10.0	2	2.5	2	5.0	1	0.0	4	45.0	2	5.0	3	5.0	9	72.5
TO-10	14	Tov	Sukhbataria zam	K	Sergeia	3	10.0	1	0.0	3	2.5	2	5.0	4	45.0	2	5.0	3	5.0	10	72.5
SU-07	12	Sukhbatar	Dugshin bulag	C	Umag's center	1	0.0	3	5.0	1	2.5	1	0.0	4.5	52.5	2	5.0	3	5.0	11	70.0
HU-14	17	Khuvsgol	Negdechia	C	Moron	1	0.0	1	0.0	1	2.5	1	0.0	5	60.0	1	0.0	3	5.0	12	67.5
DD-09	7	Dorood	Eheli	H	Bayan dun	1	0.0	3	5.0	1	2.5	3	10.0	3.5	37.5	2	5.0	3	5.0	13	65.0
HU-12	17	Khuvsgol	Angin Uodul	C	Chadmani Oudor	3	10.0	2	2.5	2	5.0	2	5.0	3.5	37.5	1	0.0	3	5.0	14	65.0
SU-10	12	Sukhbatar	Jargalin zam	C	Erdene tsagaan	3	10.0	2	2.5	3	2.5	2	5.0	3.5	37.5	2	5.0	2	2.5	15	65.0
TO-05	14	Tov	Erdene-ual	K	Erdene	1	0.0	3	5.0	2	5.0	1	0.0	4	45.0	2	5.0	3	5.0	16	65.0
UV-08	15	Uva	Tegobayast	C	Zoukhanga	2	5.0	2	2.5	2	5.0	3	10.0	3.5	37.5	2	5.0	1	0.0	17	65.0
DO-02	6	Dorogobi	Sbene sarun zam	C	Ahan sbene	1	0.0	2	2.5	1	2.5	3	10.0	3.5	37.5	2	5.0	3	5.0	18	62.5
UV-01	15	Uva	Tsagaanbaikhan	C	Zoukhara	1	0.0	2	2.5	2	5.0	1	0.0	4	45.0	2	5.0	3	5.0	19	62.5
DO-04	6	Dorogobi	Zalun kuch	C	Delgerch	3	10.0	2	2.5	2	5.0	3	10.0	2.5	22.5	2	5.0	3	5.0	20	60.0
KO-04	16	Khovd	Jargalin zam	C	Bulgan	2	5.0	2	2.5	3	2.5	3	10.0	3	30.0	2	5.0	3	5.0	21	60.0
DO-11	6	Dorogobi	Gench zam	C	Hubsgul	3	10.0	2	2.5	2	5.0	1	0.0	3	30.0	2	5.0	3	5.0	22	57.5
HE-10	18	Khety	Gul	C	Herfen	1	0.0	3	5.0	1	2.5	3	10.0	3	30.0	2	5.0	3	5.0	23	57.5
DO-07	6	Dorogobi	Sacae amdral	C	Uigua T.Z	2	5.0	2	2.5	2	5.0	3	10.0	2.5	22.5	2	5.0	3	5.0	24	55.0
DU-05	8	Dundgobi	Davshin zam	C	Curvasuban	1	0.0	2	2.5	3	2.5	3	10.0	3	30.0	2	5.0	3	5.0	25	55.0
KO-03	16	Khovd	Noyon Moolh-Orgil	C	Mookhbairkhan	2	5.0	2	2.5	2	5.0	1	0.0	3.5	37.5	1	0.0	3	5.0	26	55.0
TO-06	14	Tov	Herfen	K	Mungun moit	1	0.0	2	2.5	1	2.5	1	0.0	4	45.0	1	0.0	3	5.0	27	55.0
ZA-03	9	Zavkhan	Deyan uul	C	Ulasan	3	10.0	2	2.5	2	5.0	1	0.0	3.5	37.5	1	0.0	1	0.0	28	55.0
HE-07	18	Khety	Jargalan	C	Noochia	1	0.0	2	2.5	1	2.5	1	0.0	3.5	37.5	2	5.0	3	5.0	29	52.5
DO-03	6	Dorogobi	Tunya	C	Dalan jargalan	1	0.0	2	2.5	3	2.5	2	5.0	3	30.0	2	5.0	3	5.0	30	50.0
DU-01	8	Dundgobi	Negdinl bodolgon	C	Delgeroogt	3	10.0	2	2.5	2	5.0	3	10.0	2	15.0	2	5.0	2	2.5	31	50.0
DU-09	8	Dundgobi	Tsagaan zalun	C	Tsagaan delger	1	0.0	2	2.5	3	2.5	3	10.0	3	30.0	1	0.0	3	5.0	32	50.0
GA-05	5	Gobi Altay	Badal	C	Delger	1	0.0	2	2.5	2	5.0	3	10.0	2.5	22.5	2	5.0	3	5.0	33	50.0

Table-VI.2.4 List of Model Cooperatives (Meat, Skin, Hide and Intestines) (2/2)

Unit	Aiming Code	Aiming Name	Name of cooperative	Member/Company	Som located	1.		2.		3.		4.		5.		6.		7.		8.	
						Participation Rate in the Som		Participation Rate to General Meeting		Scale of Agricultural Cooperative		Usage Rate for Business of Agricultural Cooperatives		Benefit Cost Ratio and Profit per Household		Rate of Welfare Cost to Net Profit		Income Tax per Member Household		Total	
						Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point
HU-11	17	Khuvsgol	Enkh amdral	C	Tseerieg	3	10.0	2	2.5	3	2.5	1	0.0	3	30.0	1	0.0	3	5.0	34	50.0
UV-13	15	Uva	Danyig	C	Khovd	1	0.0	2	2.5	2	5.0	1	0.0	3.5	37.5	2	5.0	1	0.0	35	50.0
GA-16	5	Gobi Altay	Bayanbulag	C	Haliin	1	0.0	3	5.0	1	2.5	1	0.0	3	30.0	2	5.0	3	5.0	36	47.5
BH-03	3	Bayankhongor	Bayan nurva	H	Khuree naral	1	0.0	2	2.5	1	2.5	3	10.0	2.5	22.5	2	5.0	2	2.5	37	45.0
GA-17	5	Gobi Altay	50 gi	C	Eran bulag	1	0.0	3	5.0	1	2.5	3	10.0	2.5	22.5	1	0.0	3	5.0	38	45.0
SU-04	12	Sukhbatar	Mookh hangai	C	Tuvshin sbene	1	0.0	2	2.5	2	5.0	1	0.0	3.5	37.5	1	0.0	1	0.0	39	45.0
HE-04	18	Khety	Sbene uruul	C	Umnodelger	3	10.0	1	0.0	3	2.5	3	10.0	2	15.0	2	5.0	1	0.0	40	42.5
HU-10	17	Khuvsgol	Badal	C	Tsagaanul	2	5.0	2	2.5	3	2.5	2	5.0	2.5	22.5	1	0.0	3	5.0	41	42.5
OV-21	10	Ovorkhangai	Hurent	C	Targut	1	0.0	1	0.0	1	2.5	2	5.0	3	30.0	1	0.0	3	5.0	42	42.5
AR-09	1	Arkhangai	Oeshbazad	H	Ikhanur	1	0.0	3	5.0	1	2.5	1	0.0	2.5	22.5	2	5.0	3	5.0	43	40.0
OV-14	10	Ovorkhangai	Hanbayan baikian	H	Uyang	1	0.0	1	0.0	3	2.5	2	5.0	2.5	22.5	2	5.0	2	2.5	44	37.5
HU-09	17	Khuvsgol	Yalagt	C	Tuel	3	10.0	1	0.0	3	2.5	3	10.0	2	10.0	1	0.0	1	0.0	45	32.5
SU-05	12	Sukhbatar	Han uul	C	Sukhbataria zam	1	0.0	3	5.0	1	2.5	1	0.0	2.5	22.5	1	0.0	1	0.0	46	30.0
AR-07	1	Arkhangai	Bickigt hangai	K	Under ulaan	1	0.0	2	2.5	2	5.0	1	0.0	2	15.0	2	5.0	1	0.0	47	27.5
DO-05	6	Dorogobi	Bayan bet	C	Ih bet	3	10.0	2	2.5	2	5.0	1	0.0	2	10.0	1	0.0	1	0.0	48	27.5
DO-08	6	Dorogobi	Goon baguil	C	Saltan ulaan	1	0.0	2	2.5	2	5.0	3	10.0	2	10.0	1	0.0	1	0.0	49	27.5
DD-06	7	Dorood	Negdechia	C	Herfen	1	0.0	2	2.5	1	2.5	1	0.0	2	15.0	2	5.0	1	0.0	50	25.0
DO-14	6	Dorogobi	Tsolmon	H	Sainshand	1	0.0	1	0.0	1	2.5	1	0.0	2	10.0	1	0.0	1	0.0	51	12.5

Selected Cooperative

Table-VI.2.5 List of Model Cooperatives (Cashmere and Goat Hair) (1/2)

Unit	Aimags Code	Aimags Name	Name of cooperative	Hembo/Company	Som located	1.		2.		3.		4.		5.		6.		7.		8.	
						Participation Rate in the Som		Participation Rate to General Meeting		Scale of Agricultural Cooperative		Usage Rate for Business of Agricultural Cooperatives		Benefit Cost Ratio and Profit per Household		Rate of Welfare Cost to Net Profit		Income Tax per Member Household		Total	
						Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point	Rank	Point
DO-09	6	Dornogobi	Orgil	C	Ulaan badrah	3	100	2	25	2	50	3	100	4	400	2	50	3	50	1	77.5
UV-11	15	Uva	Tya	C	Tarihan	2	50	1	00	2	50	3	100	4	400	2	50	3	50	2	70.0
DU-12	8	Dundgobi	Govin begji	H	Mandigovi	1	00	3	50	1	25	3	100	4	400	2	50	3	50	3	67.5
UV-04	15	Uva	Akanteel	C	Tarihan	1	00	2	25	2	50	3	100	4	400	2	50	3	50	4	67.5
UV-02	15	Uva	Khargasaur	C	Khargas	2	50	2	25	2	50	3	100	3.5	350	2	50	2	2.5	5	65.0
ZA-14	9	Zavkhan	Shire amdral	C	Zavkhanmandal	3	100	3	50	2	50	3	100	3	300	1	00	3	50	6	65.0
GA-02	5	Gobi-Altay	Alag hairhan	C	Bogat	0	100	3	50	3	25	3	100	2.5	250	2	50	3	50	7	62.5
GA-04	5	Gobi-Altay	Erden bolai	C	Erden bolai	3	100	2	25	2	50	3	100	3	300	2	50	3	50	8	62.5
GA-19	5	Gobi-Altay	Burhan buccan	C	Erden bolai	1	00	3	50	1	25	3	100	3.5	350	2	50	3	50	9	62.5
HE-02	18	Khovd	Gal shar	C	Gal shar	2	50	2	25	2	50	3	100	3	300	2	50	3	50	10	62.5
KO-06	16	Khovd	Khantia khuch	C	Jargalant	1	00	3	50	1	25	1	00	4.5	450	2	50	3	50	11	62.5
ZA-09	9	Zavkhan	Terna Erden	C	Dorvoljin	2	50	2	25	2	50	3	100	3	300	1	00	3	50	12	60.0
DU-07	8	Dundgobi	Orgil	C	Saiban ovoo	0	100	2	25	3	25	3	100	2.5	250	2	50	3	50	13	60.0
HU-02	17	Khovsgol	Burenkhann	C	Burenlogtokh	1	00	3	50	2	50	2	50	3.5	350	2	50	3	50	14	60.0
OM-02	11	Omnogobi	Soyol	C	Gurzan tes	3	100	2	25	3	25	3	100	2.5	250	2	50	2	2.5	15	57.5
OM-09	11	Omnogobi	Govi	C	Dalanzadgad	1	00	3	50	1	25	1	00	4	400	2	50	3	50	16	57.5
SU-01	12	Sukhbaatar	Eh ornai taloo	C	Bayan delger	2	50	3	50	3	25	3	100	2.5	250	2	50	3	50	17	57.5
UV-06	15	Uva	Taag	C	Omnogobi	1	00	2	25	2	50	3	100	3	300	2	50	3	50	18	57.5
UV-10	15	Uva	Enkhbodooinor	C	Orgil	2	50	2	25	2	50	3	100	2.5	250	2	50	3	50	19	57.5
BH-10	3	Bayankhongor	Urguu	C	Orgil	3	100	3	50	3	25	3	100	2	200	2	50	2	2.5	20	55.0
KO-06	8	Dundgobi	Monbruh	C	Ulsit	3	100	2	25	3	25	3	100	2.5	250	1	00	3	50	21	55.0
DU-08	8	Dundgobi	Hegji	C	Erden bolai	3	100	2	25	3	25	3	100	2.5	250	2	50	3	50	22	55.0
GA-09	5	Gobi-Altay	Uvan	C	Touhil	3	100	3	50	3	50	3	100	2	200	1	00	3	50	23	55.0
GA-10	5	Gobi-Altay	Devshit	C	Utsel	2	50	1	00	2	50	3	100	2.5	250	2	50	3	50	24	55.0
OV-16	10	Ovorkhangai	Sukhbaatarin zam	C	Bogd	3	100	2	25	3	25	1	00	3	300	2	50	3	50	25	55.0
ZA-07	9	Zavkhan	Main negen	C	Tsagaan chubut	3	100	3	50	2	50	1	00	3	300	1	00	3	50	26	55.0
OM-06	11	Omnogobi	Bayasumber	C	Servri	3	100	2	25	2	50	3	100	2	200	2	50	1	00	27	52.5
HU-03	17	Khovsgol	Ganulga	C	Jargalant	1	00	1	00	2	50	3	100	2.5	250	2	50	3	50	28	50.0
KO-02	16	Khovd	Bayasgalant amdral	C	Mankhan	3	100	2	25	3	25	1	00	2.5	250	2	50	3	50	29	50.0
OV-07	10	Ovorkhangai	Bayan govi	C	Baruus bayan ulaan	3	100	2	25	3	25	3	100	2	200	2	50	1	00	30	50.0
OV-11	10	Ovorkhangai	Aldar	C	Gochin us	3	100	2	25	3	25	1	00	2.5	250	2	50	3	50	31	50.0
OV-14	10	Ovorkhangai	Bayas hairhan	C	Zaunbayan ulaan	3	100	2	25	3	25	1	00	2.5	250	2	50	3	50	32	50.0
BH-04	3	Bayankhongor	Hah bard	H	Khureemural	1	00	2	25	1	25	3	100	2.5	250	2	50	2	2.5	33	47.5

