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Final Report
The Study for Improvement Plan of
Livestock Farming System in Rural Area

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F.1 BACKGROUND

This series of PCM (Project Cycle Management) Workshop, which were held on herders, aimed at preparation for making proposals of the pilot study. Therefore, the goals of the Workshop were (1) To identify the overall problems and prioritized problems to be examined among herders, (2) To find the solutions/ measures of their problems, and (3) To make herder understood how to make proposals of the pilot study. So as to promote active discussion among them, the moderation during the workshops was conducted in Mongolian by a trained counterpart and assistant surveyors under the supervision of the Study Team.

F.2 METHODOLOGY

F.2.1 MODIFICATION OF PCM METHOD FOR THIS STUDY

Some parts of the original PCM method were modified according to the goals of the Workshop. In more details, Stakeholder Analysis, Problems Analysis, and Objectives Analysis were conducted in accordance with the original methods and purposes. Strategy Selection was conducted to see the participants' priority among their selected approaches to solve their problems on Objectives Tree. PDM (Project Design Matrix) was skipped during the 3 Days Workshops and was made by the Study Team after the proposals were selected and used in the beginning of the Workshops for "Plan of Operation" (herein after PO Workshop) to explain the summary (contents) of the pilot study.

F.2.2 FLOW OF PCM WORKSHOP

As already mentioned above, the aim of the workshops is preparation for making proposals of the pilot study. Flow of the PCM Workshop indicated in the figure below is designed in accordance with this aim.

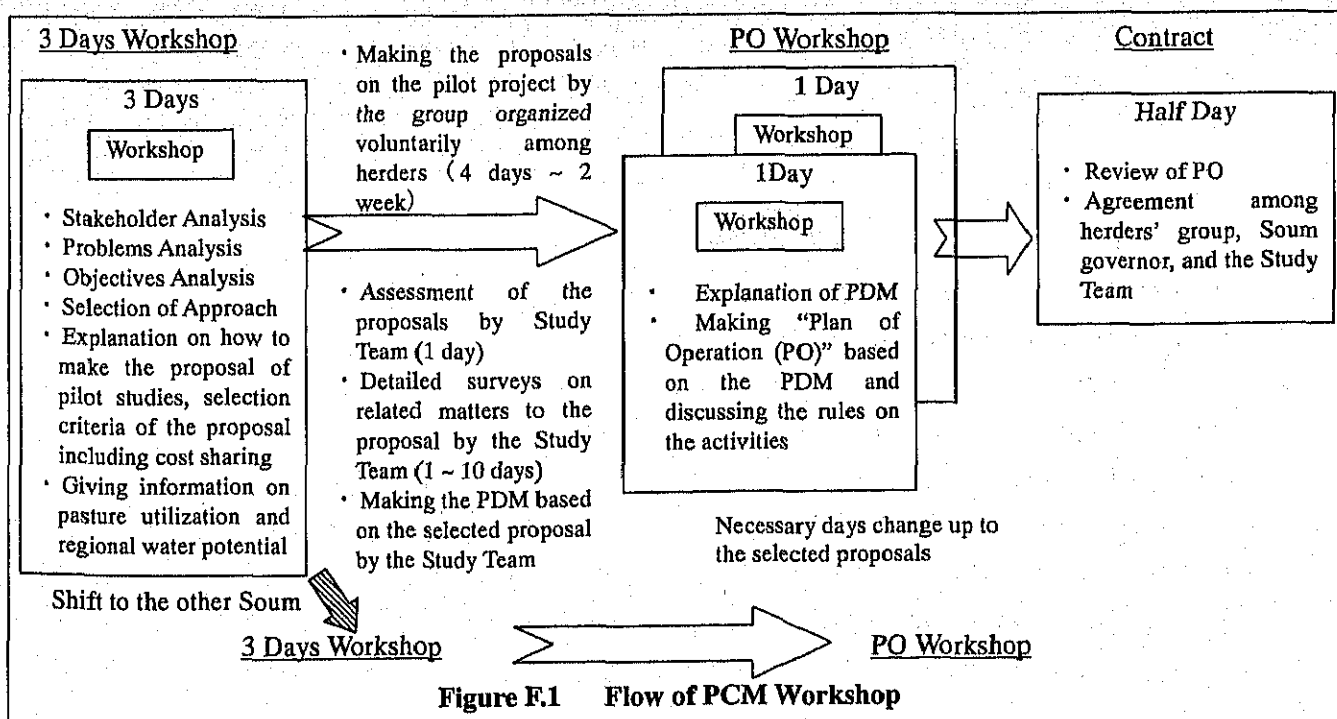


Figure F.1 Flow of PCM Workshop

F.2.3 EXPECTED PROJECT FRAMEWORK IN THIS STUDY

At the stage of Stakeholder Analysis, "Expected project framework" is determined prior to specific project planning. In this case, the "Expected project framework" was recognized as the projects for the improvement of the livestock farming system in each *Soum*.

F.2.4 WORKSHOP VENUES

The venues for the workshops were selected through the study during Phase I. They are 3 out of 14 *Soums* in *Dornogobi Aimag*: *Erdene*, *Ulaanbadrakh* and *Khuvsgul*.

Table F.1 Date and Venues of PCM Workshops

Type of Workshop	Date		Name of <i>Soum</i>
3 Days Workshop	26, 27, 28 August		<i>Erdene</i>
	31 August, 1, 2 September		<i>Khuvsgul</i>
	18, 19, 20 September		<i>Ulaanbadrakh</i>
PO Workshop	Date	Name of Well	<i>Erdene</i>
	7 September	Buhel (Rehabilitation)	
	24 September	Dorvolj (Rehabilitation)	
	24 September	Ulziit (New well)	
	29 September	Tsant (New well)	<i>Khuvsgul</i>
	13 September	Yast (New well)	
	24 October	Khayts (Rehabilitation)	
	6 October	Hooloin Hond (Rehabilitation)	<i>Ulaanbadrakh</i>
	7 October	Uvgun Mod (New well)	
	8 October	Zurkhiin Us (Rehabilitation)	
8 October	Tsaidam (Rehabilitation)		
26 October	Khukh Am (Rehabilitation)		

F.2.5 PARTICIPANTS

F.2.5.1 3 DAYS WORKSHOP

20 herders were selected by *Soum* Government according to the selection criteria of the workshop participants. The criteria were 1) male and female who engage in livestock farming and 2) some of the participants should be *Bag* governors and the heads of *Khot Ailes*. The participants also include *Soum* Government officers in charge of livestock farming or social issues.

F.2.5.2 WORKSHOP FOR "PLAN OF OPERATION"

In this phase, the workshops for "Plan of Operation" (PO Workshop) were conducted for the well rehabilitation or well construction pilot studies. For these workshops, all of the group members who belong to the selected proposals' groups were invited for the efficient and equal utilization of the well after rehabilitation or construction. Nevertheless, some of them could not join in or just did not come to the workshop due to following reasons such as too far location of their *ger* from *Soum* Center, lack of the persons who care their livestock, and the weak leadership of the group leader, and immature group organization. In this case, signatures of at least the heads of a family from each household consisting of the herder group were collected to make tentative agreement on the operation and maintenance of the well among the group, *Soum* governor, and the Study Team. This was because sometimes the herders' group was organized by not only those who could be responsible for Operation

and maintenance (hereinafter called O&M) of the well but also those who could not. In many cases, the absentees of the workshop were the latter.

E3 CONTENTS AND RESULTS OF THE PCM WORKSHOP

E3.1 3 DAYS PCM WORKSHOP

E3.1.1 SELF-INTRODUCTION (THE 1ST DAY)

At the stage of Self-Introduction, basic information of the participants can be shared. Self-Introduction is useful for icebreaking, too. The categories of the self-introduction are: (1) Name, (2) Age, (3) *Bag*, (4) Address (Location of winter camp/ shelter), (5) Total number of livestock, (6) Number of family members, (7) Number of families consisting of their Khot Aile, (7) Membership of Association (if yes, the name of association), and (8) Hobby. The characteristics of the workshop participants in each *Soum* indicated in Self-Introduction are summarized in the table below.

Table F.2 Characteristics of 3 Days Workshop Participants by Soum

	Erdene	Ulaanbadrakh	Khuvsgul
Average age (years old)	43	42.6	38.5
Distribution of the participants by <i>Bag</i> (person)	1 st : Ulaan Uul (Soum Center) 1 2 nd : Tsagaan Khotol 3 3 rd : Dorvolj 5 4 th : Burdene 5 5 th : Yenshoov 6	1 st : Sangiin Dalai 5 2 nd : Bayan Bogd 5 3 rd : Argalant 5 4 th : Nuden (Soum Center) 5	1 st : Javkhlaut 5 2 nd : Chuluut 9 3 rd : Elstei 5 4 th : 4 th Bag (Soum Center) 1
Number of livestock (head)	Average : 142 Maximum : 358 Minimum : 34	Average : 132 Maximum : 297 Minimum : 24	Average : 124 Maximum : 350 Minimum : 22
Av. Number of family members (person)	4.9	4.75	6.25
Av. Number of H/H* consisting Khot Aile (family)	1.4	1	2.1
Number of <i>Khorshoo</i> members (person)	0	9 (1 for Ulziibadrakh, 8 for Anand Rashaant)	13 (Bayarjavkhlaut <i>Khorshoo</i>)

Note: *H/H = Household

The participants came from all *Bags* almost equally in number in two *Soums* such as Erdene and Ulaanbadrakh. But 9 out of 20 participants came from the 2nd *Bag*, the farthest *Bag* from *Soum* Center, in Khuvsgul *Soum*. It could be assumed that the *Soum* Government intended to get the 2nd *Bag* population deeply involved in the JICA study. On the other hand, majority of the participants were not herders in Ulaanbadrakh *Soum*. They included the officers of *Soum* Government and the representatives of the *Khorshoo* (Cooperative). It seems that *Soum* Government intends to include not only herders but also *Soum* Government and *Soum* residents for more comprehensive discussion. Average number of total livestock is 142, 132.15, and 123.85 heads in Erdene, Ulaanbadrakh and Khuvsgul respectively. These numbers of livestock are less than the subsistence level (200 heads/family). Most of the participants organize their Khot Aile by one herding family in all *Soums*. In the other words, most of them graze their livestock on their own. This fact shows the characteristics of the Khot Aile in Gobi region. Nobody joins in *Khorshoo* although there are two *Khorshoos* (on livestock

farming and consumers) in Erdene *Soum*. It implies the low presence of these *Khorshoos* in Erdene *Soum*. On the other hand, about the half of the participants are the members of the *Khorshoo* in *Ulaanbadrakh* and *Khuvsgul Soums* because these *Khorshoo* succeeded the cooperatives of the communist era such as a branch of NEGDEL. Therefore, most of them automatically became the new *Khorshoo* members without any strong interests.

F.3.1.2 STAKEHOLDER ANALYSIS: GROUP CATEGORIZATION AND DETAILED ANALYSIS (THE 1ST DAY)

1) Group Categorization

Group Categorization was conducted with the following categories: “Beneficiaries,” “Negatively Affected Group,” “Decision Makers,” “Funding Agencies,” “Implementing Agencies,” “Community Leader,” “Potential Opponents,” and “Supporters.” The participants pointed out that there were no “Negatively Affected Group” and “Potential Opponents” in three *Soums*. In Erdene, even all population of the *Soum* was categorized as “Beneficiaries.” *Bag* governors in stead of *Soum* governor were recognized as “Community Leader” in three *Soums*. This might indicate the stronger relationship between *Bag* governors and herders than that of *Soum* governors.

2) Detailed Analysis

In Detailed Analysis, “Basic Information,” “Problems,” “Needs,” “Weakness,” and “Strengths” of selected stakeholder groups were collected. The selected groups by *Soum* are shown in Table F.3. As for “herders, their characteristics are quite similar among three *Soums*. For example, average number of livestock is 150 heads in

Table F.3 Selected Groups by *Soum*

Name of <i>Soum</i>	Selected Groups
Erdene	Herders <i>Soum</i> Government Veterinary service
<i>Ulaanbadrakh</i>	Herders <i>Soum</i> Government Anand Rashaat Cooperative (<i>Khorshoo</i>)
<i>Khuvsgul</i>	Herders <i>Soum</i> Government Bayarjavkhlaht Cooperative (<i>Khorshoo</i>)

Ulaanbadrakh and *Khuvsgul* (300 heads in Erdene). Moreover, common problems among herders in three *Soums* are the exceeded monthly expenditure by monthly income, shortage of water supply both for pasture and human beings, shortage of cash, natural disaster (Dzud and draught), and shortage of the information from mass media and publications.

F.3.1.3 PROBLEM ANALYSIS (THE 2ND DAY)

The participants discussed the problems concerning “improvement of livestock farming system in the *Soum*” and analyzed their present problems with a cause – effect relationship. The Core Problem, which is the starting point of Problem Analysis, Direct Causes and Direct Effects of each *Soum* are summarized in the Table F.4.

Table F.4 Summary of Problems Analysis by Soum

Name of Soum	Core Problem	Direct Cause	Direct Effects
Erdene	Low level of herder's living standard	<ol style="list-style-type: none"> 1) Shortage of pasture water supply 2) Poor breeding selection 3) Low price for livestock products 4) Low population 5) Poor livestock management by herders 	<ol style="list-style-type: none"> 1) Decrease of consumption level 2) Decrease of educational opportunities for herders households
Ulaanbadrakh	Low level of herder's living standard	<ol style="list-style-type: none"> 1) Knowledge and education of herders are insufficient 2) Herder's cash income is small 3) Variety of livestock deteriorates 4) Livestock cannot be fat enough 5) Number of livestock is small 6) By-products (raw materials)' price is low 	<ol style="list-style-type: none"> 1) Herders are mentally disappointed 2) Educational opportunities decrease 3) Purchasing power decreases
Khuvsgul	Poverty of herder	<ol style="list-style-type: none"> 1) Herders are isolated from the market 2) By-products (raw materials)' price is low 3) Shortage of cash 4) Less # of animals 5) Low productivity per animal 	<ol style="list-style-type: none"> 1) Lack of opportunities for educating herder's children 2) Decline in consumption of goods 3) Determination of herder's health condition

Core Problems of three *Soums* are almost the same. Accordingly, it can be said that a poverty of herder is the familiar problem around the southern part of *Dornogobi Aimag*. Problem Trees of three *Soums* indicate many common problems and their problems can be roughly categorized into five: 1) problems concerning livestock (selling price, marketing, productivity, number, veterinary service etc.), 2) shortage of water supply on the pasture, 3) shortage of cash on herders' hand, 4) lack of herders' experience and knowledge on their herding and 5) natural disaster (Dzud and drought). Unique problem to *Khuvsgul Soum* is the damage of the pasture by wild animals such as antelopes, wild asses and grasshoppers. In general, these three Problem Trees seem to cover all of the herders' main problems. It means the herders understand and consider their present main problems including their own herding technique.

F.3.1.4 OBJECTIVES ANALYSIS (THE 3RD DAY)

The participants discussed the solutions of the problems during this Analysis. The negative conditions of problems were restated into future improved condition and arranged with means – end relationship. The Core Objective, which is the restatement of Core Problem, Direct Means, and Direct Ends are summarized in Table F.5.

Table F.5 Summary of Objectives Analysis by Soum

Name of Soum	Core Objective	Direct Means	Direct Ends
Erdene	Improved living standard of herders	<ol style="list-style-type: none"> 1) Sufficient pasture water supply 2) Superior/ highly productive animals are introduced 3) Raw materials price is increased 4) Adequate population growth 5) Herders have good husbandry methods and practices 6) Number of livestock increases 	<ol style="list-style-type: none"> 1) Increase of herders' H/H consumption level 2) Increase of educational opportunities for herding H/H
Ulaanbadrakh	Herders' living standard is improved	<ol style="list-style-type: none"> 1) Herders with knowledge and education 2) Herders who have sufficient cash for meeting their demand 3) Highly productive animals 4) Fat livestock 5) Sufficient # of livestock 6) Livestock raw materials are expensive 	<ol style="list-style-type: none"> 1) Herders are satisfied 2) Opportunities for leaning and education increase 3) All consumption increases
Khuvsgul	Wealthy herders	<ol style="list-style-type: none"> 1) Improved access of herders to market 2) Livestock and by-products prices increase 3) Herders have sufficient cash 4) Increased # of livestock 5) Highly productive livestock 	<ol style="list-style-type: none"> 1) Educational opportunities of herders' children are improved 2) Consumption of goods and services increases 3) Opportunities for better health are improved

The solutions to the categorized problems mentioned above and their measures/ solutions are summarized in Table F.6.

Table F.6 Main Problems and their Measures/ Solutions

Main problems	Measures/ Solutions
1) Concerning livestock	
- Selling price	<ul style="list-style-type: none"> - Strengthening of <i>Khorshoo's</i> capacity - Highly qualified livestock and by-products
- Marketing	<ul style="list-style-type: none"> - Provision of marketing knowledge to herders - Organization of auctions for superior animals at local levels
- Productivity	<ul style="list-style-type: none"> - Well operation of breeding and selection - Sufficient water - Sufficient pasture - Herders' cooperation
- Number	<ul style="list-style-type: none"> - Raising of young livestock without losses - Reduction of barren females
- Veterinary service	<ul style="list-style-type: none"> - Decreases of service fare of livestock hospital - Provision of preventive services from the hospitals for livestock
2) Shortage of water supply on the pasture	<ul style="list-style-type: none"> - Development of new wells - Rehabilitation of broken wells - Herders' cooperation - Taking good care of wells - Protection of environment
3) Shortage of cash on herders' hand	<ul style="list-style-type: none"> - Introduction of services for providing concessional loan to herders - Increase of livestock and by-products price
4) Lack of herders' experience and knowledge on herding	<ul style="list-style-type: none"> - Transfer of herding methods and experience - Learning from the best herders' practice - Improvement of herders' initiatives - Herders' cooperation
5) Natural disaster (Dzud and drought)	<ul style="list-style-type: none"> - Establishment of hay and fodder fund - Organizing of <i>Otor</i> (nomadic migration) - Scheduled use of the pasture

The discussion to identify the solutions of the problems was very active. The participants tried to find the good and effective solutions and the results were fruitful as indicated in the table above. Particularly in *Ulaanbadrakh Soum*, it must be noteworthy that the participants pointed out the importance of the Government's role in the improvement of livestock productivity, for instance, "Soum Government (should) put much value on livestock improvement through breeding."

F.3.1.4 STRATEGY SELECTION (THE 3RD DAY)

Based on the Objectives Analysis, the participants selected the three prioritized strategies among some approaches in each *Soum*. Finally, they selected the first prioritized

Table F.7 First Prioritized Strategy by Soum

Name of Soum	First Prioritized Strategy
Erdene	Sufficient Pasture Water Supply
<i>Ulaanbadrakh</i>	Herders' living standard is improved
<i>Khuvsgul</i>	Highly Productive Livestock

strategy through all participants' discussion. The objectives of these strategies are indicated in Table 7. During the discussion for Strategy Selection, all of the participants were very excited. The discussion to select one strategy among three was so active specially in *Ulaanbadrakh Soum*. As a result, they decided to combine the part of two strategies (the objectives are "Water supply for pasture is sufficient" and "Livestock raw materials are expensive") to aim a bigger objective, "Herders' living standard is improved." The components of the selected strategies of all *Soums* include the improvement of water supply on the pasture. This shows the importance and the severity of the water supply problems in these three *Soums*. Moreover, it is interesting that two of these *Soums* (*Khuvsgul* and *Ulaanbadrakh*) include the components of small-scaled processing of livestock or its by-products in their first prioritized strategies. Inevitably, the herders' groups of these *Soums* submitted totally 6 project proposals on small-scaled processing of livestock or its by-products besides on well rehabilitation and construction. The details of "Proposal Collection" will be explained in 2) Workshop for "Plan of Operation" (PO Workshop).

F.3.2 WORKSHOP FOR "PLAN OF OPERATION" (PO WORKSHOP)

F.3.2.1 PROPOSAL COLLECTION

The proposal collection was conducted in each *Soum* after 3 Days Workshop, taking a half day. The proposals were made by the herders group basically based on the analysis during the 3 Days Workshops. The proposal collection consists of two steps: 1) the selection criteria shown in the right box and the selection procedure are reconfirmed, and 2) the requirements of applying for the project (contents of the proposals) are confirmed through the short interview with herders' group members. In case of the proposals on the well rehabilitation or construction, the locations of present used wells, and spring/ summer and

<Selection Criteria of Proposals>

1. Existence of strong leadership in a group
2. Existence of the members who highly willingly to join in the project (Are they already grouped?)
3. High intension of cost sharing
4. Possibility of the achievement of the project purpose
5. Contribution to income/ living standard improvement
6. Well consideration of the balance between water and pasture
7. Cost/ Benefit (Less cost/ higher benefit (ex. Improvement of carrying capacity))
8. Project which will be implemented in a period that the Study Team can monitor, and which will produce a certain output during that period
9. Easy to access (Project site)
10. Consistent with the policy priority of Soum and Aimag

fall/ winter camps were identified on the map and drawings for the reference to select the proposals. In addition, most of the proposals were not complete. Usually, the problems could be identified but the objectives to implement the proposed projects were not clear enough. Therefore, rewriting of the proposals was often required.

F.3.2.2 PROPOSAL SELECTION

The collected proposals were selected by the Study Team according to the selection criteria mentioned above and the field survey conducted by the Study Team. The steps of selecting proposals were two: 1) checking the contents of the proposals (whether the proposals meet the requirement) and 2) evaluating each project with grade by ranking with “++”, “+”, “no mark”, and “-”. The results of the selection were notified to the herders before conducting the PO Workshop by the Study Team and *Soum* Government in each *Soum*. The number of selected projects based on the submitted proposals by the herder groups is 2 out of 16, 2 out of 9, and 4 out of 16 in Erdene, *Khuvsgul*, and *Ulaanbadrakh* respectively. In this time, only the proposals on the projects of well rehabilitation and construction were selected to provide the well for winter camps. The proposals on the projects with the other components than the well construction and rehabilitation such as felt processing, felt making and hides and skins processing were postponed to be selected because it requires more detailed survey on the feasibility. The summary of the submitted proposals and the result of proposal selection were attached in F.5.

F.3.2.3 WORKSHOP FOR “PLAN OF OPERATION”

Workshops for “Plan of Operation” (PO Workshops) were held for efficient and equal utilization of the well after rehabilitation or construction this time. Firstly, based on the selected proposals, the Study Team formed PDM (Project Design Matrix: the summary of the project/ plan). After the explanation of the PDM, Plan of Operation (PO) was formulized through the discussion of the herder group who submitted the relevant proposal.