Table-VI.2.5 List of Model Cooperatives (Cashmere and Goat Hair) (2/2)

Unit	Aimags Code	Aimags Name	Name of cooperative	Hembo/Company	Som located	1.		2.		3.		4.		5.		6.		7.		8.	
						Participation Rate in the Som		Participation Rate to General Meeting		Scale of Agricultural Cooperative		Usage Rate for Business of Agricultural Cooperatives		Benefit Cost Ratio and Profit per Household		Rate of Welfare Cost to Net Profit		Income Tax per Member Household		Total	
						Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point	Rank	Point
OV-08	10	Ovorkhangai	Bayasadbum	C	Baruus bayan ulaan	1	00	1	00	2	50	3	100	2.5	250	2	50	2	2.5	34	47.5
OV-17	10	Ovorkhangai	Ek ovoo	C	Narin teel	2	50	2	25	2	50	3	100	2	200	2	50	1	00	35	47.5
UV-03	15	Uva	Bulgankhangai	C	Khargas	0	00	0	00	0	25	3	100	3.5	350	0	00	0	00	36	47.5
BH-08	3	Bayankhongor	Tsagaan rej	C	Ulsit	2	50	2	25	3	25	3	100	2	200	2	50	1	00	37	45.0
GA-03	5	Gobi-Altay	Undal	C	Duvit	2	50	2	25	2	50	1	00	2.5	250	2	50	2	2.5	38	45.0
HU-07	17	Khovsgol	Devshit	C	Tomorbataj	1	00	2	25	2	50	3	100	2	200	2	50	2	2.5	39	45.0
ZA-05	9	Zavkhan	Shiree	C	Tsagaan khukhan	3	100	2	25	2	50	1	00	2.5	250	1	00	2	2.5	40	45.0
BH-05	3	Bayankhongor	Ulsan ing	H	Bayangovi	1	00	2	25	2	50	3	100	2	200	2	50	1	00	41	42.5
OM-10	11	Omnogobi	Orgil	H	Haabongor	1	00	3	50	1	25	2	50	2.5	250	1	00	3	50	42	42.5
UV-05	15	Uva	Khogit	C	Khovd	2	50	2	25	2	50	3	100	2.5	250	2	50	1	00	43	42.5
OV-18	10	Ovorkhangai	Moodok	C	Sant	3	100	2	25	3	25	1	00	2	200	2	50	1	00	44	40.0
ZA-10	9	Zavkhan	Bayasbojur	C	Bayantes	3	100	2	25	2	50	1	00	2	200	1	00	2	2.5	45	40.0
OV-26	10	Ovorkhangai	Bayan haagai	C	Hairhan dulaan	2	50	1	00	3	25	1	00	2	200	2	50	2	2.5	46	35.0
ZA-06	9	Zavkhan	Jargalin zam	C	Telmen	3	100	3	50	2	50	1	00	2	200	1	00	1	00	47	35.0
ZA-08	9	Zavkhan	Saruil zam	C	Shilundei	2	50	2	25	2	50	1	00	2.5	250	1	00	1	00	48	32.5
AR-10	1	Arkhangai	Jargalant amdral	K	Jargalant	2	50	2	25	3	25	1	00	2	200	1	00	1	00	49	30.0
BH-09	3	Bayankhongor	Tectsegiel	C	Baunsagaan	3	100	2	25	3	25	3	100	1.5	150	1	00	1	00	50	30.0
TO-04	14	Tov	Dalgerch	K	Bayansagaan	1	00	1	00	2	50	1	00	2	200	2	50	1	00	51	30.0
DU-09	8	Dundgobi	Moodok	C	Sain tsagaan	2	50	2	25	2	50	3	100	1.5	150	1	00	1	00	52	27.5
GA-06	5	Gobi-Altay	Ratnaimandal	C	Jargalan	3	100	1	00	3	25	1	00	1.5	150	2	50	1	00	53	22.5
KO-05	16	Khovd	San Bulakh	C	Khovd	3	100	2	25	3	25	3	100	1	100	1	00	1	00	54	15.0
OV-12	10	Ovorkhangai	Hegji	C	Esou zvil	3	100	2	25	3	25	1	00	1	100	1	00	1	00	55	5.0
ZA-02	9	Zavkhan	Shire Tectsegiel	C	Ider	3	100	2	25	3	25	1	00	1	100	1	00	1	00	56	5.0
OV-23	10	Ovorkhangai	Yalah	C	Hegji	2	50	2	25	3	25	1	00	1	100	1	00	1	00	57	0.0

Selected Cooperative

Table-VI.2.6 List of Model Cooperatives (Wool, Camel Hair, Hard and Soft Hair)

Unit	Aimug Code	Aimug Name	Name of cooperative	Horn/Company	Som located	1.		2.		3.		4.		5.		6.		7.		8.	
						Participation Rate in the Som		Participation Rate to General Meeting		Scale of Agricultural Cooperative		Usage Rate for Business of Agricultural Cooperatives		Benefit Cost Ratio and Profit per Household		Rate of Welfare Cost to Net Profit		Income Tax per Member Household		Total	
						Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point	Grade	Point	Rank	Point
GA-14	5	Gobi Aluy	Gotun bogol	C	Sharga	3	10.0	1	0.0	3	5.0	3	10.0	3.5	37.5	2	5.0	3	5.0	1	72.5
OM-08	11	Omngobi	Hoyor ulziit	C	Manlai	1	0.0	2	2.5	3	5.0	3	10.0	4	45.0	2	5.0	3	5.0	2	72.5
SU-06	12	Sukhbestar	Soyombo	C	Agat	3	10.0	2	2.5	2	5.0	3	10.0	3.5	37.5	2	5.0	2	2.5	3	72.5
OO-19	6	Omngobi	Shree nirakh	C	Ufasbulag	3	10.0	2	2.5	2	5.0	1	0.0	2.5	22.5	2	5.0	2	2.5	3	72.5
DO-11	6	Dorogola	Gorch zam	C	Hube gal	3	10.0	2	2.5	2	5.0	1	0.0	3	30.0	2	5.0	3	5.0	5	57.5
ZA-04	9	Zavkhan	Chigestei Urdna	C	Uhadai	1	0.0	3	5.0	1	2.5	1	0.0	4	45.0	1	0.0	3	5.0	6	57.5
AR-08	1	Arkhangai	Gorch zam	H	Tariat	1	0.0	3	5.0	2	5.0	3	10.0	2.5	22.5	2	5.0	3	5.0	7	52.5
OV-09	10	Ovorkhangai	Bayan gal	-	Bayangol	3	10.0	2	2.5	3	5.0	3	10.0	2	15.0	2	5.0	3	5.0	8	52.5
HU-06	17	Khovsgol	Sarwai zam	C	Fomobulag	1	0.0	3	5.0	2	5.0	1	0.0	3	30.0	2	5.0	3	5.0	9	50.0
ZA-11	9	Zavkhan	Ulan tog	C	faetsen sul	1	0.0	2	2.5	3	5.0	3	10.0	3	30.0	1	0.0	2	2.5	10	50.0
BH-07	3	Bayankhongor	Bayan hairhan	C	Bantsagaan	3	10.0	2	2.5	2	5.0	3	10.0	2	15.0	2	5.0	1	0.0	11	47.5
HE-05	18	Khovsgol	Baleekh	C	Bender	3	10.0	2	2.5	3	5.0	3	10.0	2	15.0	2	5.0	1	0.0	12	47.5
UV-15	15	Uva	Bayangol	C	Omngobi	1	0.0	3	5.0	2	5.0	3	10.0	2.5	22.5	1	0.0	3	5.0	13	47.5
DD-02	7	Dornod	Fakh taiyas	C	Yatad	1	0.0	1	0.0	1	2.5	1	0.0	3	30.0	2	5.0	3	5.0	14	42.5
ZA-13	9	Zavkhan	Fakh taiyas	C	Songoo	1	0.0	2	2.5	3	5.0	3	10.0	2.5	22.5	1	0.0	2	2.5	15	42.5
OV-04	10	Ovorkhangai	Bataam	-	Bat ulzii	1	0.0	1	0.0	1	5.0	3	10.0	2	15.0	2	5.0	3	5.0	16	40.0
OV-19	10	Ovorkhangai	Hodulmar	-	Taragt	2	5.0	2	2.5	3	5.0	2	5.0	2	15.0	2	5.0	2	2.5	17	40.0
OV-05	10	Ovorkhangai	Bat amidral	-	Bat ulzii	1	0.0	1	0.0	2	5.0	2	5.0	2.5	22.5	2	5.0	1	0.0	18	37.5
SU-09	12	Sukhbestar	Radsh	C	Oogoo	2	5.0	2	2.5	2	5.0	3	10.0	2	15.0	1	0.0	1	0.0	19	37.5
OV-15	10	Ovorkhangai	Dulgoon	-	Zaambayan ulaan	1	0.0	3	5.0	2	5.0	1	0.0	2	15.0	2	5.0	2	2.5	20	37.5
GA-01	5	Gobi Aluy	Hogol	C	Akai	3	10.0	2	2.5	2	5.0	3	10.0	1.5	2.5	1	0.0	1	0.0	21	30.0
OV-03	10	Ovorkhangai	Bayanburd	-	Burd	3	10.0	3	5.0	3	5.0	1	0.0	1.5	2.5	2	5.0	1	0.0	22	27.5
OV-10	10	Ovorkhangai	Bayan tal	-	Bayangol	1	0.0	2	2.5	1	5.0	3	10.0	1.5	2.5	2	5.0	1	0.0	23	25.0
OV-27	10	Ovorkhangai	Fakh taiyas	-	Hujit	1	0.0	1	0.0	3	5.0	3	10.0	2	10.0	1	0.0	1	0.0	24	25.0
OV-01	10	Ovorkhangai	Bayan terem	K	Bayan under	3	10.0	1	0.0	3	5.0	1	0.0	1.5	2.5	2	5.0	1	0.0	25	22.5
OV-13	10	Ovorkhangai	Och	-	Ulzii	3	10.0	1	0.0	3	5.0	1	0.0	1.5	2.5	2	5.0	1	0.0	26	22.5
OV-25	10	Ovorkhangai	Bat under	-	Uyang	3	10.0	1	0.0	3	5.0	1	0.0	1.5	2.5	1	0.0	1	0.0	27	17.5
OV-22	10	Ovorkhangai	Tuya	-	Taragt	1	0.0	2	2.5	1	5.0	1	0.0	1.5	2.5	2	5.0	1	0.0	28	15.0
BH-02	3	Bayankhongor	Bayanmandal	H	Khureemtal	0	0.0	0	0.0	0	0.0	3	0.0	2	0.0	0	0.0	0	0.0	29	0.0

Selected Cooperative

Table VI-2.7 List of Component in Model Cooperatives

1. Wheat Production	
2. Meat, Hide & Skin, Intestine	
3. Dairy Product	
4. Animal Hair	
5. Hay Production	
6. Animal Health	
7. Electric Power Supply	
8. Well Improvement	
9. Small Scale Irrigation Scheme	
10. Marketing and Transportation	
11. Telecommunication	
12. Office and Training Facilities	
13. Social Services	
1. Wheat Production (
Location	(1) Bayan Berkh cooperative, Govanbulag Som, Bulgan Aimag
Basic condition	7,200 ha of total cultivated area, about 2,000 ha of annual cultivation.
1.1 Wheat Seed Processing Plant	
Purpose:	Providing better quality seeds in order to increase unit yield and grain quality.
Seed requirement:	450 ton for about 2,000 ha per year, about 200 to 250 kg per ha
Receiving capacity:	9 ton per hour (72 ton per working day)
Storage capacity:	500 ton (including allowance space circulate seed in storage tank for maintenance of constant moisture)
Operation process:	1) receiving, 2) cleaning, 3) grading, 4) storage, 5) shipping.
Processing facility:	Receiving hopper, cleaning machine, gravity grader, thickness grader, seed tanks, bucket conveyor, shipping machine, electricity supply, ventilation, dust collector.
Equipment:	Quality test and inspection equipment.
Building:	850 m ² , including office and toilet.
Operation duration:	10 working days enough for requirement of the cooperative. Additional operation is expected to supply for about 2,000 ha in the neighboring 7 Soms.
Training:	Technical aspect (facility operation, quality improvement, processing efficiency, etc.), managerial aspect (accounting, cost management, sales promotion, etc.)
1.2 Wheat Storage and Wheat Flour Mill	
Purpose:	Increase of product value, supply to local demand by substituting with flour supplied from Ulaanbaatar.
Grain tank capacity:	1,000 ton.
Milling capacity:	500 kg per hour, 4 ton per day.
Production:	750 ton at milling rate of 75%
Operation process:	1) receiving, 2) gravity grading, 3) thickness grading, 4) grain storage, 5) watering, 6) milling, 7) packing, 8) shipping.
Processing facility:	Floor mounted hopper, gravity grader, thickness grader, screw conveyors, grain tanks, bucket conveyors, watering unit, flour milling unit, packing machine, shipping machine, electricity supply, ventilation, dust collector.

Equipment: Test and inspection equipment.
 Building: 870 m², including office, toilet, product & bran storage.
 Operation duration: 250 days per year
 Population of about 10,000 in the Som and neighboring 7 Soms.
 Technical aspect (facility operation, quality, etc.), managerial aspect (accounting, cost management, sales promotion, etc.)

1.3 Wheat Drying Floor

Purpose: For grains to be sold directly without milling, drying, cleaning, and pre-grading of grains will be made on the drying floor.
 Scale: 5,000 m²
 Facility: Truck scale, concrete drying floor, fence, electric supply.
 Equipment: Grain cleaner 3 units, grain loader 2 units, belt conveyor.

1.4 Agricultural Machinery for Wheat Cultivation

Purpose: Mainly replacement of existing machinery, partly improvement of operating capacity.
 Combine harvester: 12 units, reaping width 5 m class
 Reaper attachment: 9 units, width 10 m class
 Crawled tractor: 9 units, 75 hp class
 Wheel tractor: 9 units, 80 hp/90 hp/110 hp classes
 Trailer (tractor): 2 units, 5 ton or 8 ton
 Dump trailer (tractor): 2 units, 5 ton or 8 ton
 Harrow: 16 units for KPS-4, 48 sets (4 pcs./set) for BZZS-1.0
 Grain drill: 25 units, 3.6 m width
 Sprayer: 2 units, plant protection, 5 m or 10 m width
 Training: Technical aspect (wheat cultivation and farming practices, machinery operation, etc.), managerial aspect (accounting, cost management, sales promotion, etc.)

1.5 Machinery Workshop

Purpose: Extension of machinery operational life, improvement of maintenance convenience.
 Facility: Over head crane (1 ton), electricity supply, 108 m² for apron, 100 m² for cleaning, 270 m² for parking.
 Equipment: Chassis service, fabrication & welding equipment, cleaning & painting equipment, lubrication equipment, air compressor, hand tools, power tools, craft machines.
 Building: 370 m² (office, toilet, parts craft shop, spare parts storage).

1.6 Machinery Garage (at production site)

Purpose: Avoiding deterioration of agricultural machinery.
 Scale: 4,500 m² open space.
 Facility: Concrete floor, fencing and gate.

1.7 Machinery Garage and Hangar (at Som center)

Building: 400 m² with office and spare part storage.
 Facility: Concrete floor, fencing and gate, 136 m² for apron.

1.8 Site Office

Building: 430 m² with office, operators waiting room, universal storage, rest room, canteen, kitchen, toilet, shower room, wireless communication.

1.9 Training and Guidance

Crop cultivation, farming practices, machinery operation, plant operation, farm management, etc.

2. Meat, Hide and Skin, Intestines

2.1 Slaughter House (meat, hide & skin and intestines)

Capacity: 30 heads per day for cattle, 450 heads per day for sheep and goat, operated by 15 to 20 slaughters.
Slaughtering period: 1 month from late November to mid December.
Storage duration: 2 to 3 months from mid December to mid March.
Processing facilities: Separate lines for large and small animals (stock yard, knocking unit, blood bin, flaying unit, intestine stripping unit, cutting unit, syringe unit, intestine processing unit, intestine syringe unit), hooking rail, pre-cooling unit, load dock, inspection unit, water supply, electricity supply.
Building space: 700 m²

2.2 Meat Processing

Purpose: Small scale meat processing for local consumption and trial marketing for Aimag Centers and Ulaanbaatar.
Processing capacity: 200 kg block meat per day for sausage, smoke, dried meat, ham, bacon.
Processing period: 2 to 3 months from mid December to mid March.
Processing facility: Refrigerator, stockpile, pre-treatment unit, soaking unit, meat chopping, mixing unit, pecker unit, boiling unit, slicer unit, fumigator unit, meat desiccator, product storage, packing unit, water supply, electricity supply.
Equipment: Meat chopper, mixer, slicer, fumigator.
Building space: 230 m²

2.3 Raw Hide Processing

Purpose: Small scale hide processing for local consumption and trial marketing for Aimag Centers and Ulaanbaatar.
Processing capacity: 50 pieces in 1 cycle.
Processing period: 1) summing, 2) setting-out, 3) drying, 4) stocking, 5) buffing, 6) padding, 7) glazing, 7) iron-press.
Operation process: Salt treatment unit, tannery processing unit, product storage, mineral storage, water supply, electricity supply.
Processing facility: \$34 m²
Equipment: Technical aspect (facility operation, quality and productivity improvement, etc.), managerial aspect (accounting, cost management, sales promotion, etc.).
Building space:
Training:

2.4 Guts Pre-processing

Purpose: Small scale pre-processing for trial marketing for Aimag Centers and Ulaanbaatar.
Processing capacity: -
Processing period: -
Processing facilities: Working space, equipment and tools, water supply, electricity supply
Building space: 207 m² with office space.

2.5 Training and Guidance

Plant and equipment operation, management system, etc.

3. Dairy Product

3.1 Dairy Product Processing

Purpose: Small scale pre-processing for trial marketing for Aimag Centers and Ulaanbaatar.
Processing capacity: 5 ton milk per day for butter and cheese.
Processing period: 5 to 6 months from May to September.
Operation process: 1) filtering, 2) purifying, 3) stocking, 4) butter processing, 5) cheese processing.
Equipment: Milk receiving tank, filter, homogenizer, stocking, storage, water supply, electricity supply tank, cream separator, cream tank, cheese but, cheese press.
Building space: 232 m² with office space.
Training: Technical aspect (facility operation, quality improvement, etc.), managerial aspect (accounting, cost management, sales promotion, etc.).

3.2 Milk Collection Equipment

Purpose: Collection of milk from members to convey to processing plant
Operation period: 6 months from May to October
Equipment: Milk tank lorry (200 liter), 2 units

3.3 Training and Guidance

Dairy product processing, plant operation, management system, etc.

4. Animal Hair

4.1 Animal Hair Collection and Storage Facility

Purpose: Receive and storage of animal hair (camel, wool, cashmere) transported by members.
Operation period: 5 months from April to August.
Facility: Unloading, scaling, stockpile storage, hair pressing, storage, water supply, electricity supply
Equipment: hair press machine.
Building space: 640 m² with office space.

4.2 Mobile Animal Hair Collection Equipment

Location: All the model cooperatives
Purpose: Improvement of collection efficiency for animal hair (camel, wool, cashmere) at the site.
Operation period: 1 month in April for cashmere, 2 months from May to June for camel hair, 2 months from July to August for wool.
Equipment: Electric wool shearing units (10 units), press machine, weighing scale, truck (5 ton) with crane (2 ton), trailer (5 ton, truck or tractor), generator, wireless communication

4.3 Animal Hair Pre-Processing Facility

Location: Commercial marketing for Ulaanbaatar and China by small scale
Purpose: primary processing of camel hair, wool and cashmere in order to increase value of raw material and decrease transportation cost.
Operation period: 8 months from April to September
Processing capacity: 400 kg raw hair per day (100 to 200 kg products kg per day).
Processing facilities: Cleaning unit, scouring unit of greasy oil, drying, lapping unit, water supply, electricity supply.
Building space: 352 m² with office space and utility.
Others: Raw material can be collected from the surrounding Soms.

4.4 Pelt Processing Facilities

Purpose: Small scale felt processing for local consumption and trial marketing in the Som and neighboring Soms.
Operation period: 12 months per year
Processing capacity: 1 to 2 ton of raw wool per day, (felt product: 1 to 2 m width, 3 to 5 m length)
Operation process: 1) scouring, 2) carding, 3) gilling, 4) combing, 5) top, 6) press.
Processing facilities: Material stockyard, wool syringe unit, processing unit, pressing and packing unit, product stockyard, water supply, electricity supply.
Building space: 352 m² with office.

4.5 Training and Guidance

Plant and machinery operation, management system, etc.

5. Animal Health

5.1 Veterinary Center

Purpose: Improvement of facilities and equipment for veterinary center, enough for test of goat breeding male.
Building: 280 m² with office, library, experiment and test room, treatment room, utilities.
Equipment: Veterinary equipment, test equipment for died animal and breeding animal.

5.2 Animal Batching

Purpose: Improvement of animal disease control, mainly for small animals.
Facilities: 94.3 m² with stockyards, bath, fence.

5.3 Animal Hut for Goat Breeding Male

Purpose: Improvement of breeding condition for goat breeding male, particularly for late autumn to early spring.
Facilities: 660 m² with 10 stock pen (50 heads per pen), water supply, electricity supply.
Training: Technical aspect (distribution procedure, etc.), managerial aspect (accounting, cost management, sales promotion, etc.)

5.4 Training and Guidance

Plant and machinery operation, management system, etc.

6. Hay Production

6.1 Agricultural Machinery Hay Production (Galshar Som)

Basic condition: 15,000 ha of natural grass land, 250 kg of hay per ha, minimum operation to produce 500 ton (2,000 ha) per year and increment depending on demand (surplus production available for surrounding Soms), replacement of existing machinery

Wheel tractor: 2 units, 80 hp/90 hp/110 hp classes
Trailer (tractor): 6 units
Hay mower: 3 units
Tedder rake: 3 units
Hay baler: 3 units

Workshop (A class): 300 m² building (office, toilet, parts craft shop, spare parts storage), electricity supply, 88 m² for apron, 100 m² for cleaning, 220 m² for parking, fabrication & welding equipment, cleaning & painting equipment, lubrication equipment, air compressor, hand tools, power tools.

Training: Technical aspect (machinery operation, working efficiency, quality of product, etc.), managerial aspect (accounting, cost management, sales promotion, etc.)

6.2 Agricultural Machinery for Hay Production (Dorvoljin Som)

Basic condition: Minimum production of 50 ton (200 ha) per year and increment depending on demand (surplus production available for surrounding Soms), replacement of existing machinery, improvement of irrigation practice.

Location: 3 locations (100 ha to 400 ha) of natural grass land along the Zawkhan river.

Irrigation method: Inlet from the river, canal excavation, basin irrigation, supplemental irrigation by rain gun

Wheel tractor: 2 units, 80 hp/90 hp/110 hp classes
Trailer (tractor): 2 units
Rain gun: 3 units
Hay mower: 3 units
Tedder rake: 3 units
Hay baler: 3 units
Blade attachment: 2 units
Back hoe attachment: 2 units

Workshop (B class): 200 m² building (office, toilet, parts craft shop, spare parts storage), electricity supply, 56 m² for apron, 100 m² for cleaning, 140 m² for parking, fabrication & welding equipment, cleaning & painting equipment, lubrication equipment, air compressor, hand tools, power tools.

Training: Technical aspect (irrigation practice, machinery operation, working efficiency, quality of product, etc.), managerial aspect (accounting, cost management, sales promotion, etc.)

6.3 Training and Guidance

Machinery operation, irrigation practice, management system, etc.

7. Electric Power Supply and Generation

7.1 Transmission from Central Power Grid Network

Location: Bayan Berkh Cooperative, Gorvanbbulag Som, Bulgan Aimag

Requirement: 380 V (50 Hz) with 3 phase for processing factories, and 220 V (50 Hz) with single phase for office and home use.

Transmission line: 6.6 kV high voltage transmission line.

Distance: About 10 km

Transformer: 6.6 kV/280 V/220 V transformer, 100 kVA

Others: Possible to connect distribution line in Som center and to sell surplus electricity to dwelling houses.

7.2 Hybrid Power Generation

Requirement: 380 V (50 Hz) with 3 phase for processing factories, and 220 V (50 Hz) with single phase for office and home use.

Facilities: 100 kVA diesel generator, 100 kVA wind mill generator, inverter and controller, power house.

Equipment: 380 V/220 V transformer, battery for office, meteorological recording system, distribution system.

Others: Possible to connect distribution line in Som center and to sell surplus electricity to dwelling houses.

7.3 Supplemental Power Supply (solar battery system)

Requirement: 220 V (50 Hz) with single phase.

Capacity: 5 kVA for office use in Som center and Bagh branches

Facilities: Solar panel, inverter, controller, battery, meteorological recording system.

Others: Commissioning of operation.

7.4 Training and Guidance

Operation and maintenance, management system, etc.

8. Well Improvement for Livestock and Vegetable Cultivation

8.1 Livestock Drinking Water Supply System

Purpose: Improvement of wells for livestock drinking water supply in order to utilize natural pasture, which is not utilized due to water shortage.

Well capacity: 20 to 200 m depth, 3 to 5 ton per day.

Power source: Electricity generated by solar panel or wind mill (1 kVA, 220 V, 50 Hz).

Facility: Submerged pump, water tank (3 to 5 ton), water meter, water tub, water lift-up pumps, elevated water tank with tower (if necessary).

Remark: Necessary management system should be established for joint utilization and operation of herders (operation procedure, rule and regulation, cost of operation, collection fee, repairing, etc.).

8.2 Well for Vegetable Cultivation and Livestock

Purpose: Promotion of small scale irrigation and miscellaneous water supply, in order to associate grouping of herders households, supply of vegetables for local demand, generation of cash income.

Main crop: Potatoes, onions, cabbage, beans, etc.

Irrigated area: 0.5 to 1 ha in gross

Power source: Electricity generated by solar panel or wind mill (1 kVA, 220 V, 50 Hz).

Facility: Submerged pump, water tank (3 to 5 ton), water meter, fencing, water tub.

Training: Technical aspect (farming practice, irrigation practice, machinery operation, working efficiency, quality of product, etc.), managerial aspect (accounting, cost management, sales promotion, etc.)

8.3 Training and Guidance

Operation and maintenance, management system, etc.

9. Small Scale Irrigation Scheme (Dariv Som)

Purpose: Promote crop production by utilization of existing reclaimed cultivated land and irrigation facilities, for local consumption.

Area: 250 ha in gross.

Crop: Rotational cropping of feed grain, vegetables & fruits, feed grass, and fallow.

Irrigation: Water source from rivers and springs, sprinkler and furrow irrigation method.

Equipment: Water pump, sprinkler (10 units), wheel tractor (2 units), disk harrow (2 units), combine harvester (2 units), potato planter (2 units), potato harvester (2 units), tractor trailer (5 ton, 2 units)

Training: Technical aspect (farming practices, irrigation practices, machinery operation, working efficiency, quality of product, etc.), managerial aspect (accounting, cost management, sales promotion, etc.)