PO consists of “Activities (from PDM),” these Activities’ “Expected Results,” “Indicators,” “Schedule,” “Person in Charge,” “Implementer,” “Costs,” “Cost Payer,” and “Factors to be Considered.” The POs of each herder group are reported in F.5 “Attachment”. One of the complicated matters of the PO was “Cost payer.” This was because the definition of “rehabilitation of wells” and “construction of new wells” was different between herders and JICA (the Study Team). In the era of socialism, “rehabilitation / construction of wells” included rehabilitation/ construction of all related facilities to the relevant wells such as a pump shed, a fence, a water reservoir tank and a water trough. Therefore, herder expected JICA (the Study Team) much cost sharing although JICA intended to provide the minimum assistance for them such as rehabilitation / digging wells with installing tubes, pumps and generators.

Besides the plan of operation, following items should have been discussed such as division of works among the group members, rules of O & M of the relevant wells, rules of well utilization, rules of pasture management, and monitoring items. Breakdowns of these items

Table F.8 Items to be Determined

Division of works	<ul style="list-style-type: none"> - Person in charge of operating - Person in charge of pump and equipment maintenance - Person in charge of facilities (key holder) - Person in charge of collecting O & M fee (money collector)
Rules of O & M	<ul style="list-style-type: none"> - Way of collecting O & M fee - Allocation of O & M cost
Rules of well utilization	<ul style="list-style-type: none"> - Order/ turn - Temporary users (+ fee) - Emergent users (+ fee) - Unused period
Rules of pasture management	<ul style="list-style-type: none"> - Date of the lecture/ herders' group meeting (Based on the lecture conducted by the Study Team, the herders' group determines)
Monitoring items	<ul style="list-style-type: none"> - Operational condition of the well - Maintenance record - Collection of the fee

are indicated in Table 8. Nevertheless, the items mentioned above could not be determined during the workshop because most of the groups could not gather all members or it took too much time to determine during the workshop period (one day/ PO Workshop). Accordingly, the participants decided the date of the whole group meeting to determine these items. Therefore, it must be confirmed whether the herders' groups have already decided them during the monitoring in winter.

F.4 CONCLUDING REMARKS

Through the whole process of the workshop (3 Days Workshop and PO Workshop), herder actively discussed and joined in the workshop. Only the problem was what some of the group member often did not show up or were delayed at the meeting time. In case of that even the group leader or *Soum* Government cannot gather the group members, this might cause a O&M problem of the wells in the near future. This is because it means the group members cannot meet together when necessary, when the trouble comes out for example.

F.5 ATTACHMENT

F.5.1 SELF-INTRODUCTION

(1) *Erdene Soum*

Self-Introduction (3 Days PCM Workshop in Erdene)

	Name	Age	Sex	Bag Name	Address	Livestock *1	<i>Khot Aile</i> *2	No. of Families	Association Member?	Hobby
1	T. Sembe	61	M	Burdene	Sukhai	259	1	5	No	Playing chess
2	Maam	55	F	Dorvolji	Ulziit	50	1	2	No	Singing
3	H. Enkhbuyar	42	M	Yenshoov	Tawan Ukhaa	125	1	2	No	Singing
4	S. Enkhjargal	26	F	Dorvolji	Modon	358	1	4	No	Travelling
5	N. Purevdoj	27	M	Burdene	Khadan Khyar	300	2	8	No	Training race horses
6	Monkhzul	27	F	Yenshoov	Tshohion	88	3	5	No	Knitting and sewing
7	Ulziikhutag	61	M	Yenshoov	Tshohion	88	3	5	No	Making ropes
8	E. Ouyibat	45	M	Dorvolji	Dolood	200	2	5	No	Training race horses
9	D. Raasav	35	M	Dorvolji	Khokh Tolgoi	115	2	5	No	Playing chess
10	Ch. Bayar	48	F	Tsagaan Khotol	18-g	75	1	6	No	Sewing
11	Ts. Tsetseg	50	F	Yenshoov	Dersen Shand	153	1	4	No	Knitting and sewing
12	Lusuaa	60	M	Burdene	Sukhai	160	1	8	No	Travelling
13	H. Chuluunbaatar	49	M	Burdene	Ulziit 3, <i>Soum</i> Center	145	1	8	No	Training race horses
14	S. Munkhbaatar	37	M	Tsagaan Khotol	Ekhen Us	104	1	4	No	Knitting and sewing
15	D. Sergelen	39	M	Yenshoov	Ulziit 5, <i>Soum</i> Center	80	1	5	No	Training race horses
16	M. Zorigtkhum	43	M	Burdene	Tsagaan Ders	73	1	4	No	Training race horses
17	M. Batbold	32	M	Dorvolji	Tsagaan Khuday	218	3	3	No	Playing chess
18	T. Naranzul	42	F	Vlaan Vul	Suuj 2-2	34	0	4	No	Singing
19	H. Khurelehulyyn	43	M	Tsagaan Khotol	18-g	85	1	8	No	Training race horses
20	I. Dulamjav	38	M	Yenshoov	Nyden	130	1	3	No	Training race horses

Note: *1 Total Number of Livestock
*2 Number of families consisting of "Khot Aile"

(2) Ulaanbadrakh Soum

Self-Introduction (3 Days PCM Workshop in Ulaanbadrakh)

	Name	Age	Sex	Bag Name	Address (Winter camp)	Livestock *1	Khot Aile*2	No. of Families	Association Member?	Hobby
1	Batbold	27	M	Bayanbogd	Sharga Ovoo	82	2	3	None	Do whatever interests
2	Ganbaatar	40	M	Bayanbogd	Soum Center	24	None	5	Anand Rashaant	Travel to places of natural beauty
3	Munkhtsetseg	39	F	Nuden	Soum Center	160	None	5	None	Listening to music and do crosswords
4	Odonchimeg	32	F	Argalant	Khar Hoshuu	30	1	4	None	Knitting
5	Baatar	55	M	Sangian Dalai	Shavag	297	1	5	None	To train race horses
6	Narangua	43	F	Nuden	Soum Center	28	None	2	Anand Rashaant	Natural sightseeing
7	Bayrmagnai	42	M	Argalant	Dersene Us	51	3	4	Anand Rashaant	To train race horses
8	Sumiya	46	M	Bayanbogd	Tsovuunii Shanaga	100	None	8	Anand Rashaant	Wrestling
9	Munkhnasan	30	F	Argalant	Khar Hoshuu	280	3	5	Anand Rashaant	Sewing
10	B. Banid	68	M	Argalant	Hulsan	80	1	2	Anand Rashaant	To train race horses
11	Asraljav	49	M	Bayanbogd	Khadan Shand	200	1	7	None	To train race horses
12	Adiyanyam	44	F	Nuden	Soum Center	30	None	5	None	Collection of cups and plates
13	Sugarjav	45	M	Nuden	Soum Center	60	None	8	Ulziibadrakh	Holidaying in the natures beauties
14	Adiyasuren	32	M	Nuden	Nuden, Ulaanbadrakh	24	None	5	None	Listening to music
15	Otgonbyamba	32	F	Argalant	Hujirt	290	1	5	Anand Rashaant	To collect singers photos
16	P. Orgoi	54	M	Bayanbogd	Tsaidam Hongor, Baynbogd	156	1	5	Anand Rashaant	To train race horses
17	Selenge	35	F	Sangian Dalai	Gishger	136	2	4	None	Sewing
18	Sarantuya	54	F	Sangian Dalai	Hungeneh Tsagaan Ovoo	150	3	3	None	Knitting
19	Narantuya	29	F	Sangian Dalai	Bunkhant	400	1	7	None	Sewing
20	Henmedeh	56	F	Sangian Dalai	Nudengiin Khar Ovoo	65	None	3	None	Reading

Note:

*1 Total Number of Livestock

*2 Number of families consisting of "Khot Aile"

(3) Khuvs gul Soum

Self-Introduction (3 Days PCM Workshop in Khuvs gul)

	Name	Age	Bag Name	Address (Winter camp)	Livestock *1	Khot Aile*2	No. of Families	Association Member?	Hobby
1	Tsereushiima a	45	2nd Bag/ Chulnuut	Chulnuut	150	3	8	Bayarjavkhlaut Cooperatives	Music and cooking
2	Naidan	50	2nd Bag	Khuvs gul Soum Center	75	2	7	Bayarjavkhlaut Cooperatives	Hunting
3	Hamsuren	42	2nd Bag	Hulgar	300	2	10	No	Sewing and knitting
4	Ganbold	31	2nd Bag	Bumbat	80	2	4	No	Songs
5	Namspaisuren	34	2nd Bag	Alfadyu Khoshaa	210	5	4	Bayarjavkhlaut Cooperatives	Ping-pong
6	Sukhbaatar	55	3rd Bag/ Elst	Gel Buloy	150	2	8	No	Music
7	Baatar	39	2nd Bag	Hujor Hoovor	60	2	10	Bayarjavkhlaut Cooperatives	Painting
8	Gantomor	33	2nd Bag/ Chulnuut	Bag Center	40	2	5	Bayarjavkhlaut Cooperatives	Sewing and making ropes
9	Sesor	37	2nd Bag	Dersenus	70	2	6	Bayarjavkhlaut Cooperatives	Making musical instrument (horse headed fiddle)
10	Oigonjorgal	30	3rd Bag/ Elst	Soum Center	50	2	6	No	Traveling
11	Nasanbayar	32	2nd Bag/ Chulnuut	Khushuuny Buush	100	1	5	Bayarjavkhlaut Cooperatives	Naadam
12	N. Boldbaatar	47	4th Bag	Soum Center	280	1	6	Bayarjavkhlaut Cooperatives	Board Game
13	Nyamsuren	34	1st Bag	Soum Center	100	3	4	No	Painting
14	Batmunkh	25	1st Bag	Tsagaan Ereg	22	1	9	No	Black smith
15	Nasanchimed	42	3rd Bag/ Elst	Hajuu	140	1	4	Bayarjavkhlaut Cooperatives	Sewing and knitting
16	T. Sugelmaa	26	1st Bag	Aman Us	100	2	5	No	Sewing and knitting
17	Buyandelger	45	3rd Bag/ Elst	Khuvs gul	70	2	7	Bayarjavkhlaut Cooperatives	Naadam
18	Dorjvaanahig	45	3rd Bag/ Elst	Toiromyn Us	350	2	6	Bayarjavkhlaut Cooperatives	Training race horses
19	Gunsennorov	45	1st Bag	Nuden	50	3	6	Bayarjavkhlaut Cooperatives	Herding
20	Erdenejorgel	32	1st Bag	Aman Us	80	2	5	Bayarjavkhlaut Cooperatives	Sport games

Note: *1 Total Number of Livestock
*2 Number of families consisting of "Khot Aile"

F.5.2 STAKEHOLDER ANALYSIS

(1) Result of *Erdene Soum*

- Group Categorization (3 Days PCM Workshop in *Erdene*)

Beneficiaries	Negatively Affected Group	Decision Makers	Funding Agencies	Implementing Agencies	Community Leader	Potential Opponents	Supporters
Herders		<i>Soum</i> Government	Project staff	Agricultural officer	Bag Governor		- Herders
Resident of <i>Soum</i>			<i>Soum</i> Government	Project implementer	"Khot Aile" leader		- <i>Soum</i> - Administrators - Veterinarian - Hospital - Medical doctor - Veterinary clinic

Stakeholder Analysis - Detailed Analysis (3 Days PCM Workshop in *Erdene*)

"Veterinary Service"