10. Transportation, Marketing and Communication

10.1 Transportation Equipment

Purpose: Renewal and expansion of transportation equipment

Equipment: Truck (5 ton), trailer for truck (5 ton).

10.2 Warehouse

Purpose: Storage for marketing commodities both products and consumer goods, functioning as wholesale.

Facilities:
 1 warehouse (360 m², 100 to 200 ton) for local livestock products collected in neighboring Soms and to be sold outside (Ulaanbaatar or China).
 1 warehouse (360 m², 100 to 200 ton) for daily consumer goods procured outside local area (Ulaanbaatar or China) and to be sold for local consumption.
Equipment:
 water supply and drainage system, electricity supply.
 Fork lift (1 unit, 2 ton), truck (5 ton) with crane (2 ton), weight scale, test and inspection tools (wheat flour, rice, sugar, canvas, felt, etc.)

10.3 Vehicle and Motor Bikes

Purpose:
 Transportation means for cooperative staffs to visit members or non-member households, for communicating on cooperatives, sales activities, production status.
Equipment
 4WD vehicle and motor bikes

10.4 Training and Guidance

Operation and maintenance, management system, etc.

11: Telecommunication

11.1 Local Communication within the Som

Purpose:
 Improvement of local communication among Som center office, Bugh offices, and other necessary locations like field offices in wheat production area, mobile collection teams.
Facilities:
 Short wave wireless communication system covering 100 km distance, consisting of 1) key station in Som center, 2) branch station in Bugh and field offices, and 3) mobile stations, electricity supply in Som center and branch offices.
Training:
 Operation, maintenance and repairing of equipment.

11.2 Communication with Ulaanbaatar

Purpose:
 Smooth communication for 1) obtaining market information in Ulaanbaatar, 2) negotiation with dealers in Ulaanbaatar for sales and purchase, 3) communication with NAMAC.
System:
 Satellite telecommunication system including fax and data communication.

Facility:
 Small scale satellite communication system, electric power supply with backup battery in the Som center office.

Training:
 Operation, maintenance and repairing of equipment.

11.3 Training and Guidance

Operation and maintenance, management system, etc.

12. Office and Training Facilities

12.1 Som Center Office

Facilities:
 5 to 10 staffs, 469 m², including office space, meeting room, exhibition space, shop, telecommunication, storage, utilities, electricity supply, water supply and drainage system.
Equipment:
 Computer, telecommunication, office furniture, solar battery system (2 KVA).

12.2 Bugh Branch Office

Facilities:
 1 to 2 staffs, 192 m², including office space, storage, utilities, electricity supply, water supply and drainage system.
Equipment:
 Computer, telecommunication, office furniture, solar battery system (2 KVA).

12.3 Training Facilities

Purpose:
 Training of cooperative staffs and members, transfer the achievement of model cooperative to the surrounding Soms. 15 to 20 trainees.

Facilities:
 850 m², including office, training room, meeting room, library, kitchen, canteen, lodging, storage, utilities

Equipment:
 Computer, telecommunication, office furniture, solar battery system (2 KVA).

Training program:
 1) training for cooperative management staff (accountants, leaders),
 2) training for working staff (operators, drivers, factory workers, other workers),

3) training for cooperative members (herders, farmers),

4) exhibition for non-members (herders, farmers),

5) training for people in the surrounding Soms

Other services:
 Culture program (movies, entertainment,

12.4 Training and Guidance

Program preparation, training method, participatory methodology, management system, etc.

13. Social Services

13.1 Electrification for Nomadic Herders Household

Location:
 All the model cooperatives

Purpose:
 Electrification of herders household (lighting, radio or TV)
System:
 Rental system of such portable equipment as solar battery cells and wind mill, generation modules.

Power supply:
 220 V AC (50 Hz), 200 W

Solar battery:
 Solar panel unit, controller units (inverter, DC/AC converter, charger, battery), 50 kg weight, more than 5 years for product life.

Wind mill:
 200 w at 10 to 12 m/s, cut off at 3 m/s, controller units (inverter, DC/AC converter, charger, battery), weight less than 10 kg, more than 5 years for product life.

Others:
 Rental charge must include depreciation of equipment.

13.2 Small Scale Manufacturing

Purpose In order to supply commodities necessary for rural households, small scale manufacturing facility as craft shop will be established.

Facilities 246 m² for wood craft work including tools and equipment

Others 5 sewing machines for existing facilities for Shene Urmult cooperative at Khantianbulag Som in Dornu Gobi Aimag.

13.3 Service Center

Purpose In order to market various products and commodities in the Som, small shop space will be provided on tenant basis. This is also to provide members with opportunity to obtain cash income by selling their small products.

Facilities Building space for tenant shops such as small stores, barber shop, motor spare parts shop, book shop, etc.

13.4 Others Social Services for Members

Purpose In order to increase members of cooperative, various social services are expected to provide depending on achievement of business.

Item Transportation for nomadic mobilization,
Providing cultural program,
Rental of electrification equipment
Ambulance service for emergency patient,
Assistance for repairing of seasonal shelters,
Veterinary service
Well management for water supply
Scholarship and dormitory assistance for members family
Services of news papers and magazines

13.5 Training and Guidance

Program preparation, training method, participatory methodology, management system, etc.

Table VI-2.8 Cost Breakdown for Model Cooperatives and Training & Information Center (1/7)

(Unit: US\$ thousand)

Aimug Som	No.1		No.2		No.3		No.4		No.5		No.6		No.7		No.8		No.9		No.10		No.11		Total
	Bulgan Gervanbulag	Uys Sagal	Dormod Tsagaan Ovoo	Kheny Galshar	Gobi Alay Duvr	Zavkhan Dorvoljin	Dund Gobi Erdene Dainy	Domogobi Khanaublag	Ovorkhangai Bogd	Ovorkhangai Khairkhandulaan	Ulaanbaatar Ulaanbaatar	Bayan Berkh Yalalt	Galbut	Boyard Origil	Bayan-Burun	Tavan Erdene	Hujir	Shene Umrut	Altan Tect	Khanuridin	Central Office	Cost	
Name of Cooperative	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost
Facilities																							
Seed Processing Plant																							
Building	101,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101,400
-Mechanical facility	13,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,300
-Electricity equipment	16,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,000
-Office furniture	2,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,700
Sub-Total	133,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133,400
Equipment	200,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200,000
Miscellaneous	66,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66,700
Total	400,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	400,100
Wheat Flour Mill																							
Building	105,900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105,900
-Mechanical facility	13,900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,900
-Electricity equipment	16,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,700
-Office furniture	2,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,800
Sub-Total	139,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	139,300
Equipment	160,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	160,000
Miscellaneous	59,900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59,900
Total	359,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	359,200
Wheat Drying Plant																							
Concrete floor	56,500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56,500
-Miscellaneous	11,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11,300
Grain Cleaner	3,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,300
Grain Loader	1,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,200
Total	72,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72,300
Agricultural Machinery for Wheat Production																							
Combine Harvester	45,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45,600
Reaper Attachment	6,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,000
Crawler Tractor	30,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30,000
Wheat Tractor	9,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,600
Trailer	3,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,000
Dump Trailer	11,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11,000
Harrow (NPS-4)	3,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,000
Harrow (BZ/S-1.0)	5,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,000
Grain Drill	46,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46,800
Sprayer	2,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,000
Total	162,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	162,000
Machinery Workshop																							
Building (large)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Building (middle)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Building (small)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Mechanical facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Electricity equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Office furniture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment (large)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment (middle)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment (small)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table VI-2.8 Cost Breakdown for Model Cooperatives and Training & Information Center (2/7)

(Unit: US\$ thousand)

Aimags Som	No. 1 Bulgan Govi-Altai Bayan-Berkh	No. 2 Uvs Sagii Yalalt	No. 3 Dornod Tovuzgan Ovoo Govi-Altai	No. 4 Khentii Govi-Altai Bayant-Orgil	No. 5 Govi-Altai Dornod Rovana Bnyn	No. 6 Zavkhan Dornod Tavan Erdene	No. 7 Dund Gobi Erdene Dalay Hujur	No. 8 Dornogobi Khazantulaig Shene-Umnur	No. 9 Ovorkhangai Boo Altan Tect	No. 10 Ovorkhangai Khazantulaig Khan-Urdin	No. 11 Ulaanbaatar Ulaanbaatar Central Office	Total
Name of Cooperative	Facilities	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost
	Machinery Parking Space	0	0	0	0	0	0	0	0	0	0	0
	Floor, Fencing	0	0	0	0	0	0	0	0	0	0	0
	Miscellaneous	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Machinery Garage and Hanger	Building	0	0	0	0	0	0	0	0	0	0	0
	-Mechanical facility	0	0	0	0	0	0	0	0	0	0	0
	-Electricity equipment	0	0	0	0	0	0	0	0	0	0	0
	-Office furniture	0	0	0	0	0	0	0	0	0	0	0
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Fuel Station	Building and Space	0	0	0	0	0	0	0	0	0	0	0
	-Mechanical facility	0	0	0	0	0	0	0	0	0	0	0
	-Electricity equipment	0	0	0	0	0	0	0	0	0	0	0
	-Office furniture	0	0	0	0	0	0	0	0	0	0	0
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0
Large Tank (100 ton)	0	0	0	0	0	0	0	0	0	0	0	0
Middle Tank (50 ton)	0	0	0	0	0	0	0	0	0	0	0	0
Small Tank (25 ton)	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Wheat Production Site Office	Building	0	0	0	0	0	0	0	0	0	0	0
	-Mechanical facility	0	0	0	0	0	0	0	0	0	0	0
	-Electricity equipment	0	0	0	0	0	0	0	0	0	0	0
	-Office furniture	0	0	0	0	0	0	0	0	0	0	0
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Slaughter House	Building	0	0	0	0	0	0	0	0	0	0	0
	-Mechanical facility	0	0	0	0	0	0	0	0	0	0	0
	-Electricity equipment	0	0	0	0	0	0	0	0	0	0	0
	-Office furniture	0	0	0	0	0	0	0	0	0	0	0
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0

Table VI-2.8 Cost Breakdown for Model Cooperatives and Training & Information Center (3/7)

(Unit: US\$ thousand)

Aimaj Som	No.1 Bulgan Gorunbulag	No.2 Uvs Sagil	No.3 Dornod Targan-Ovo	No.4 Khentii Galsihar	No.5 Gobi Altay Danv	No.6 Zavkhan Dorvoljin	No.7 Dund Gobi Erdene Dalay	No.8 Dornogobi Khatanbulag	No.9 Ovorkhangai Bogd	No.10 Ovorkhangai Khatrandulaan	No.11 Ulaanbaatar Ulaanbaatar	Total
Facilities												
Meat Processing Facilities												
Building	0	23,400	1	23,400	0	0	1	23,400	1	23,400	0	5
-Mechanical facility	0	3,100	0	3,100	0	0	0	3,100	0	3,100	0	15,500
-Electricity equipment	0	3,700	0	3,700	0	0	0	3,700	0	3,700	0	18,500
-Office furniture	0	600	0	600	0	0	0	600	0	600	0	3,000
Sub-Total	0	30,800	0	30,800	0	0	0	30,800	0	30,800	0	30,800
Equipment	0	10,000	1	10,000	0	0	1	10,000	1	10,000	0	5
Miscellaneous	0	8,200	0	8,200	0	0	0	8,200	0	8,200	0	41,000
Total	0	49,000	0	49,000	0	0	0	49,000	0	49,000	0	91,000
Raw Hide Processing Facility												
Building	0	53,400	1	53,400	0	0	0	0	0	0	0	2
-Mechanical facility	0	7,000	0	7,000	0	0	0	0	0	0	0	14,000
-Electricity equipment	0	8,400	0	8,400	0	0	0	0	0	0	0	16,800
-Office furniture	0	1,400	0	1,400	0	0	0	0	0	0	0	2,800
Sub-Total	0	70,200	0	70,200	0	0	0	0	0	0	0	20,000
Equipment	0	10,000	1	10,000	0	0	0	0	0	0	0	2
Miscellaneous	0	16,000	0	16,000	0	0	0	0	0	0	0	32,000
Total	0	96,200	0	96,200	0	0	0	0	0	0	0	52,000
Intensive Pre-Processing Facility												
Building	0	20,700	1	20,700	0	0	0	0	1	20,700	0	4
-Mechanical facility	0	2,700	0	2,700	0	0	0	0	0	2,700	0	10,800
-Electricity equipment	0	3,300	0	3,300	0	0	0	0	0	3,300	0	13,200
-Office furniture	0	500	0	500	0	0	0	0	0	500	0	2,000
Sub-Total	0	27,200	0	27,200	0	0	0	0	0	27,200	0	20,000
Equipment	0	5,000	1	5,000	0	0	0	0	1	5,000	0	2
Miscellaneous	0	6,400	0	6,400	0	0	0	0	0	6,400	0	25,600
Total	0	38,600	0	38,600	0	0	0	0	0	38,600	0	45,600
Dairy Product Processing												
Building	0	0	0	0	0	0	0	0	0	0	0	0
-Mechanical facility	0	0	0	0	0	0	0	0	0	0	0	0
-Electricity equipment	0	0	0	0	0	0	0	0	0	0	0	0
-Office furniture	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0	0	0
Milk Lorry	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Animal Hair Collection Facility												
Building	0	0	0	0	0	0	0	0	0	0	0	0
-Mechanical facility	0	0	0	0	0	0	0	0	0	0	0	0
-Electricity equipment	0	0	0	0	0	0	0	0	0	0	0	0
-Office furniture	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0
Pressory	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0

Table VI-2.8 Cost Breakdown for Model Cooperatives and Training & Information Center (4/7)

(Unit: US\$ thousand)