Basic Information	Problems	Needs	Strength	Weakness
1 veterinarian	Lack of staff	Water pump	Reduced disease occurrence of livestock	Poor quality of dipping (due to chemical)
1 UAZ-469 (Russian jeep)	Poor condition of the car	Injection		Insufficient breeding service
3 dipping facilities	Shortage of assisting staff	New car		Unavailability of timely service
52,506 livestock	Lack of water supply	Establishment of new well		
Drugs and injections as preventive measures	Shortage of common drugs			

Stakeholder Analysis - Detailed Analysis (3 Days PCM Workshop in *Erdene*)

"Herders"

Basic Information	Problems	Needs	Strength	Weakness
Medium level of education	Dzud	Solar and wind power generator	Close to railway	Lack of cooperation
Average 8 members per H/H	Shortage of drinking water	Wooden materials for making fences	Close to market	Herders' initiatives are weak
Average 300 heads of livestock	Draught	Free trade zone	Good health service	Lack of subscription of magazines and newspaper
Average monthly income: Tg 4,000	Shortage of cash	Water supply on pasture	<i>Soum</i> Center connects to electricity network	High level of unemployment
Average monthly expenditure: Tg 5,000	Shortage of newspaper and magazines Shortage of labor (at the busiest time)	Building of dormitory for herders' children		

Stakeholder Analysis - Detailed Analysis (3 Days PCM Workshop in Erdene)

"Soum Government"

Basic Information	Problems	Needs	Strength	Weakness
Meeting of citizens' representatives (20 members)	Low budget	Drinking water	Close to market	Herders' school age children do not have sufficient dormitory facilities
Soum Governor	Herders are isolated	More professional staff is required	Connecting to electricity network	Bag communication facilities are under utilized
25 people in government office	Difficulties to deliver information to herdgers			Increase of drinking problems
5 Bags (1. Soum Center/ Ulaan Uul), 2. Tsagaan Khotol, 3. Dorvolj, 4. Burdene, 5. Yenshoov)				Insufficient measures against livestock theft
Average monthly expenditure: Tg 5,000				Lack of electricity supply for Bag Center

(2) Result of Ulaanbadrakh Soum

Stakeholder Analysis - Group Categorization(3 Days PCM Workshop in Ulaanbadrakh)

Beneficiaries	Negatively Affected Group	Decision Makers	Funding Agencies	Implementing Agencies	Community Leader	Potential Opponents	Supporters
Herders		Soum Government, Agricultural Officer,	Agricultural Bank, Soum Government	Nomt Dalai inc.(Veterinary Service), Anand Rashaant Cooperatives, Ulzilbadrakh Cooperatives	Bag Governor		<ul style="list-style-type: none"> - Post office, - Communication office - Educational institutions (school, dormitory) - Hospital Cultural facilities, - Soum energy sector (electricity) - Meteorological station

Stakeholder Analysis - Detailed Analysis (3 Days PCM Workshop in Ulaanbadrakh)

"Anand Rashaat Cooperatives"

Basic Information	Problems	Needs	Strength	Weakness
Established in 1998	VAT	Establishment of a small scale factory (juice, candle, soap, felt and etc.)	Management (weak organizational power)	Facilities, equipment and storage are enough
511 members	Herders have small cash	Capital source (loan, aid)	Weak competitiveness of the market	Close to the boarder for trading
Description of business:	Natural disaster	Storage of dried plants and fodder (to the members)	Members are not active	Good transportation access
Commerce	Members live scattered	Stable electricity supply	Shortage of capital	Many members
Sales of livestock products (Shipping)	Expensive fuel/ shortage of fuel			Enough personnel
Gas station	Energy problems cannot be solved			

Side business (agriculture)				
Boarder trade				
Capital fund: Tg. 32.0 million				
Asset: Tg. 11.8 million				
Employee: 12 persons				
Annual shipment value (sales): Tg. 70 some million				
Benefit: Tg. 2.4 million				

Stakeholder Analysis - Detailed Analysis (3 Days PCM Workshop in Ulaanbadrakh)

"Herders"

Basic Information	Problems	Needs	Strength	Weakness
Average 5 family members	Natural disaster (Dzud, drought, wind)	Cash	Lack of cooperation	Rich experience of pasturage
Average livestock number: 150	Water supply for the pasture	Breed improvement of livestock	Lazy and herders intend to get completed things from the others	Affluent pasture
Annual income: Tg. 385,000 (cash)	Shortage of cash	Water supply for preparative pasture	Low level of knowledge and education	Processing milk and meat by ourselves and they are self-sufficient
Annual expense: Tg. 605,000 (cash)	Livestock raw materials are cheap	Training for starting side business		
	Livestock products are cheap	Wooden materials are expensive and it is hard to buy		
	Shortage of information and mass media			
	It is hard to collaborate among herders due to low carrying capacity			

Stakeholder Analysis - Detailed Analysis (3 Days PCM Workshop in Ulaanbadrakh)

"Soum Government"

Basic Information	Problems	Needs	Strength	Weakness
Soum Governor: Angaragsuren	Small budget	Increase of budget	Lack of budget management	Soum government office is new
Officer: 16 persons	Shortage of office automation equipment	1 legal expert	A part of executive officers is not qualified	Hotel facilities are attached
Age: 22 - 57	Small/ limited income	3 PCs		Communication means between Soum and Bag are always secured
University degree: 4 persons	Installation of infrastructure is delayed	3 motorbikes as a transportation of Bag Governor		Solar electric generator (24 hours operation)
Technical college: 12 persons	Shortage of personnel	One more social worker		
Budget: Tg. 17 million		Increase of salary		

Capital: Tg. 150 million				
2 PCs				
1 UAZ-469 (Russian jeep)				

(3) Result of *Khuvsgul Soum*

Stakeholder Analysis - Group Categorization (3 Days PCM Workshop in *Khuvsgul*)

Beneficiaries	Negatively Affected Group	Decision Makers	Funding Agencies	Implementing Agencies	Community Leader	Potential Opponents	Supporters
Herders		<i>Soum</i> Government Office JICA Project	Bayarjavkhlaut Cooperatives Agricultural Bank JICA Project	Livestock breeders JICA Project Bayarjavkhlaut Cooperatives Veterinary service	Bag Governor		<ul style="list-style-type: none"> - School - Veterinary service - Hay and Fodder Fund - Meteorology Station - Cultural Center - <i>Soum</i> Communication Office - Hospital - Medical Doctor - Veterinarian - <i>Soum</i> Diesel Generator - Private Traders - Hairdressers' and bath - GTZ project for supporting private livestock sector

Stakeholder Analysis - Detailed Analysis (3 Days PCM Workshop in *Khuvsgul*)

"Bayarjavkhlaut Cooperatives"

Basic Information	Problems	Needs	Strength	Weakness
Established in 1998	Shortage of capital and cash	Professional staff	Many supporters	Poor management initiatives
250 members	Lack of professional staff	Concessionary loan and assistance	No competitor	Lack of members' confidence
Director/ President is G. Zayasaikhan	Lack of credit assistance		Close to market	Members are isolated
Tg 150 million funding capital/ assets	Poor infrastructure			Poor cooperation among <i>Soum</i> organizations
8 staff				Poor control on members
Animal husbandry				
Trade and service				
Tg 8 million working capital				

Stakeholder Analysis - Detailed Analysis (3 Days PCM Workshop in Khuvsgul)

"Herders"

Basic Information	Problems	Needs	Strength	Weakness
267 herding households	Increase of livestock theft	Increase of veterinary service	Utilization of pasture in free of charge	Poor infrastructure
No. of livestock = 46,700	Dzud	Shopping facilities in <i>Soum</i> Center		Animal crossed the border
Average herding size/ household is 150	Draught	Concessionary loan for herders		Theft animals left not found
Average monthly income: Tg 4,000	Lack of credit			
"Bayarjavkhlaui Cooperatives" members are 250 persons	Poor water supply			
	Pasture shortage			
	Herders are isolated/ located in remote areas			
	Lack of cash in herders' hands			
	Animals crossed the border are not returned/ found			

Stakeholder Analysis - Detailed Analysis (3 Days PCM Workshop in Khuvsgul)

"Soum Government"

Basic Information	Problems	Needs	Strength	Weakness
<i>Soum</i> Governor - Borkhun	Shortage of budget	To get connected to central electricity supply network	Sufficient professional staff	Lack of initiatives and responsibility
16 staff (including 4 Bag Governor)	Shortage of car	More budget/ fund		Staff doesn't pay attention to social issues
4 Bags	Insufficient electricity supply			
4 Bags (1st. Jovkhlaui, 2nd. Chuluut, 3rd. Elstei, 4th. Gulvan Hovsgol)				
1 car				

F. 5.3 Summary and Results of Submitted Proposals (1/3)
Erdene Soum

ID	Code #	Type of Proposal	Location	Object	Problem	Results of Evaluation
Er-1	Bold-1	Traditional Well Rehabilitation	2nd Bag (Tsagaan), Nuraach Hudag, km from Bagecenter		water provide, Reduce high concentration	Suspend
Er-2	Bold-2	New Production Well Construction	3rd Bag (Dorvolj), Ulaan Toirom 16km east from Soum Centre	Better use of Carrying Capacity, Improve drinking		Suspend
Er-3	Bold-3	New Production Well Construction	3rd Bag (Dorvolj), "Zamyn Dolood", 25km N-E from soum Center		Decline of Yield Water	Refused Shift to Traditional well construction campane
Er-4	Bold-4	Traditional Well Rehabilitation	5th Bag (Yenshuv) "Ulaan Khoovor", 15km S form Bag	To slove poor financial		Refused
Er-5	Bold-5	Rehabilitation of Production Well	2nd Bag (Tsagaan), "Buhel", 1.5km N from Bagcenter		Broken Production well	Adopted, Rehabilitation Project "Buhel-2"
Er-6	Bold-6	3 Wells Rehabilitation	4th Bag (Burdene) "Dohmiin Ulaan Tolgoin US", "Hashaatyn hudag", "Argashuuy us"	Improve water supply and increase of livestock		Refused
Er-7	Bayar-1	Traditional Well Rehabilitation	5th Bag (Yenshuv), Khar Ovoo	To eliminate a shortage of water	Shortage of water	Refused
Er-8	Bayar-2	New Production Well Construction	3rd Bag (Dorvolj), Modon	Increase of Carrying Capacity	Insufficient Pasture water	Adopted, New Well Construction "Tsani"
Er-9	M-1	Traditional Well Rehabilitation	5th Bag (Yenshuv)	Rehabilitation of well		Refused
Er-10	M-2	Rehabilitation of Production Well	5th Bag (Yenshuv) (Tesgenii Khandii)	Rehabilitation of well	No Drinking Waer	Suspend
Er-11	M-3	Traditinal (Shaft) Well Rehabilitation for cattle washing(dipping?)	4th Bag (Burdene), Bag Center	Security of water to wash Livestock	To secure the water for livestock Washing	Suspend
Er-12	M-4	Well Rehabilitation	4th Bag (Burdene)	To water supply for pasture	No techniques for well cleanings	Refused
Er-13	M-5	Traditinal Well Rehabilitation	4th Bag (Burdene), Hasaatiin	To improve of water supply		Refused
Er-14	C-1		5th Bag (Yenshuv) "Tsokhion"	to improve of water supply	Shortage of water	Refused
Er-15	C-2	Traditional Well Rehabilitation	3rd Bag (Dorvolj)	To improve of water supply	Shortage of water	Suspend
Er-16	C-3	Well Rehabilitation	3rd Bag (Dorvolj), Modon	To improve of water supply	Shortage of water	Refused
Er-17	Soum-1	New Production Well Construction	4th Bag (Burdene)	To Improve of water supply	Shortage of water	Adopted, New Well Construction "Ulziit"(Burdene)
Er-18	Soum-2	Rehabilitation of Production Well	Uzuuriin bor khushuu			Refused due to Opennig of casing top
Er-19	Soum-3	Rehabilitation of Production Well	Tesgen			
Er-20	Soum-4	Rehabilitation of Production Well	Zuun khur			Rehabilitation Test was required. (Adopted finaly)
Er-21	Soum-5	Rehabilitation of Production Well	Butiin Khooloi			Rehabilitation Test was required. (Adopted finaly)
Er-22	Soum-6	KSHK Well Rehabilitation	Durvulji			Adopted, Rehabilitation Project "Durvulji"
Er-23	Soum-7	KSHK Well Rehabilitation	Khedermeg			
Er-24	Soum-8	Improvement of Goat milk production	Burdene Bag	To construct breeding place of goat and its milk product	lack of skills, lack of time and budget to obtain sufficient results	
Er-25	Soum-9	To construct a small wool washing factory	Tsagan Hool	To manage small wool washing factory	Lack of facilities and finances	
Er-26	Soum-10	To construct oppotunities to make new job for animalless herders	Soum Center	To make new job oppotinity for animalless herder	Lack of facilities and finances	
Er-27	Soum-11	To provide livestock for aimalless herders	Soum Center	To provide livesock for animalless herder due to Dzud	Lack of financial source	