Aimag Sum	Name of Cooperative	Facilities	No.1		No.2		No.3		No.4		No.5		No.6		No.7		No.8		No.9		No.10		No.11		Total		
			Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit		Cost	Unit
		Mobile Animal Hair Collection Equipment																									
		Pressor	500	1	500	1	500	1	500	1	500	1	500	1	500	1	500	1	500	1	500	1	500	1	500	1	5,000
		Electric Clippers	4,500	15	4,500	15	4,500	15	4,500	15	4,500	15	4,500	15	4,500	15	4,500	15	4,500	15	4,500	15	4,500	15	4,500	15	4,500
		Other Equipment	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	20,000
		Total	7,000		7,000		7,000		7,000		7,000		7,000		7,000		7,000		7,000		7,000		7,000		7,000		25,000
		Animal Hair Pre-Processing Facility																									
		Building	0		0		0		0		0		0		35,200	1	35,200	1	35,200	1	35,200	1	35,200	1	35,200	1	35,200
		-Mechanical facility	0		0		0		0		0		0		4,600		4,600		4,600		4,600		4,600		4,600		4,600
		-Electricity equipment	0		0		0		0		0		0		5,600		5,600		5,600		5,600		5,600		5,600		5,600
		-Office furniture	0		0		0		0		0		0		900		900		900		900		900		900		900
		Sub-Total	0		0		0		0		0		0		46,300		46,300		46,300		46,300		46,300		46,300		46,300
		Equipment	0		0		0		0		0		0		600,000	0	600,000	0	600,000	0	600,000	0	600,000	0	600,000	0	600,000
		Miscellaneous	0		0		0		0		0		0		258,500	0	258,500	0	258,500	0	258,500	0	258,500	0	258,500	0	258,500
		Total	0		0		0		0		0		0		904,800	0	904,800	0	904,800	0	904,800	0	904,800	0	904,800	0	858,500
		Pelt Processing Facilities																									
		Building	0		0		0		0		0		0		35,200	1	35,200	1	35,200	1	35,200	1	35,200	1	35,200	1	35,200
		-Mechanical facility	0		0		0		0		0		0		4,600		4,600		4,600		4,600		4,600		4,600		4,600
		-Electricity equipment	0		0		0		0		0		0		5,600		5,600		5,600		5,600		5,600		5,600		5,600
		-Office furniture	0		0		0		0		0		0		900		900		900		900		900		900		900
		Sub-Total	0		0		0		0		0		0		46,300		46,300		46,300		46,300		46,300		46,300		46,300
		Equipment	0		0		0		0		0		0		5,000	1	5,000	1	5,000	1	5,000	1	5,000	1	5,000	1	5,000
		Miscellaneous	0		0		0		0		0		0		10,300	0	10,300	0	10,300	0	10,300	0	10,300	0	10,300	0	10,300
		Total	0		0		0		0		0		0		61,600	0	61,600	0	61,600	0	61,600	0	61,600	0	61,600	0	61,600
		Veterinary Center																									
		Building	0		0		0		0		0		0		0		0		0		0		0		0		0
		-Mechanical facility	0		0		0		0		0		0		0		0		0		0		0		0		0
		-Electricity equipment	0		0		0		0		0		0		0		0		0		0		0		0		0
		-Office furniture	0		0		0		0		0		0		0		0		0		0		0		0		0
		Sub-Total	0		0		0		0		0		0		0		0		0		0		0		0		0
		Equipment	0		0		0		0		0		0		0		0		0		0		0		0		0
		Miscellaneous	0		0		0		0		0		0		0		0		0		0		0		0		0
		Total	0		0		0		0		0		0		0		0		0		0		0		0		0
		Animal Hat & Test Equipment																									
		Building	0		0		0		0		0		0		0		0		0		0		0		0		0
		Equipment	0		0		0		0		0		0		0		0		0		0		0		0		0
		Miscellaneous	0		0		0		0		0		0		0		0		0		0		0		0		0
		Total	0		0		0		0		0		0		0		0		0		0		0		0		0
		Animal Dipping Bath																									
		Facility	0		0		0		0		0		0		0		0		800	1	800	1	800	1	800	1	800
		Equipment	0		0		0		0		0		0		0		0		0		0		0		0		0
		Miscellaneous	0		0		0		0		0		0		0		0		200	1	200	1	200	1	200	1	200
		Total	0		0		0		0		0		0		0		0		1,000	2	1,000	2	1,000	2	1,000	2	1,000

Table VI-2.8 Cost Breakdown for Model Cooperatives and Training & Information Center (5/7)

(Unit: US\$ thousand)

Aimig Som	Name of Cooperative	No.1		No.2		No.3		No.4		No.5		No.6		No.7		No.8		No.9		No.10		No.11		Total	
		Uvulun	Govranbulag	Uvs	Sagil	Dormod	Tsagaan Ovoo	Kheny	Galsnar	Gohi Altay	Dariv	Zavshan	Dund Gohi	Erdene Daluy	Shene Urmut	Ovorkhangai	Ovorkhangai	Ovorkhangai	Khairkhandulaan	Khairkhandulaan	Khairkhandulaan	Khairkhandulaan	Central Office		Cost
	Agricultural Machinery for Hay Production																								
	Wheal Tractor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Trailer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Hay Mower	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Tedder Rake	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Hay Baler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rain Gun Unit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Blade Attachment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Backhoe Attachment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Electric Power Supply	10	80,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80,000	
	Transmission Line	1	6,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,400	
	Local Distribution	5	3,500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,500	
	Transformer	0	0	20,000	1	20,000	1	20,000	1	20,000	1	20,000	1	20,000	1	20,000	1	20,000	1	20,000	1	20,000	1	20,000	
	Diesel Generator	0	0	0	1	60,000	1	60,000	1	60,000	1	60,000	1	60,000	1	60,000	1	60,000	1	60,000	1	60,000	1	60,000	
	Wind Mill Generator	0	0	0	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	
	Meteorological Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Solar Battery System	0	2	8,000	2	8,000	2	8,000	2	8,000	2	8,000	2	8,000	2	8,000	2	8,000	2	8,000	2	8,000	2	8,000	
	Miscellaneous	18,000	5,600	33,600	5,600	33,600	5,600	33,600	5,600	33,600	5,600	33,600	5,600	33,600	5,600	33,600	5,600	33,600	5,600	33,600	5,600	33,600	5,600	119,200	
	Total	107,900	107,900	33,600	33,600	108,000	108,000	108,000	108,000	108,000	108,000	108,000	108,000	108,000	108,000	108,000	108,000	108,000	108,000	108,000	108,000	108,000	108,000	715,100	
	Well Improvement	1	7,500	1	7,500	1	7,500	1	7,500	1	7,500	1	7,500	1	7,500	1	7,500	1	7,500	1	7,500	1	7,500	1	7,500
	Solar Battery System	1	4,000	1	4,000	1	4,000	1	4,000	1	4,000	1	4,000	1	4,000	1	4,000	1	4,000	1	4,000	1	4,000	1	4,000
	Pumping System	1	2,500	1	2,500	1	2,500	1	2,500	1	2,500	1	2,500	1	2,500	1	2,500	1	2,500	1	2,500	1	2,500	1	2,500
	Meteorological Equipment	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	2,800	
	Miscellaneous	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	
	Total	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	16,800	
	Agricultural Machinery for Crop Production																								
	Combine Harvester	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Reaper Attachment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Crawler Tractor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Wheal Tractor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Trailer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Dump Trailer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Harrow (KPS-4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Harrow (RZS-10)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Grain Drill	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sprayer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Pump	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sprinkler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Potato Planter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Potato Harvester	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Transportation Equipment																								
	Truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Truck with Crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Truck with Freezer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Trailer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table VI-2.8 Cost Breakdown for Model Cooperatives and Training & Information Center (6/77)

(Unit: US\$ thousand)

Name of Cooperative	No.1		No.2		No.3		No.4		No.5		No.6		No.7		No.8		No.9		No.10		No.11		Total	
	Bujan Gorvanbulag	Uvs Sagil	Dormod Taagan Ovoo	Kheny Galshar	Geb Altay Dary	Zavshan Dorvoljin	Dund Gobi Erdene Dalay	Dornogobi Khanbulag	Shene Umuur	Ovorkhangai Bogd	Ovorkhangai Khaikhandulaant	Altan Tect	Khanuridin	Central Office	Ulaanbaatar	Ulaanbaatar	Ulaanbaatar	Ulaanbaatar	Ulaanbaatar	Ulaanbaatar	Ulaanbaatar	Ulaanbaatar		Ulaanbaatar
	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost
Warehouse for Marketing																								
Building	0	0	0	43,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43,200
-Mechanical facility	0	0	0	5,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,700
-Electricity equipment	0	0	0	6,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,800
-Office furniture	0	0	0	1,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,100
-Sub-Total	0	0	0	56,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65,000
Equipment	0	0	0	12,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12,700
Miscellaneous	0	0	0	76,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76,000
Total	0	0	0	136,500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136,500
Vehicle and Motor Bike																								
4WD Wagon	0	0	0	3,500	1	3,500	1	3,500	1	3,500	1	3,500	1	3,500	1	3,500	1	3,500	1	3,500	1	3,500	1	3,500
4WD Pickup	0	0	0	3,500	1	3,500	1	3,500	1	3,500	1	3,500	1	3,500	1	3,500	1	3,500	1	3,500	1	3,500	1	3,500
Motor Bike	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	7,000	2	7,000	2	7,000	2	7,000	2	7,000	2	7,000	2	7,000	2	7,000	2	7,000	2	7,000	2	7,000
Wireless Telecommunication																								
Key Station	1	1,000	1	1,000	1	1,000	1	1,000	1	1,000	1	1,000	1	1,000	1	1,000	1	1,000	1	1,000	1	1,000	1	1,000
Branch Station	5	2,500	1	500	1	500	5	2,500	1	500	6	3,000	1	500	0	0	0	0	0	0	0	0	0	21
Mobile Station	1	500	1	500	1	500	1	500	1	500	1	500	1	500	1	500	1	500	1	500	1	500	1	5,000
Miscellaneous	800	400	400	800	400	400	800	400	400	400	800	400	400	400	400	400	400	400	400	400	400	400	400	5,100
Total	4,000	2,000	2,000	4,000	2,000	2,000	4,000	2,000	2,000	2,000	4,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	25,500
Satellite Telecommunication																								
Satellite Phone	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000	1	2,000
Other Equipment	1	500	1	500	1	500	1	500	1	500	1	500	1	500	1	500	1	500	1	500	1	500	1	5,000
Miscellaneous	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	4,000
Total	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	24,000
Som Center Office																								
Building	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Mechanical facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Electricity equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Office furniture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bagh Office																								
Building	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Mechanical facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Electricity equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Office furniture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

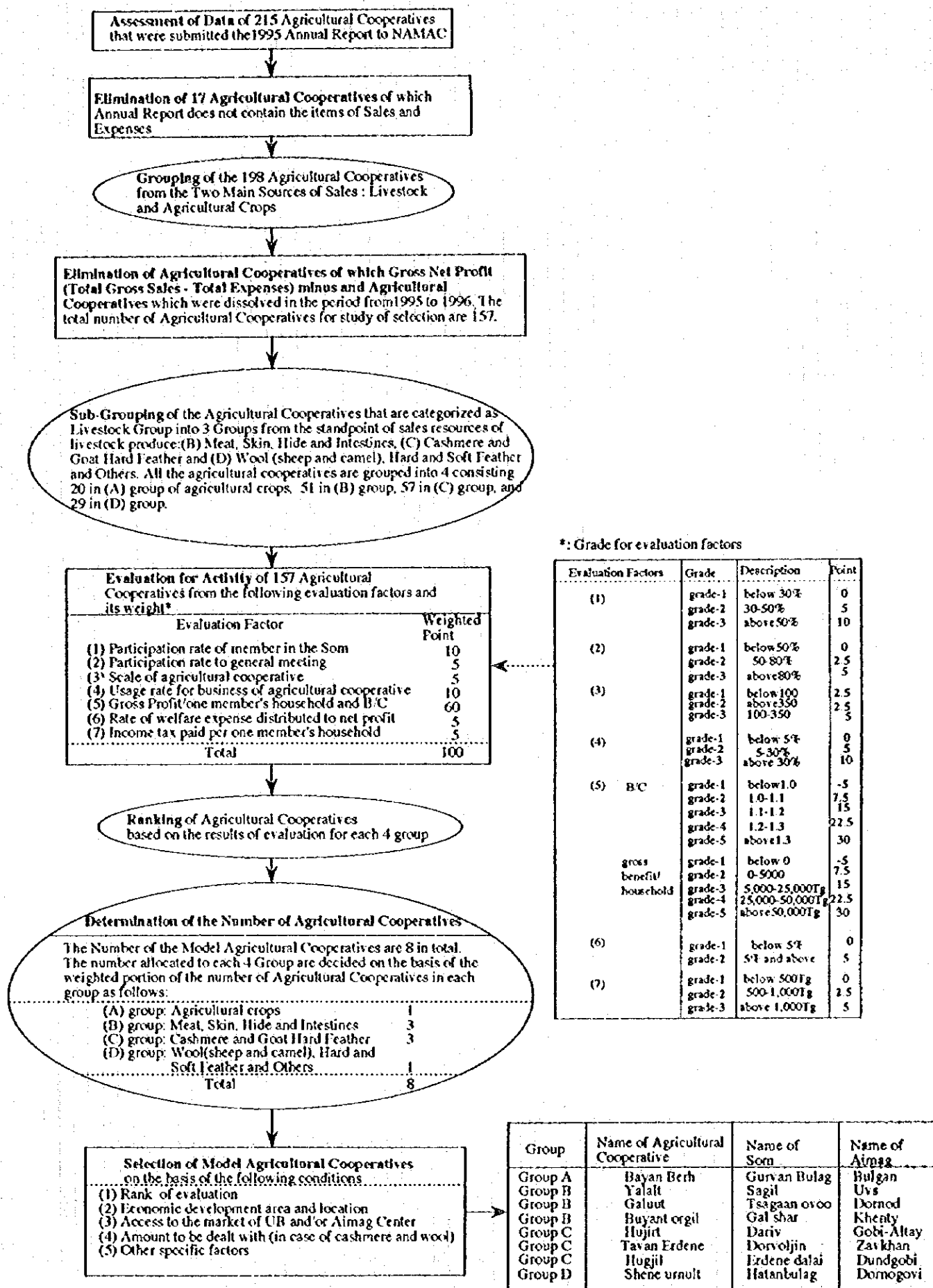
Table VI-2.8 Cost Breakdown for Model Cooperatives and Training & Information Center (7/7)