F. 5.3 Summary and Results of Submitted Proposals (2/3)
Ulaanbadrath Soum

ID	Code #	Type of Proposal	Location	Object	Problem	Results of Evaluation
U-1	Bold-1	Rehabilitation of KSHK well (1620) 10m W.L. 14m Well Depth?	"Ulaan-Ereg" well Bayanbogd Bag Well No.1620	water supply to be used 50 ha of reserve pasture	no well equipment, Decline of water, hand watering by hand from 10m depth	suspend
U-2	Bold-2	To Construction of barrier To be installed pump	Rashaant, Nuden Bag "Soum Centre"	Water supply for soum centre for livestock and drinking water	Well damaged by Flood, Lack of water in soum center	suspend
U-3	Bold-3	Training of Cultivation	"Tsaidam" Bayanbogd Bag Well No. 5154	To Cultivation of potatoes and other veg.	Shortage of funds and equipments	suspend
U-4	Bold-4	New Production well construction 1 km to NE of Soum Centre	"Nuden" A3848 Nuden Bag "Soum Centre"	Improve pasture resource utilization, and drinking water	Shortage of drinking water, pasture	suspend
U-5	Bold-5	Rehabilitation of KSHK Well "Khooolim Khond" C 1354 Depth 7m (10.5m) W.L. 5m (3.5m)	Sangiin Dalai Valley in Sangiin Dalai Bag	Good and water and pasture carrying capacity	Shortage of labour watering for animal due to its not enough grazing	Adopted, Rehabilitation Project "Khooolim Khond"
U-6	Bold-6	Rehabilitation of KSHK Well "Zurkhiin" C Depth m W.L. m	"Zurkhiin" Sangiin Dalai Bag	Improve of water supply during winter and spring	Shortage of funds, necessity of pump installation	Adopted, Rehabilitation Project "Zurkhiin"
U-7	M-1	Rehabilitation of Livestock disinfect pool	"Nuden" Sangiin Dalai Bag	improve of livestock health	difficult to maintain livestock health	suspend
U-8	M-2	Felt making	Argalant Bag	Felt making for Gel cover	Lack of Generator, felting machine	suspend
U-9	M-3	To install the necessity facilities to make the livestock products	Soum Centre	To make the livestock products	Low price of livestock products	suspend
U-10	M-4	Interest-free loan to strengthen of cooperative activities	Soum Centre	Construction of whole sales service network	Lack of finance, Expensive fuel cost	suspend
U-11	M-5	Interest-free loan to construction of Brick Factory	Nuden	To provide the cheap building material	Lack of revolving fund	suspend
U-12	M-6	Vegetable Growing	"Khukh am" well Argalant Bag A-3180 W.L. 14.2m D.L. 40.2m 3.25 l/s	To supply potato and vegetables in convenience price	Cultivation Field is not sufficient,	suspend
U-13	CH-1	New construction of Well (KSHK or Production)	Uvgun Mod 3 rd Bag	Water supply	Shortage of Water, Low carrying capacity	Adopted, New Well Construction "Hobgun Modoc"
U-14	CH-2	Rehabilitation of Production well	Taliin Boats	To use unused pasture, To cultivate the feed and vegetable	no well equipment,	Adopted, Rehabilitation projects "Taliin Boats"
U-15	CH-3	New Construction of Well "Tashaa"	Bayanbodg Bag	construction of well	No equipment to dug the traditional well	suspend
U-16	CH-4	Production of small livestock products	Nuden Bag "Soum Centre"	To make small scale wool and camel hair products	Lack of wool market	suspend
U-17	M-6'	Rehabilitation of production well	"Khukh am" well Argalant Bag A-3180 W.L. 14.2m D.L. 40.2m 3.25 l/s	To supply water for pasture	Install of submerge pump	Adopted, Rehabilitation projects "Khukh Am"
U-18	Soum-1	Rehabilitation of Production well	"Tsaidam" Bayanbogd Bag Well No. 5154	To supply water for pasture	Lack of finance for well rehabilitation	Adopted, Rehabilitation projects "Tsaidam"
U-19	Soum-2	Rehabilitation of Production well	"Shuvuun" 18km SW far from soum centre	To improve living standard of herder		Adopted, Rehabilitation projects "Shuvuun"
U-20	Soum-3	Construction of culture centre for herder	Argalant Bag	To construct a culture center	Lack of finance 2 million tg	
U-21	Soum-4	Establishment of fund for "peoples's development"	Soum	to support small project for mitigate want	To establish the fund by Long period loan or no- interest loan produced by JICA	
U-22	Soum-5	Strengthen of education for pre- school herder's children	Soum	To improve knowledge of children form 3-8 years old	lack of finance for purchasing of material, classroom, salary etc.	
U-23	Soum-6	Improve of school dormitory	Soum	To improve environment of primary education	lack of finance for repair dormitory	

F.5.3 Summary and Results of Submitted Proposals (3/3)

Khuvsgul Soum

ID	Code #	Type of Proposal	Location	Object	Problem	Results of Evaluation
K-1	Bold-1	Rehabilitation of Well Shaft Well : Depth 13m, Water Level 6.5m	1st Bag Javhlant "Ulaankutag" Well 47km from Soum	Water supply to unused pasture	water quantities in traditional well are not sufficient	Suspended
K-2	Bold-2	New Well Development	1st Bag Javhlant "Yast" Well 17km N of Soum Centre	Water supply to pasture, Unused Pasture Improve of herder's living standard	-Lack of Finance for development -Lack of Expert assistance	Adopted, PO was carried out Phase-III candidate
K-3	Bold-3	Development of hides and skins processing	1st Bag Javhlant	Increase price of hides and skins Increase herder's living standards Create employment opportunity	Lack of hides and skin processing equipments, electricity supply, facility, working capital, transport	Suspend for next phase
K-5	M-1	Rehabilitation of Well Production Well Depth 120m, W.L 15m	2nd Bag Chuluut "Kharsiin" Well (1688)	water supply for unused pasture	Lack of finance Lack of usable pasture	
K-6	M-2	Rehabilitation of well Shaft Well	1st Bag(?) "Chandmani" Well	To increase of usable pasture, rehabilitation of well	Lack of manpower, material, finance	Refused Impossible to rehabilitate KSHK Pump
K-7	M-3	Development of marketing of wool products	4th Bag	To increase income and improve living standard To improve the quality		Suspended
K-8	C-1	Rehabilitation of Well Traditional well (D-909): 2m Depth	3rd Bag Elstei "Sain Togrogina" well		Difficulty of casing by themselves	Refused
K-9	C-2	Supply of Traditional Wear for soum	4th Bag		Lack of equipment, generator, working place, finance	Refused
K-10	Soum-1	Rehabilitation of Production well	1st Bag Javhlant "taliin dov"	Rehabilitation of well	Shortage of water	Adopted, Rehabilitation Test "Taliin Dov"
K-11	Soum-2	Rehabilitation of Production well	1st Bag Javhlant "shuvuun toiron"	improve of water supply in pasture	Lack of water supply	Adopted, Rehabilitatio Test "Shuvuun toiron"
K-12	Soum-3	Rehabilitatio of Production well	1st Bag Javhlant "Tsagaan Ereg"			
K-13	Soum-4	Rehabilitatio of Production well	1st Bag Javhlant "Goviin bor us"			
K-14	Soum-5	Construction of New Production well	1st Bag Javhlant "Eliin Ovoo"			
K-15	Soum-6	Rehabilitation of Production well	1st Bag Javhlant "Tataalin Gol"	Secure of water supply	Lack of water supply	Adopted, Rehabilitation Test "Tataalin Gol"

F.5.4 PO (PLAN OF OPERATION)

Plan of Operation for "Sufficient Pasture Water Supply Buhel 2003" Project in Erdene Soum (Sep. 7, 03)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
1-1 To determine the rules of operation and maintenance								
1-1-1 Group members meeting	Rules for well O and M are made	Documentation of rule	12:00-17:00, 20 Sept., 2003	Group leader	All group members	₮ X	Group members	
1-1-2 To election of person in charge of well O and M	Appointment of elected person (O and M)	Ts. Tserendolgor, Ts. Tsogbadrakh	14:00, 14 Sept., 2003	Group leader	Group members		Allocation of O and M costs	
1-1-3 To establish the fund among group members /for well O and M/	Well O and M fund established	Signature of group members	20 Sept., 2003	Group leader	Group members		Ways of collecting O and M costs	Considering everyone's opinions
1-2 To establish rules for well utilization	To conduct all members meeting		20 Sept., 2003	Group leader	Group members	₮ X	Person in charge of O and M fees	
1-3 To conduct the training on operation and maintenance of the well							Order of members utilization	
1-3-1 To train two persons	2 qualified persons are available	Ts. Tserendolgor, Ts. Tsogbadrakh	Around 15 Oct., 2003	JICA	JICA Study Team, members	₮ X	Fees for temporary user	
1-4 To monitor O & M of the well							Fees for emergency user	
1-4-1 To monitor on the generator and pump operations	To maintain normal operation	Maintaining with no breakages	Oct., 2003 to Dec., 2004 and further	Group members	JICA Study Team, members	₮ X	JICA	
						Once in a month ₮ 2,000	Well fund	
1-4-2 To monitor on fund disbursement	Efficient utilization of the well fund	No violation of financial issues	During the project period and further	Group members	Controller of group leader	Fuel and documents	Well fund	
2-1 To identify/ make sure the location of the rehabilitating well	Selection of exact location of the well	5 km from pasture	Before the end of Sept., 2003	Herders group, JICA team	Group members, Study Team	₮ X	JICA team	
2-2 To conduct survey on the pasture condition	Operational well with plentiful water	To meet the needs for watering 8000 animals and 15 households	Sept-Oct., 2003	JICA	Expert water development institution	₮ X	JICA	Dual energy source (generator and electricity)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
2-2-1 To connect with the electricity line	The well connected to the electricity line	220v electric line is put up in 1.5km range	Sept.-Oct., 2003	JICA	Herders group	₹ X	JICA	Poles are ready
2-2-2 To conduct the other activities (rehabilitation)	Full rehabilitation of the well		Sept.-Oct., 2003	JICA	Expert organization	₹ X	JICA	
2-2-3 To receive the well	Quality test control and reception	Be fully operational	Sept.-Oct., 2003	Chuluunbaatar, herdere group leader	Group member, Tserendorj, Tsogbadrakh	₹ 50,000	Herdere group	Quality
2-3 To construct a new trough	Well with trough	Strong, 500 l water capacity	Sept.-Oct., 2003	Herdere group	Expert organization	₹ 250,000	Herdere group	
2-4 To make the contract on possession of the well among Soum governor, herdere group and the Study Team	To have water reserve	Not less than 5.0 m3 capacity	Sept.-Oct., 2003	(Suspended) JICA	Expert water development institution	₹ X	(Suspended) JICA	
2-5 To construct a pumping house and fence	Protection of the well	Fence 32 m, roofing 20m2	Sept.-Oct., 2003	Herdere group	Herdere group	₹ 100,000 for fencing and ₹ 100,000	Herdere group 100%	
2-6 To make the contract on possession of the well among Soum governor, herdere group and the Study Team	To provide/establish conditions for well operation	Contract	Oct., 2003	Soum governor, herdere group, JICA Study Team	Gipelmaa, Chuluunbaatar, JICA Study Team			
2-6-1 To conduct the actions to implement contract	Normal operation of the well	Lack of breakages and other violations	Oct., 2003 to Dec., 2004 and further	Herdere group	Chuluunbaatar, Tserendorj, Tsogbadrakh			
3-1 To conduct the training of pasture management importance	Scheduled pasture utilization knowledge is transferred to herdere	1 person from each household is trained	Oct., 2003	Study Team	JICA pasture expert			
3-2 To determine the rules of pasture utilization	Pasture is protected from degradation	Pasture utilization rule is established	Oct., 2003	Group leader	Group member	₹ X	The group is responsible for housing and food	
3-3 To monitor pasture management	Efficient utilization of pasture	Monitoring over 300 km2 pasture	Regular monitoring	Group leader	Group member, herdere	₹ 50,000	Group member	To follow the rules

Plan of Operation for "Dorvolj" Well Rehabilitation Project in Erdene Soum (29 Sep., 2003)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
1-1 To determine the rules of operation and maintenance								
1-1-1 To organize herders group meeting	Herders reach agreement	Meeting protocol/approved rules	01 Oct., 2003	L. Gavuu	All members	₮ 0		Full participation of members
1-1-2 To elect persons in charge of well	Well will be looked after	P. Tsengelbaatar G. Erdenebavar	29 Sept., 2003	Herders group	Herders group	₮ 0		
1-1-3 To establish the well fund	Availability of the well fund	Herder's contribution	01 Oct., 2003	L. Gavuu	Herders group	₮ 0		
1-1-4 To elect well fund manager	Fund manager is available	Sugar	29 Sept., 2003	Herders group	Herders group	₮ 0		
1-1-5 To establish the rules for well utilization, O and M	Availability of well utilization, O and M rules	Decision to be made at all member meeting	01 Oct., 2003	Gavuu	All members	₮ 10,000	All members of herder group	
1-1-6 To determine ways of collecting fees for O and M								
1-2 To establish rules for well utilization								
1-2-1 To make the schedule for group members watering of animals	Availability of the schedule	Writtend and printed schedule for watering of animals (5 units)	01 Oct., 2003	L. Gavuu	All members	₮ 4,000	Herder group	
1-2-2 To establish the rules for well utilization fees collection for non-members								
1-2-3 To establish the rules for well utilization fees collection in emergency cases								
1-3 To conduct the training on operation and maintenance of the well	The knowledge on well utilization, O and M are obtained	Report	Prior to well operation	JICA	Well expert	₮-X	JICA	

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
1-4 To monitor O & M of the well	Efficient utilization of the well	Monitoring report	Dates determined by monitoring bodies	Study Team, Soum government, herder group	Officer from soum government, study team expert, Gavuu	₮-X	Study Team, Soum government, herder group	
Monitoring by herder group	Efficient utilization of the well	Monitoring notes	Every week since the utilization of	herder group	Gavuu	₮-X	herder group	
2-1 To identify/ make sure the location of the rehabilitating well	Location of the well in a desired place	Dorvolj	Sept., 2003	JICA, herder group	JICA Study Team, Group leader Gavuu	₮-X	JICA	
2-2 To conduct survey on the pasture	Efficient use of pasture	Survey report, recommendations	Sept.-Oct., 2003	JICA	JICA Study Team	₮-X	JICA	
2-3 To rehabilitate the well	Availability of a good well	Mechanic operation	Oct., 2003	JICA	Expert organization	₮-X	JICA	High water yield of the well
2-3-1 To accept/receive the well	To determine the quality	Protocol of accepting	Oct., 2003	herder group	L. Gavuu, P. Tsengelbaatar, G. Erdenebavar	₮ 10000	Herders group	
2-4 To make the contract on possession of the well among Soum governor, herder group and the Study Team	Efficient utilization of well	The contract	Oct., 2003	Soum governor, herder group, JICA	Gipelmaa, Gavuu, Study Team			
2-5 To rehabilitate an old water trough	Availability of water trough on the well	Good quality, suitable for use	Oct., 2003	Herder group leader Gavuu	Group members	₮ 10,000	Herder group	
2-6 To rehabilitate a well top	Protection of the well	Concrete with good quality	Oct., 2003	JICA	Expert organization, herder group	₮ 300,000	JICA (suspended)	
3-1 To conduct the training of pasture management importance	The knowledge on pasture issues is obtained	Training report, recommendations	Dec., 2003	JICA	JICA Study Team	₮-X	JICA	All members participation
3-2 To determine the rules of pasture utilization	Efficient utilization of the pasture	Schedule printed	Dec., 2003	Herder group	Herder group members			No conflict on pasture issues
3-3 To monitor pasture management	Implementation of the pasture utilization rules	Monitoring report, recommendations	Oct. 2003 to Dec. 2004 and further	Soum government, herder group, JICA	Dondog, group members, Study Team	₮-X	Individual monitoring bodies	

PO for "Ulziit" Pasture and Drinking Water Supply Project (24 Sept., 2003)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
1-1 To determine the rules of operation and maintenance								
1-1-1 Organize group members	Detailed discussion of activities of the group	2 rules will be approved	28 Sept., 2003	Sembe	All members			Full attendance of members
1-1-2 Appoint a person for well O and M	Well will be looked after	1. Lhagvasuren, 2. Myagmarsuren						
1-1-3 To establish the well fund	Accumulation of well O and M capital	Number of animals and amount of money contributed by members						
1-1-4 Election of fund manager	Person responsible for fund is known	1. Byamba, 2. Tsendmaa						
1-2 To determine the rules of well utilization								
1-2-1 To establish the order of well utilization by members	To establish animal watering orders	Printed schedule	After well construction	Members	Sembe	Printing and paper costs	Well fund	
1-2-2 Fees for non-member herders	Preventing inefficient cost	Amount of fee	After the water yield is determined	Members meeting	1. Byamba, 2. Tsendmaa		JICA	
1-2-3 Fees for emergency use	Concessional fee to cover operation cost	Level of concession fee	After the fee is determined	Members meeting	1. Byamba, 2. Tsendmaa		JICA	
1-3 To conduct the training on operation and maintenance of the well	Members obtain knowledge on well utilization	Training report and recommendations	Before the well utilization	Herders group, JICA	JICA Study Team, herders group, Myagmarsuren, Lhagvasuren	¥ X-	Herders group	
1-4 To monitor O & M of the well	To provide normal operation of well	Monitoring report, recommendations	During the project and further	JICA, herders group, Soum governor and office	JICA Study Team, group leader, monitoring unit members, responsible officers	¥ X-	Soum governors office	

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
2-1 To conduct geophysical survey	To identify water point	Protection from flooding and sand movement	Oct., 2003	JICA	Study Team	¥ X-	JICA	To determine the desired location
2-2 To survey pasture condition	To determine pasture resources	Variety of plants and their growth are investigated	July-Oct., 2003	JICA	Study Team	¥ X-	JICA	
2-3 To make the final decision on new well location through discussion with all group members	To determine the location of the well to be constructed	Considering herders request	Oct.-Nov., 2003	Study Team	Study Team, herders		JICA, Soum governors office, herders group	Easy to access
2-4 To construct a new well	To improve water supply	To have sufficient water yield	Oct., 2003	JICA	Well development company	¥ X-	JICA	Depth
2-5 To make the contract on possession of the well among Soum governor, herders' group and the Study Team	To improve well utilization and protection	Ownership is known	Oct., 2003	Study Team	Study Team, Soum governor, herders group			Duties are specified clearly
2-6 To construct a water trough	Watering of animal	Size 4x0.5x0.5 m	Oct., 2003	T. Sembe	Group Members	¥ 200,000	Group members	Quality
2-7 To build pumping house and fence for the well	To reduce well breakage	Size 2x1.5x2.5 m-wood and rocks	Nov.-Dec., 2003	Group leader	Group Members	¥ 500,000	Soum governors office	To be strong
3-1 To conduct the training of pasture management importance	Herders obtain pasture utilization knowledge	1 person from each household to be trained	Oct., 2003	Study Team	Study Team expert	Training facility, food, fuel and water costs will be paid by group	Study Team, herders group	All required people need to be attended
3-2 To determine the rules of pasture utilization	Scheduled use of pasture	Rules are printed	After the training in Oct., 2003	Group leader and deputy	Group Members	¥ 25,000	Group members	Detailed pasture survey
3-3 To monitor pasture management	Pasture protection	200 m ² pasture-10x20 km	All the year round	Group leader and deputy	Group Members	¥ X-	Group members	Pasture is protected

Plan of Operation for "Zuun Khur" Well Rehabilitation Project in Erdene Soum (April 31, 2004)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
I-1 To determine the rules of operation and maintenance								
I-1-1 To organize herders group meeting	Herders reach agreement and make decisions	Meeting protocol/approved rules	05 April., 2004	D.Baasan	All members	T 0		Full participation of members
I-1-2 To elect persons in charge of well O&M	Well will be responded	D.Batkhuurel, S.Altan-Ochir	31 March., 2004	D.Baasan		T 0		
I-1-3 To establish the well operational fund	Availability of the well fund	Decision of the well fund establishing and herders' contribution	05 April., 2004	D.Baasan	Herders group	T 0		
I-1-4 To elect well fund manager	Fund manager is available	D.Baasan	31 March., 2004	Herders group	Herders group	T 0		
I-1-5 To establish the rules for well utilization, O and M			05 Apr., 2004					Full participation of members
I-1-6 To determine ways of collecting fees from herders for O and M			05 Apr., 2004					Full participation of members
I-2 To establish rules for well utilization			05 Apr., 2004					
I-2-1 To make the schedule for group members watering of animals	Availability of the schedule of animal watering	Written and printed schedule for watering of animals (5 units)	05 Apr., 2004	D.Baasan	All members			
I-2-2 To establish the rules for well utilization fees collection for non-members	Financial situation of the fund will be improved	Will be made watering price (by per head) based on the market price						
I-2-3 To establish the rules for well utilization fees collection in emergency cases	Will made negotiations between herders and soum governor							
I-3 To conduct the training on O&M of the well	The knowledge on well utilization, O and M are obtained	Report of training and number of people attended	Before the well operation	JICA	Well expert	T-X	JICA	
I-4 To monitor O & M of the well	Proper utilization of the well	Monitoring report	Dates determined by monitoring bodies and herders group monitor once every	Soum government, herders group and JICA	N. Gepilmaa, study team and D.Baasan	T-X	Soum government, herders group and JICA	
2-1 To identify the location of rehabilitating well	Available possibilities on proper utilization of the pasture	Zuun khur	March-April., 2004	JICA, herders group	JICA Study Team, Group leader D. Baasan	T-X	JICA	
2-2 To conduct survey on the pasture condition	To determine the pasture resource and its condition	Survey report, recommendations	April., 2004	JICA and soum government	JICA	T-X	JICA	