(Unit: US\$ thousand)

Name of Cooperative	No.1		No.2		No.3		No.4		No.5		No.6		No.7		No.8		No.9		No.10		No.11		Total					
	Ulsan	Yalsar	Uys	Sagil	Dormod	Tsagaan Ovoo	Kheny	Galsnar	Gobi Altay	Dainv	Zavkhan	Dorvoljib	Dund Gobi	Erdene Dalay	Hujir	Shene Urnuut	Dorogobi	Khanantuglag	Ovorkhangai	Bogd	Altan Tect	Ovorkhangai		Khairzhandulaar	Ulaanbaatar	Ulaanbaatar	Central Office	
South Training Center																												
Building	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Mechanical facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Electricity equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Office furniture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ger for lodging (5 pax.)	1	1,000	1	1,000	1	1,000	1	1,000	1	1,000	1	1,000	1	1,000	1	1,000	1	1,000	1	1,000	1	1,000	1	1,000	1	1,000	1	
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
Electrification of Herders' Household																												
Solar Battery System	5	5,000	5	5,000	5	5,000	5	5,000	5	5,000	5	5,000	5	5,000	5	5,000	5	5,000	5	5,000	5	5,000	5	5,000	5	5,000	5	
Wind Mill System	5	1,500	5	1,500	5	1,500	5	1,500	5	1,500	5	1,500	5	1,500	5	1,500	5	1,500	5	1,500	5	1,500	5	1,500	5	1,500	5	
Others	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	
Miscellaneous	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	
Total	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	7,800	
Small Scale Manufacturing																												
Building	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Mechanical facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Electricity equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Office furniture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Service Center in Som Center																												
Building	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Mechanical facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Electricity equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Office furniture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Training & Information Center																												
Building	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Mechanical facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Electricity equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Office furniture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Building	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Mechanical facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Electricity equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Office furniture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Building	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Mechanical facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Electricity equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Office furniture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Building	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Mechanical facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Electricity equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-Office furniture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equipment	0	0	0	0	0																							

Figures

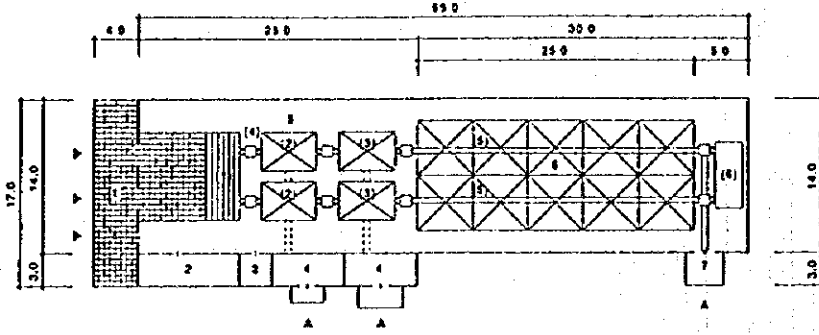
Fig.-VI.2.1 Procedure of Selection of Model Agricultural Cooperatives



Drawings

1 SEED CENTER (645 m²)

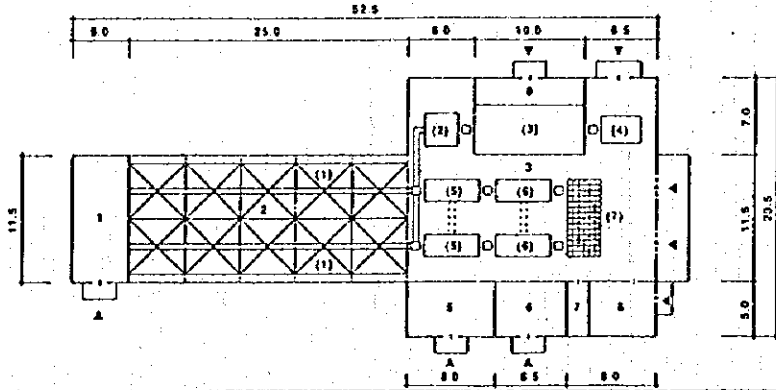
S:1/300
BY METER



- 1 : UNLOADING DOCK 2 : OFFICE 3 : TOILET 4 : DUST COLLECTOR
- 5 : SEED SEPARATING ROOM 6 : SEED STORAGE TANK ROOM
- 7 : SHIPMENT DOCK
- (1) : RECEIVING HOPPER (2) : GRANULE SELECTOR (3) : SELECTOR
- (4) : BUCKET CONVEYOR (5) : SEED STORAGE TANK (6) : BLOWER

2 FLOUR MILL (673.75 m²)

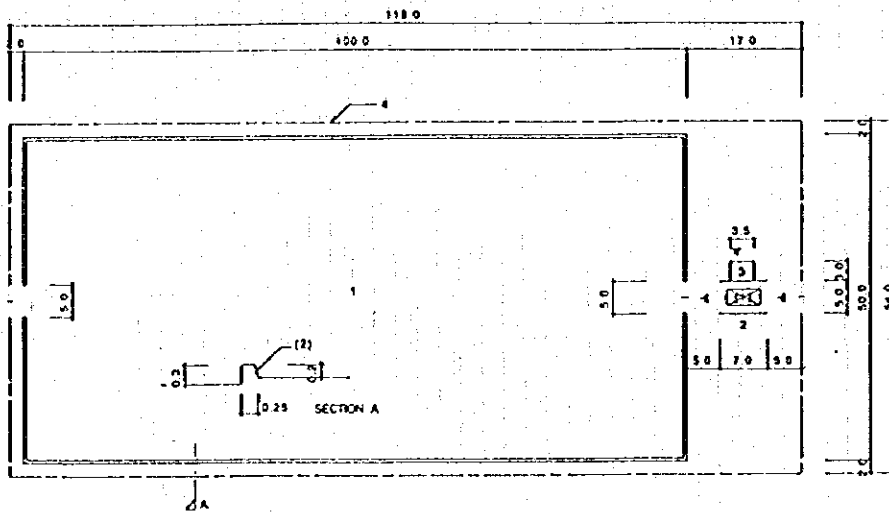
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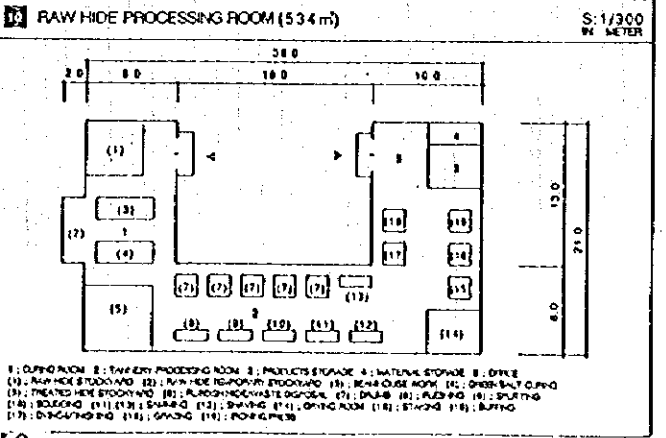
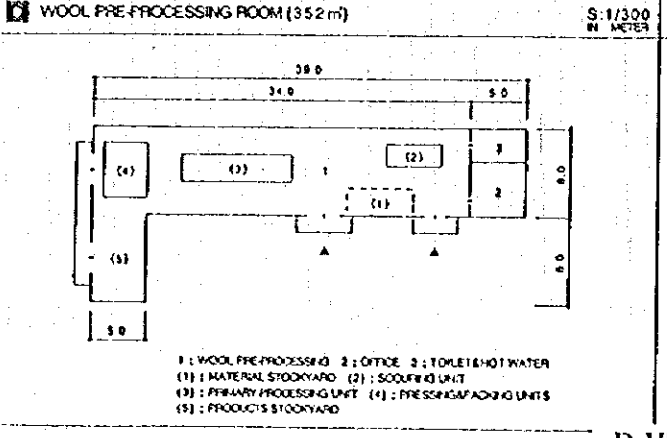
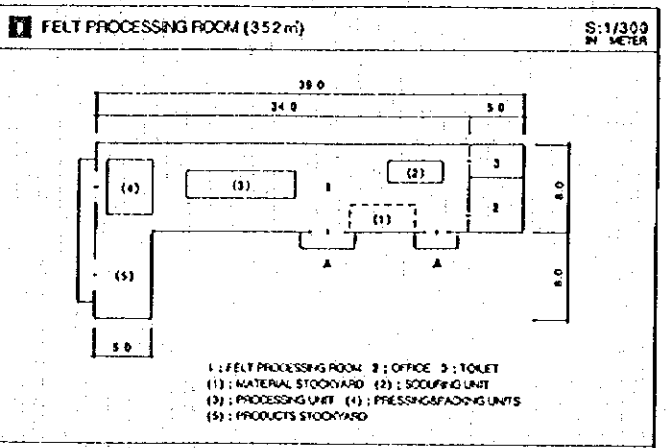
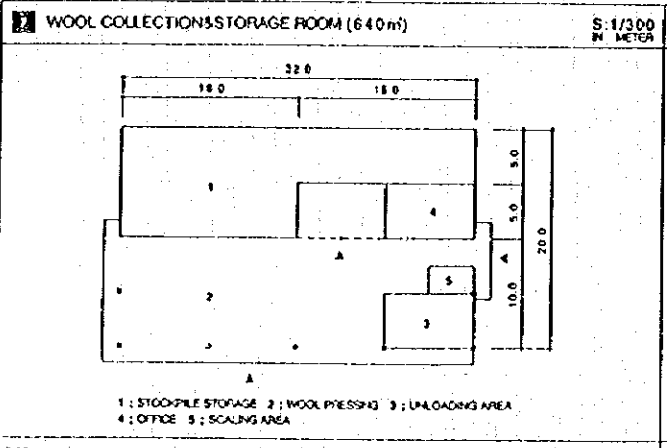
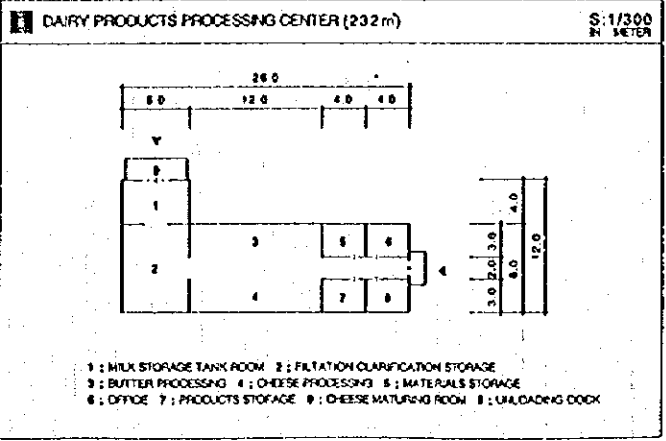
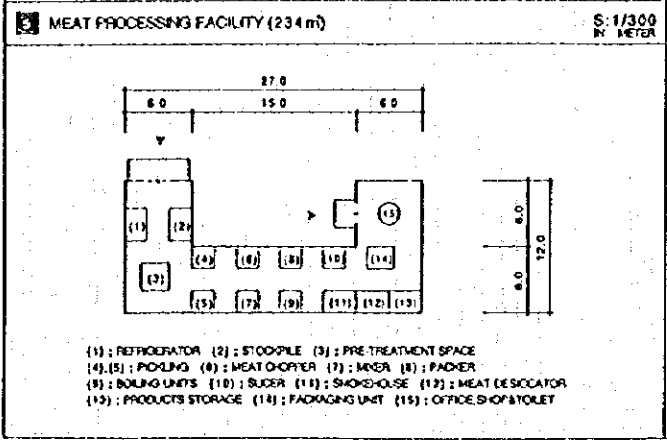
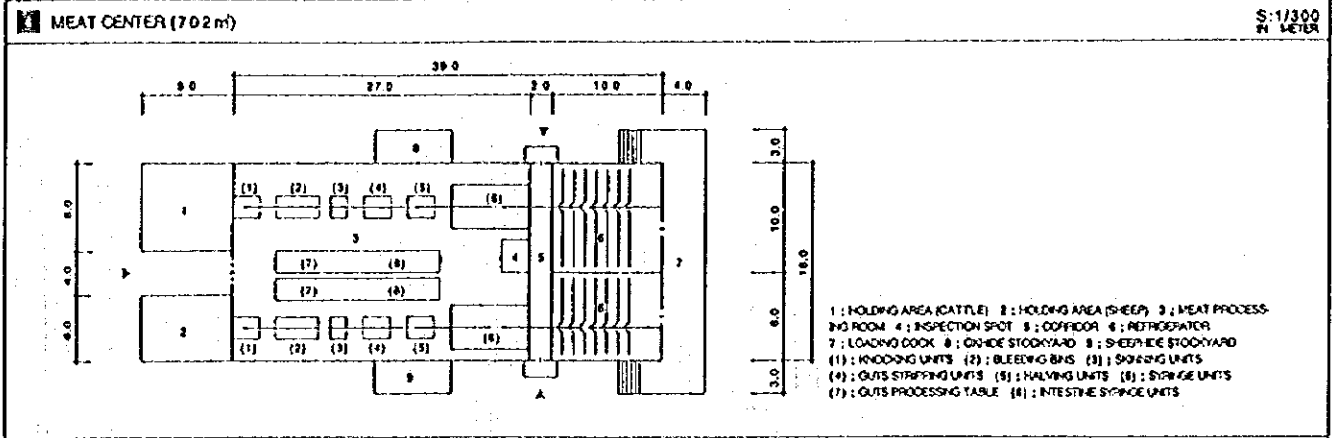
- 1 : BLOWER ROOM 2 : GRAIN STORAGE TANK ROOM 3 : MILL
- 4 : PRODUCTS STORAGE 5 : SCREENING ROOM 6 : DUST COLLECTOR
- 7 : TOILET 8 : OFFICE 9 : GRAIN STORAGE
- (1) : SCREW CONVEYOR (2) : RATERING UNIT (3) : FLOUR MILLING UNIT
- (4) : PACKER (5) : SELECTOR (6) : GRANULE SELECTOR
- (7) : FLOOR MOUNTED HOPPER (8) : BUCKET CONVEYOR