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
2-3 To make an agreement on the well possession between soum government, herders group and JICA study team	Available legal condition on the well possession	Three bodies agreement	31 March., 2004	Soum government, herders group and JICA	N. Gepilmaa, JICA study team and D.Baasan			
2-4 To rehabilitate the well	Available a well with normal operation	6000 animals can be watered	April-June., 2004	JICA and herders group	Expert organization	T-X	JICA and herders group	Receiving of well controlled by herders group
2-5 To collect a part of cost of the well rehabilitation	Payment will be collected in the soum well fund	Initial cost ₮150000 will be paid	April., 2004	herders group	D.Baasan			T1,500,000 must paid into soum well fund within 5 year
2-6 To install a pump, a generator and other equipments	Well can be operated normally	The well will be received with approved document of normal operation, made by expert organisation	May., 2004	herders group, JICA study team	Expert organization	T-X	JICA and herders group	The well must be received with normal operation
2-7 To build new water trough	Availability of animal watering and new water trough	Good quality, suitable for use	May., 2004	herders group leader D.Baasan	Group members	T- 200,000	herders group	Good quality
2-8 To build pumping house or protection fence	Well can be protected	Good quality	June., 2004	herders group leader D.Baasan	Group members	T-100,000	herders group	
3-1 To conduct the training of pasture management	The knowledge on pasture issues is obtained	Training report, recommendations	April-June., 2004	JICA study team	JICA Pasture expert	T-X	JICA	Full member of participation
3-2 To determine the rules of pasture utilization	Proper utilization of the pasture	Pasture utilization of schedule printed	June-Aug., 2004	herders group leader D.Baasan	herders group members			
3-3 To monitor pasture management	To lead herders' for proper utilization of pasture rules	Monitoring report, recommendations	June., 2004 and further	Soum government, herders group and JICA	N. Gepilmaa, JICA study team and D.Baasan	T-X	Soum government, herders group and JICA	Herders group must follow the rules

Plan of Operation for "Tsant" Pasture Water Supply Project in Erdene Soum (24 Sept., 2003)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
1-1 To determine the rules of operation and Organize all members meeting	Following issues will be discussed and decisions made	Decision of the meeting and the document	05 Oct., 2003	Group leader	Group members	₮ 0		All members attend
1-1-1 Election of person in charge of well O and M	Operators are introduced to other group members	Batmunkh, Chuluunbaatar	24 Sept., 2003	Group members	Group members	₮ 0		
1-1-2 Establish well fund /W/F/	Capital accumulation for well O and M	Herder's donation/contribution	7 days since the time of well operation	Batzorig	Group members	₮ X-	Herders group	Number of animals
1-1-3 Appointment of WF manager	Person in charge of well fund	Dorjulam	24 Sept., 2003	Group members	Group members	₮ 0		
1-1-4 Recording of daily activities	Detailed introduction/reporting of activities	Record keeping book	Since the time of well operation	Group leader	Batmunkh, Chuluunbaatar	₮ 1,000 for notebooks and ballpoint pens	Herders group	
1-2 To establish rules for well utilization	Well utilization rules are available	Document approving the rule	3/7899	Group members	Batzorig	₮ 8,000	Herders group	
1-2-1 Establish orders for watering animals	Herders will know order of watering animals	Printed schedule for orders of herders	Before the operation of well	Group members	Group members	₮ 3,500	Herders group	
1-2-2 Establish rules for well O and M	To be decided on all member meeting. 05 Oct., 2003							
1-2-3 Establish fees for non-member herders	To be decided on all member meeting. 05 Oct., 2003							
1-2-4 Establish fees for emergency use	To be decided on all member meeting. 05 Oct., 2003							
1-2-5 Well protection actions during unused period	To be decided on all member meeting. 05 Oct., 2003							
1-3 To conduct the training on operation and maintenance of the well	To obtain the knowledge on well O and M	Batmunkh, Vhuluunbaatar	Before the operation of well	JICA	Well expert	₮ X-	JICA	
1-4 To monitor O & M of the well	To maintain regular/normal operation	Number of conducted monitoring	Since the time of well operation	JICA, Soum government, herders group	JICA, Agriculture officer, group leader	₮ X-	Soum Government, herders group	
1-4-1 Monitoring on well generator and pump	Normal/efficient operation of generator and	Utilization record keeping notebook	Daily	Batmunkh, Chuluunbaatar	Batmunkh, Chuluunbaatar	₮ 0		
1-4-2 Monitoring by group leader	Enforcing of the rules	Monitoring report	Every 3 months since operation of well	Batzorig	Batzorig	Transportation cost	Herders group	

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
2-1 To conduct geographical survey	To determine the point with water reserving	Near the "Khar Tolgoi"	Sept., 2003	JICA	Expert organization	₮ X-	JICA	Capacity to pump 70 t of water a day
2-2 To conduct survey on the pasture condition	To determine pasture capacity/resource	Survey report and recommendations	Sept., 2003	JICA	JICA Study Team	₮ X-	JICA	
2-3 To make a final decision on a new well location through discussion with all group members	To determine the well location suited to needs of herders	Near the "Khar Tolgoi"	By 10 Oct., 2003	JICA, herders group	JICA Study Team, herders group, Batzorig	₮ X-	Herders group, JICA	
2-4 To construct a new well	Production well is available	Good quality of well with high water yield and a larger tanker	Within 2003	JICA	Expert organization	₮ X-	JICA	
2-4-1 Accept well for regular operations	Well quality is tested	Protocol of acceptance	After the well testing	Herders group, Batzorig	Herders, Batmunkh, Chuluunbaatar	₮ 25,000	Herders group	
2-5 To make the contract on possession of the well among Soum governor, herders group and the Study Team	To provide conditions for regular operation of wells	Contract	After the new well is accepted	Soum Governor, herders group, JICA	N. Gipilmaa, Batzorig, JICA Study Team			
2-5-1 Implementation of the contract	Maintaining regular operation of well	No violation of contract/number of violations	Dec., 2004 and further	Group members	Herders group, Batzorig, Batmunkh, Chuluunbaatar			
2-6 To construct a new trough	Trough for animal watering	Capacity of trough 500 l	Within 2003	Group members	Herders group, Batzorig	₮ 300,000	Herders group	
2-7 To construct a pumping house and fence for the well	Protection of the well	Fence length 20 m, house size 9 m ²	Within 2003	Group members	Herders group	₮ 1,200,000	Herders group	
3. Establish systems for pasture management								
3-1 To conduct the training of pasture management importance	Herders obtain knowledge on pasture management	Training report and recommendations	Oct., 2003	JICA, herders group	JICA pasture expert	₮ X-	JICA	Full attendance of herders
3-2 To determine the rules of pasture utilization	To improve pasture utilization efficiency	Herders rules	After the training with JICA pasture expert	Group leader	Group members			Members follow the rules and there is no conflict for the pasture
3-3 To monitor pasture management	Monitoring the efficiency of pasture utilization	Monitoring report and recommendations	Dec., 2004 and further	JICA, herders group, Soum Government	JICA Study Team, group leader and members and Soum Government	₮ X-	Own responsibility	Members implement recommendations

Plan of Operation for "Burtiin Khooloi" Well Rehabilitation Project in Erdene Soum (31 March., 2004)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be
1-1 To determine the rules of well operation and maintenance								
1-1-1 To organize herders group meeting	Herders reach an agreement and decision	Meeting protocol/approved rules	01 April., 2004	Group leader E.Oyunbat	All members	T 0		Full participation of members
1-1-2 To elect persons in charge of well O&M	Well will be responded	B.Bajargal	31 March., 2004	All members	All members	T 0		
1-1-3 To establish a fund for the well maintenance	Well fund for well normal operation	Herders' contribution and decision of well fund establishment	01 April., 2004	Group leader E.Oyunbat	All members	T 0		
1-1-4 To elect well fund manager	Well fund can be responded	E.Baudulam	01 April., 2004	All members	All members	T 0		
1-1-5 To establish the rules for well utilization, O and M	Available rules on well utilization, O and M	Documents of well utilization rules	Before of the well operation	Group leader E.Oyunbat	All members	T1500	All members of herders group	
1-1-6 To collect fees from member households for well O and M	Fund established for well normal operation	Organize all members' meeting to decide ways of money collection and total amount of money						
1-2 To establish rules for well utilization								
1-2-1 To make a animal watering schedule for herders group members	Availability of the animal watering schedule for herders	Written and printed schedule for animal watering (5 units)	15 May., 2004	All members	All members	T1500	herders group	
1-2-2 To establish the rules for well utilization fees	Well fund can be increased among to the rule of collection money from non-members							
1-2-3 To establish the rules for well utilization fees	The rule will be made by some members of herders group, soum government and other related bodies							
1-3 To conduct the training on operation and maintenance of the well	The motor operator can obtain knowledge about well normal operating	Report and training programme	Before of the well operation	JICA well expert	Well expert	T-X	JICA	
1-4 To monitor O & M of the well								
1-4-1 Monitoring by herders group	Proper utilization of the well	Monitoring notes	Once every month after the well operated	Group leader E.Oyunbat	Group leader E.Oyunbat	T3000	herders group	
1-4-2 Monitoring by soum government and study team	Proper utilization of the well	Monitoring notes	Will be decided when monitoring needs	JICA and soum government	Soum government	T-X	JICA and soum government	

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be
2-1 To identify location of the rehabilitating well	Location of the well in a desired place	Butin khooloi	March-Apr., 2004	JICA, herders group	JICA, herders group	T-X	JICA	
2-2 To conduct survey on the pasture condition	Proper utilization of pasture	Survey report, recommendations	March-Apr., 2004	JICA	JICA, herders group	T-X	JICA	
2-3 To make an agreement on the well possession between soum government, herders group and JICA study team	Availability of legal utilization of well	An agreement	31 March., 2004	JICA, herders group and soum government	JICA, herders group leader E.Oyunbat and soum government	T-X		
2-4 To rehabilitate a well	Availability of normal operated well	10000 animals can be watered	May-June., 2004	JICA	Well expert organization	T-X	JICA and herders group	Herders group put attention on the well receiving progress
2-5 To collect some part of cost of well rehabilitation	Payment will be collected in the soum well fund	Initial cost T150000 will be paid	April., 2004	herders group	herders group leader E.Oyunbat			T1,500,000 must be paid into soum well fund within 5 year
2-6 To install pump, generator and other equipments	Well can be operated normally	The well with normal operation	May-June., 2004	JICA	Well expert organization	T-X	JICA and herders group	Herders group put attention on the well rehabilitation
2-7 To rehabilitate an old water trough	Availability of water trough	Good quality, suitable for use	May., 2004	Group leader E.Oyunbat	Group members	T50,000	herders group	Protect the rehabilitated water trough in future
2-8 To construct pumping house or protection fence	Protection of the well	Well fence or house with good quality	May-June., 2004	herders group and soum fund	Expert organization, herders group	T-X	herders group and soum fund	Protect the fence or house from out influence
3-1 To conduct the training of pasture management importance	The knowledge on pasture issues is obtained	Training report, recommendations	Apr-June., 2004	JICA and herders group	JICA Study Team and expert	T-X	JICA	All members participation
3-2 To determine the rules of pasture utilization	Proper utilization of the pasture	The rules printed	Apr-June., 2004	herders group	herders group leader E.Oyunbat			The members must follow the rules
3-3 To monitor pasture management	Implementation of the pasture utilization rules	Monitoring report, recommendations	July, 2004 and further	Soum government, herders group and JICA	Oyunbat, Radnaamaa and Study Team	T-X	Respond each household or member	Pasture utilization must not have disputes