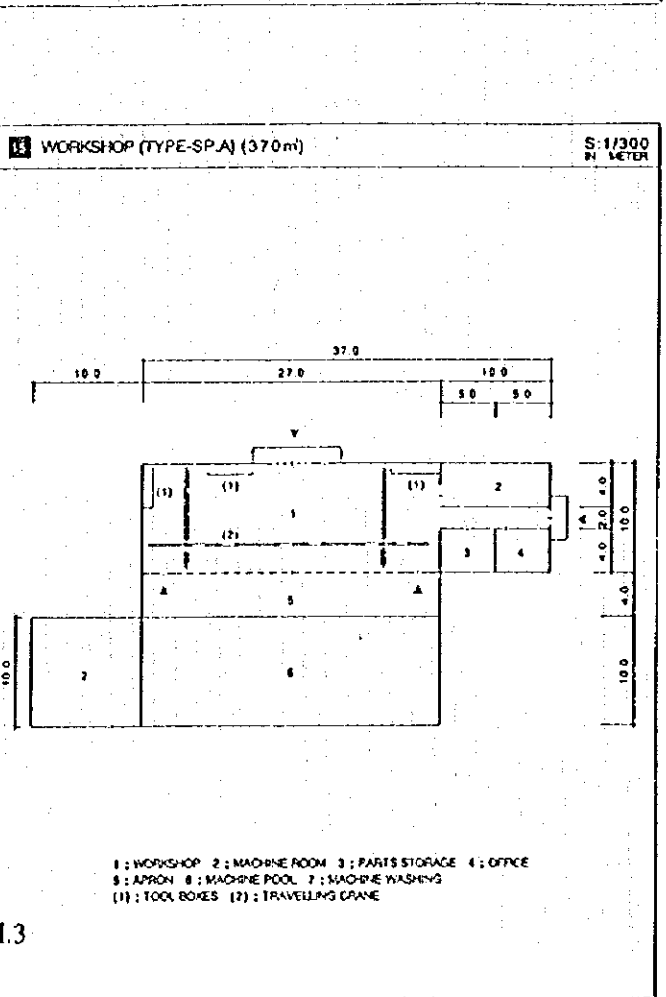
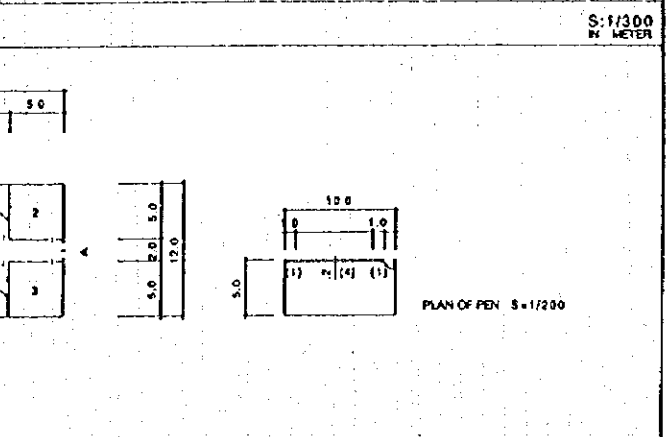
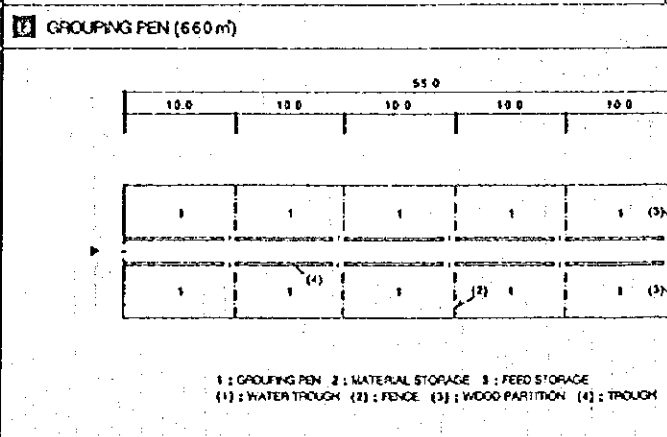
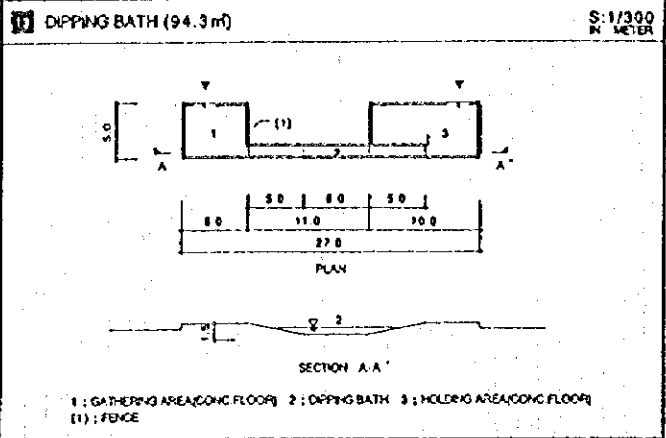
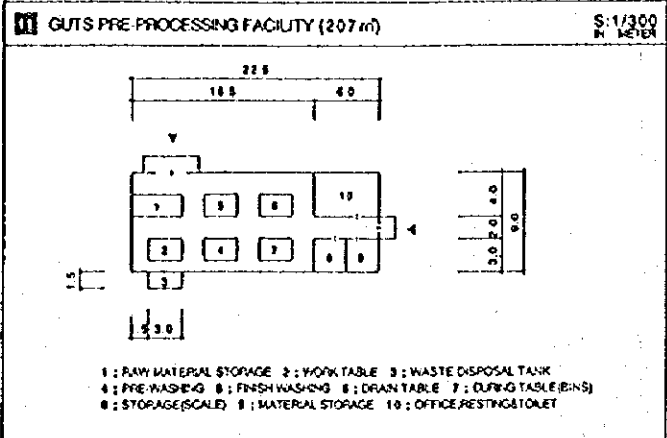
3 WHEAT DRYING YARD (DRYING YARD 5000 m², MEASURING CENTER 45.5 m)

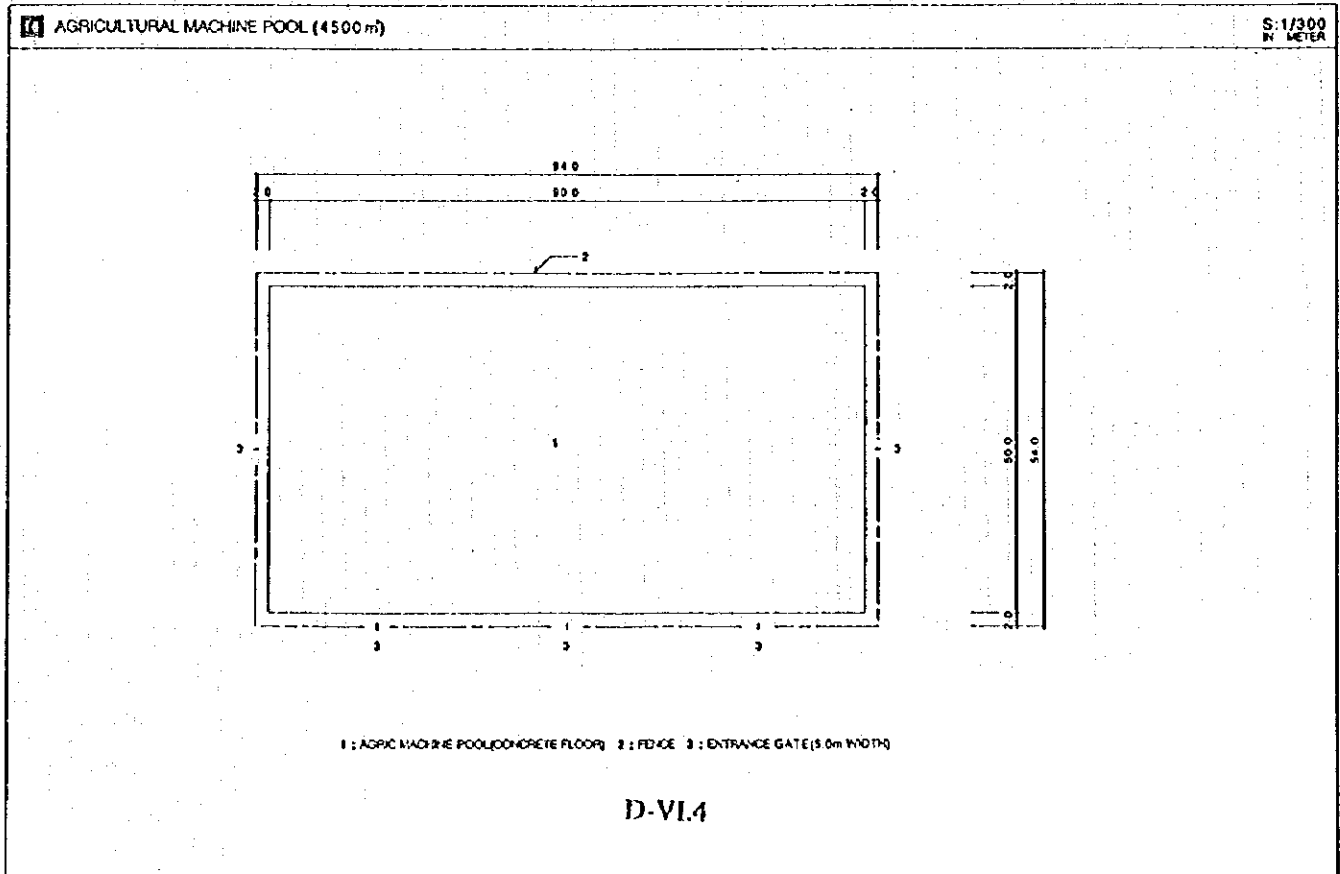
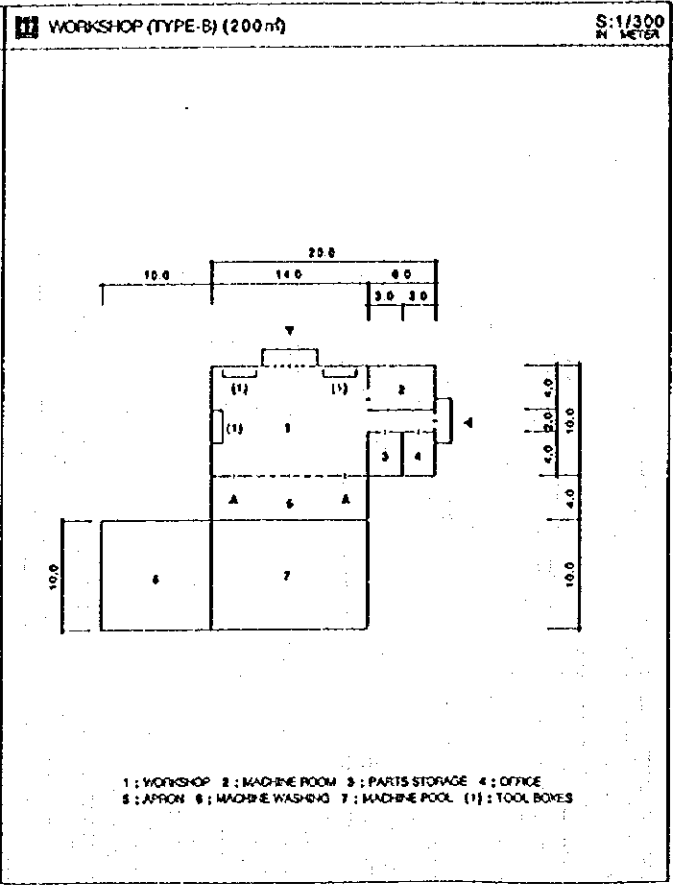
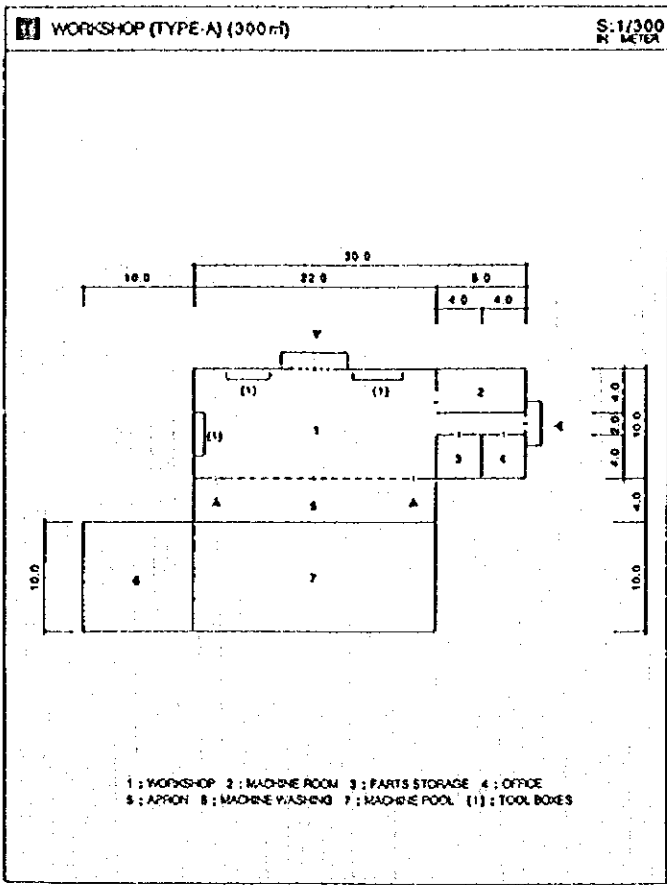
S:1/300
BY METER

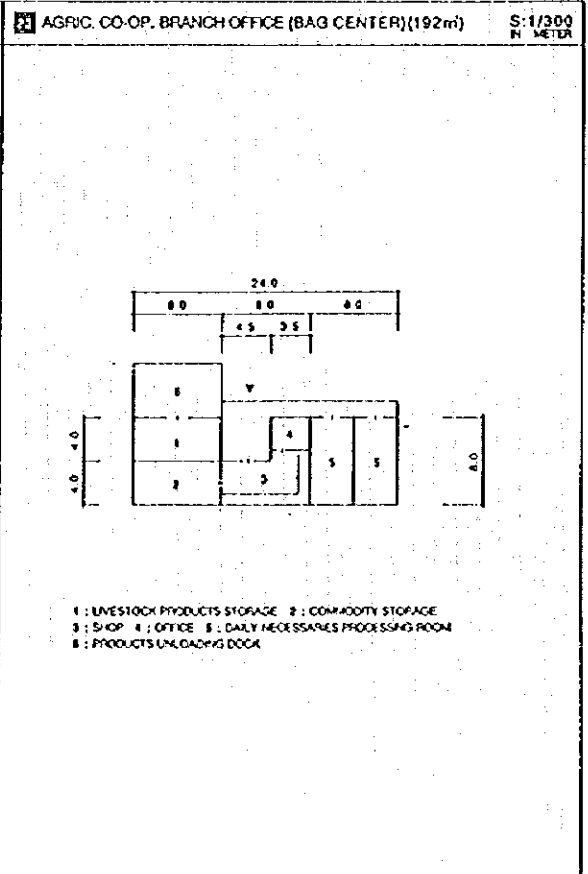
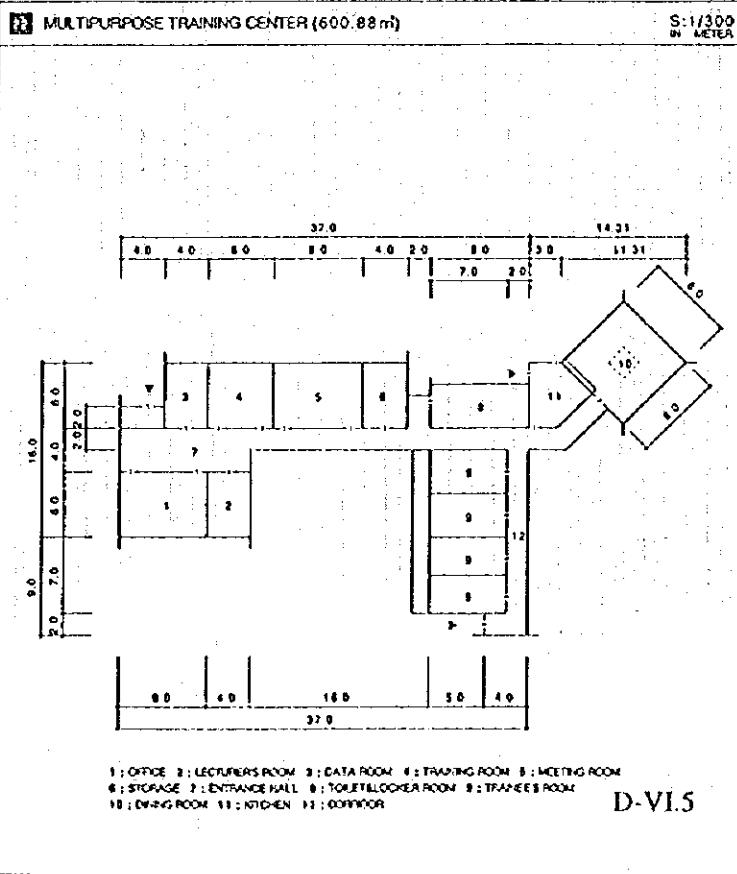
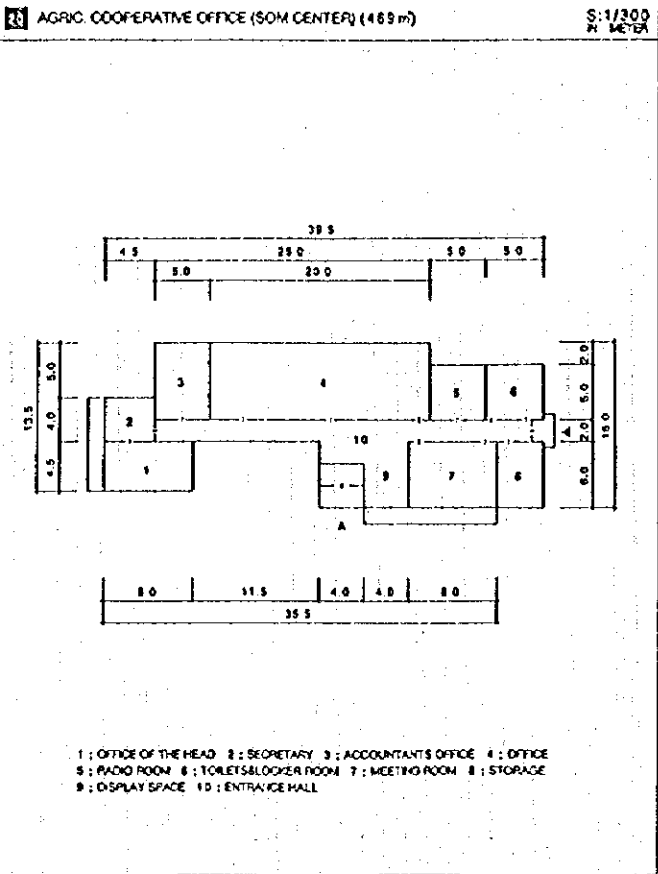
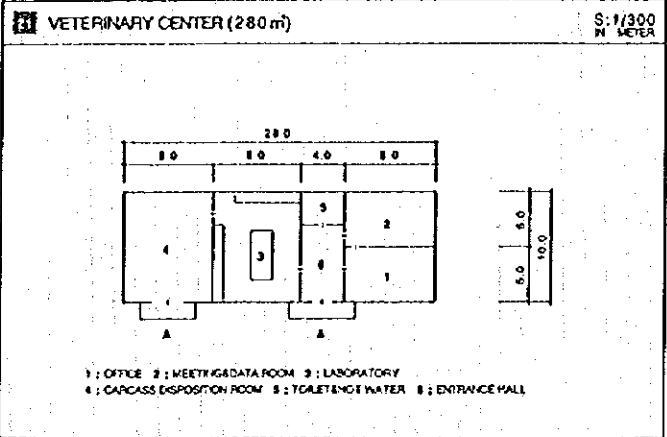
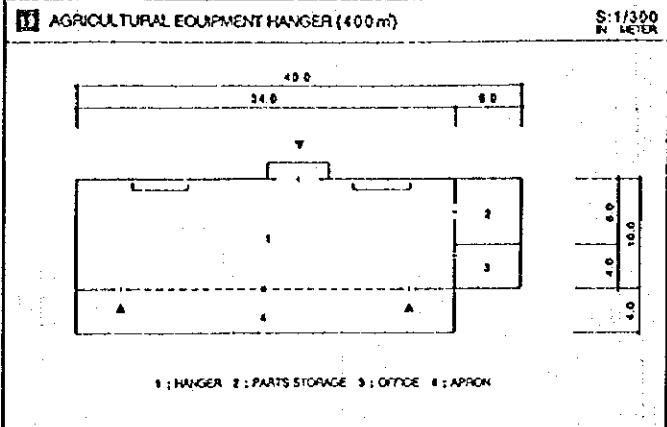


- 1 : WHEAT DRYING YARD 2 : WHEAT MEASURING CENTER 3 : MEASURING OFFICE 4 : FENCE (1) : TRUCK SCALE (2) : CURB

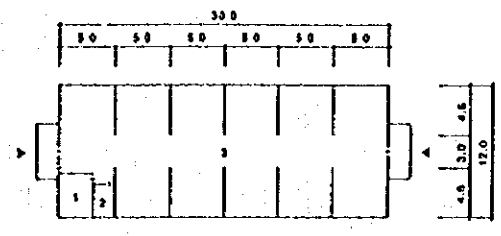






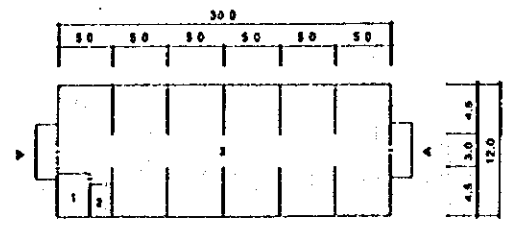


STORAGE (TYPE-A)(360m²) S:1/300 IN METER



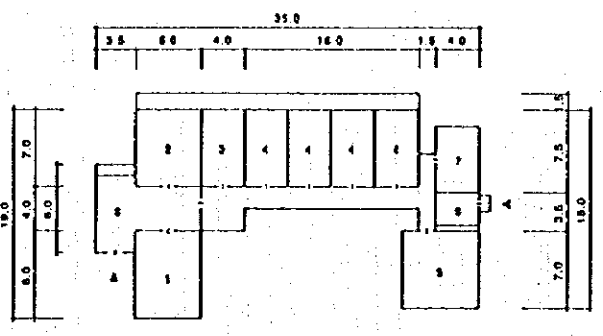
1: OFFICE 2: TOILET 3: STORAGE

STORAGE (TYPE-B)(360m²) S:1/300 IN METER



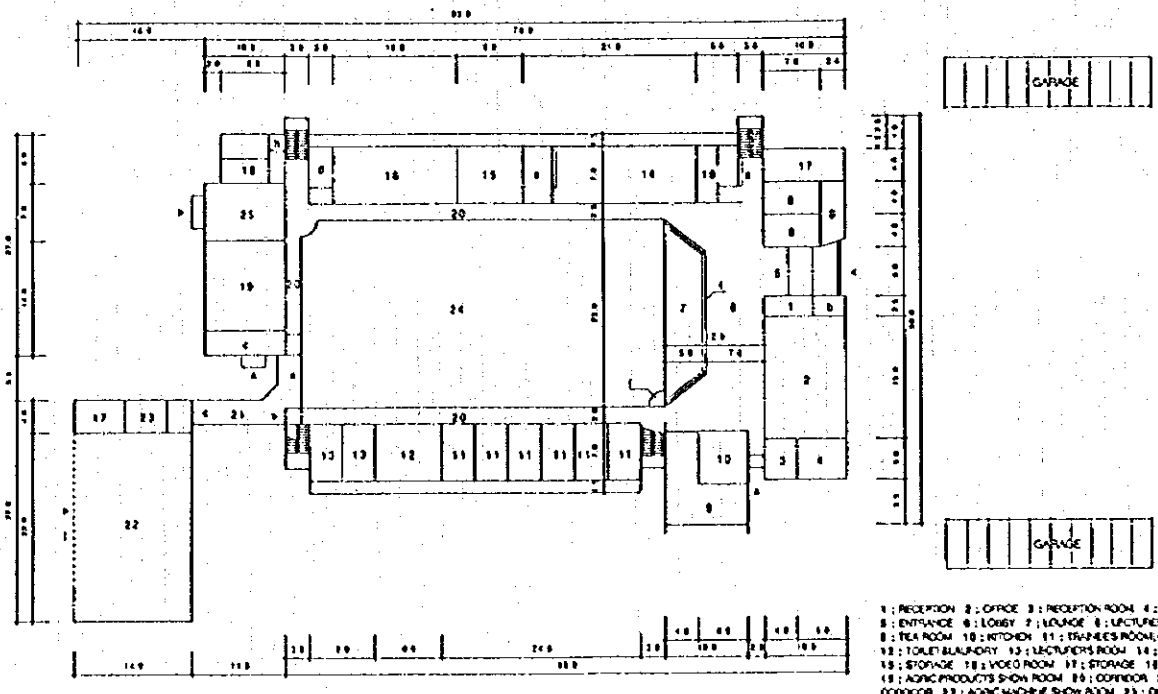
1: OFFICE 2: TOILET 3: STORAGE

PRODUCTION BASE MANAGEMENT OFFICE (427m²) S:1/300 IN METER



1: CONTROL OFFICE 2: STAFF'S STATION 3: STORAGE 4: RESTING ROOMS
5: DESIGN ROOM 6: KITCHEN 7: TOILET+SHOWER ROOM 8: ENTRANCE HALL

CENTRAL TRAINING & INFORMATION CENTER (CENTER GD. FLR 2096m², AGRIC. MACHINE SHOW ROOM 378m², GARAGE 300m²) S:1/400 IN METER



GROUND FLOOR PLAN S=1:400

1: RECEPTION 2: OFFICE 3: RECEPTION ROOM 4: MANAGER ROOM
5: ENTRANCE 6: LOBBY 7: LOUNGE 8: LECTURERS OFFICE
9: TEA ROOM 10: KITCHEN 11: TRAFFIC ROOM/UPH
12: TOILET+BLAUNDRY 13: LECTURERS ROOM 14: LIBRARY
15: STORAGE 16: VIDEO ROOM 17: STORAGE 18: TOILET
19: AGRIC. PRODUCTS SHOW ROOM 20: CORRIDOR 21: CONNECTION
CORRIDOR 22: AGRIC. MACHINE SHOW ROOM 23: OFFICE
24: COURTYARD 25: MACHINE ROOM
6: TELEPHONE OFFICE 6: CLOAK ROOM 6: PREPARATION ROOM
6: PROJECTION ROOM 6: LIFTWAY OFFICE 8: FLOWER BOX
6: FLOWER BED 8: HOT WATER STORAGE 8: ROLLING DOOR

JICA