Plan of Operation for "Hooloin Hond" Well Rehabilitation Project, Ulaanbadrakh Soum (Oct. 6, 2003)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
1-1 To determine the rules of operation and maintenance								
1-1-1 To organize all members' meeting	Decision making on issues is discussed	Meeting notice/protocol	10 Oct., 2003	Khenmedekh	All members	No cost		Attendance of all group members
1-1-2 To appoint a person in charge of well O and M	Person in charge of well O and M is available	T. Chinbaatar, T. Chinbat, T. Ganbaatar	06 Oct., 2003	Group members	Group members	No cost		
1-1-3 To establish the well fund (cash and capital)	Availability of regular well operation	Well fund rules are available	10 Oct., 2003	Group members	Group members	₮ 2,000	Herders group	
1-1-4 To appoint well fund manager	Person in charge of well funds is appointed	Khenmedekh	06 Oct., 2003	Group members	Group members			
1-2 To establish rules for well utilization	Efficient utilization of well	Rules are approved/accepted at the meeting	10 Oct., 2003	Khenmedekh	Group members	₮ 500	Herders group	
1-2-1 To establish order of group members watering animals	Herders know their order of watering animals	Written schedule for watering animals by herders	10 Oct., 2003	Khenmedekh	Group members	₮ 500	Herders group	
1-2-2 To determine the fees for temporary users of well	Well is available for others	The fees consulted with Soum Government	10 Oct., 2003	Khenmedekh	T. Chinbaatar, T. Chinbat, T. Ganbaatar			
1-2-3 To determine fees for well utilization in emergency			In such a case decision will be made in consultation with authorities					
1-3 To conduct the training on operation and maintenance of the well	Persons participating in the training obtain knowledge on O and M of the generator and pump	Training report	Before the operation of well, Oct., 2003	JICA	Well expert	₮ - X	JICA	3 well operators participate in all rehabilitation process from the beginning to the end
1-4 To monitor O & M of the well	Efficient and long term utilization of well	Monitoring report	Monitoring bodies decide	Soum Government, JICA, Herders group	Soum officer, JICA study team member, Khenmedekh	₮ - X	Soum Government, JICA, Herders group	Evaluation of monitoring

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
2-1 To identify/ make sure the location of the rehabilitating well	Well location is determined	Hooloin Hond	Oct., 2003	JICA study team, Herders group	JICA study team expert, Group members	₮ - X	JICA	
2-2 To conduct survey on the pasture condition	Pasture carrying capacity and utilization status are determined	Pasture survey report recommendations	Oct.-Dec., 2003	JICA study team	Pasture expert	₮ - X	JICA	
2-3 To rehabilitate the well	Availability of a good well	Mechanic operations	Oct., 2003	JICA	Well development expert organization	₮ - X	JICA	
2-3-1 To accept the rehabilitated well for operations	Quality is tested	Document of accepting well	Oct., 2003	Herders group	T. Chinbaatar, T. Chinbat, T. Ganbaatar	₮ 10,000	Herders group	
2-4 To make the contract on possession of the well among Soum governor, herders' group and the Study Team	Efficient utilization of well	Contract	Oct., 2003	Soum governor, JICA, herders	Angrigsuren, Tumurbaatar, JICA Study team			
2-5 To rehabilitate an old water trough	Well with a water trough	600 l capacity	Oct., 2003	Herders group	Group members	₮ 50,000	Group members	
2-6 To construct a water reservoir tank	Required volume of water is reserved	4 m3	Oct., 2003	Herders group	Herders group	₮ 250,000	Herders group	
2-7 To construct a pumping house and a fence	Protection of the well and equipment	House 9 m2, fence 20 m	Oct.-Nov., 2003	Herders group	Group members	₮ 1,000,000 (suspended)	Herders group	Self-construction by using locally available low cost materials
3-1 To conduct the training of pasture management importance	Herders obtain the knowledge on pasture utilization	Training program and report	Dec., 2003	JICA, Herders group	Herders group, Study team Pasture expert	₮ - X	JICA, Herders group	All members attend
3-2 To determine the rules of pasture utilization	Efficient utilization of pasture	Pasture utilization rules and schedule	Dec., 2003	Herders group, JICA	Herders group, Study team Pasture expert			No conflict on pasture
3-3 To monitor pasture management	Violations on pasture utilization is eliminated	Monitoring report and recommendations, number of violations and warnings	Dec., 2004 and continued	Soum Government, herders group, JICA	Soum governor, Agricultural officer, Environmental officer, Herders group members and leader, JICA study team	₮ - X	Soum Government, herders group, JICA	Reporting of monitoring results to group members

Plan of Operation for "Tsaidam" Well Rehabilitation Project, PO Workshop, Ulaanbadrakh Soum (Oct. 8, 2003)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
1-1 To determine the rules of operation and maintenance								
1-1-1 To organize all members' meeting	Availability of well O and M rules	Meeting protocol and decision	20 Oct., 2003	S. Sumiya	All members			Attendance of all group members
1-1-2 To appoint a person in charge of well O and M	Well will be looked after	S. Sumiya, S. Sodbayar	08 Oct., 2003	Group members	Group members			
1-1-3 To establish cash funds for well O and M	Cash and capital accumulation	Number of animals to be contributed from each household	20 Oct., 2003	S. Sumiya	Group members			Considering livestock numbers
To appoint well fund manager	Efficient utilization of well fund	Fund manager's name	20 Oct., 2003	S. Sumiya	Group members			Considering to appoint an honest person
1-2 To determine the rules of well utilization								
1-2-1 To determine the order for group members' watering animals	Efficient utilization of water and pasture resources	Written schedule	On the starting day of well operation	S. Sumiya	Group members			Strictly following the schedule
1-2-2 To determine the fees for temporary users of well	Well utilization cost is recovered	Amount of fees	Timing	Group members	Group members			Considering the collection of fees in due time
1-2-3 To determine fees for well utilization in emergency	Well utilization cost is recovered	Amount of fees	20 Oct., 2003	Group members	Group members			Efficient utilization of pasture
1-3 To conduct the training on operation and maintenance of the well	Persons participating in the training obtain knowledge on well O and M	Knowledge obtained by S. Sumiya, S. Sodbayar	Oct., 2003	JICA project Study Team	Study Team well expert	F - X	JICA	Supply with manuals and training materials
1-3-1 Sumiya and Sodbayar transfer the knowledge obtained to others	Some group members obtain basic knowledge on well operations	Skills of some members on well operations	After the well operations	Group leader	Group members			
1-4 To monitor O & M of the well	Efficient utilization of well	Monitoring report, recommendations	Dec., 2004 and continues	Soum Governor, JICA, Herders group	Soum officer, JICA Study Team member, Khenmedekh	F - X	Soum Government, JICA, Herders group	

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
2-1 To conduct geographical survey	Efficient well location is determined	Tsaidam	Oct., 2003	JICA, Herders group	JICA Study Team expert, Group Leader	₹ - X	JICA	
2-2 To conduct survey on the pasture condition	Pasture carrying capacity and resources are determined	Pasture survey report recommendations	Oct., 2003	JICA	Study Team	₹ - X	JICA	
2-3 To make a final decision on a new well location through discussion with all group members	Well becomes operational	Production well	Oct., 2003	JICA	Well development expert organization	₹ - X	JICA	
2-3-1 To accept the rehabilitated well for operations	To make sure that the well is operational	Protocol of accepting well	Oct., 2003	Herders group	S. Sumiya, S. Sodbayar			
2-4 To make the contract on possession of the well among Soum governor, herders' group and the Study Team	Efficient utilization of the well	Contract	Oct., 2003	Soum governor, JICA, herders group	Angriinguren, S. Sumiya, JICA Study Team			
2-5 To construct a new water trough	Possibility of watering animals on the well	800 l capacity	Oct., 2003	Herders group	Group members	₹ 200,000	Herders group	Utilization of old chimney
2-6 To construct a water reservoir tank	Water is reserved	Relocation of water draining pipe	Oct., 2003	JICA, Herders group (make rehab. request)	Well development organization	₹ 20,000	Herders group	To request a rehabilitation
2-7 To fence the well	Protection of well	36 m	Oct., 2003	Herders group	Group members	₹ 100,000	Herders group	To make metal fence
3-1 To conduct the training of pasture management importance	Pasture utilization knowledge is transferred to herders	Training programme and report	Dec., 2003	JICA, Herders group	Herders group, Study Team Pasture expert	₹ - X	JICA	All members attend
3-2 To determine the rules of pasture utilization	Balanced utilization of pasture	Make schedules for pasture utilization	Dec., 2003	Herders group	Group members			No conflict on pasture
3-3 To monitor pasture management	Efficient utilization of pasture	Monitoring report and recommendations	Dec., 2004 and continued	Soum governor, herders group, JICA	Soum government officers, herders group members and JICA Study Team	₹ - X	Soum Government, herders group, JICA	

Plan of Operation for "Uygun Mod" New Well Construction Project, Ulaanbadrakh Soum (Oct. 7, 2003)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be
1-1 To determine the rules of operation and maintenance								
1-1-1 To organize all members' meeting	Rules for efficient utilization, O and M of the well are made	Meeting decision	15 Oct., 2003	L. Ochirbileg	All members			Attendance of all group members
1-1-2 To appoint a person in charge of well O and M	Longer utilization of well and responsible for daily operations	H. Purevdorj, N. Jambalsuren	07 Oct., 2003	Group members	Group members			
1-1-3 To establish cash funds for well O and M	Regular operation of well	Herders contribution	15 Oct., 2003	L. Ochirbileg	Group members			Considering of livestock numbers for establishing funds
1-1-3a To appoint well fund manager	Efficient utilization of the fund	B. Bandi	07 Oct., 2003	Group members	Group members			Considering to appoint an honest person
1-1-3b To determine ways of collecting fees	Shortage of operating money is prevented		Decision will be made at all members meeting					
1-1-3c To determine the fee for watering 1 small animal	Shortage of operating money is prevented		Decision will be made at all members meeting					
1-2 To determine the rules of well utilization								
1-2-1 To make a schedule for group members' watering animals	Efficiency of grazing time for animals is improved	Written schedule for orders of watering animals	15 Oct., 2003	Group members	Group members	₮ 3,000	Herders group	To be flexible considering changes in fuel price
1-2-2 To determine the fees for temporary users of well	Cost of non-members' well utilization can be recovered	Amount of fees	15 Oct., 2003	Group members	Group members			To be flexible considering changes in fuel price
1-2-3 To determine fees for well utilization in emergency	Impact of Draught and Dzud is reduced		Case-by-case decision making in consultation with Soum governor and authorities					Efficient utilization of pasture
1-3 To conduct the training on operation and maintenance of the well	Required knowledge on well O and M is obtained	Training materials	Oct., 2003	JICA project Study Team	Study Team well expert	₮ - X	JICA	H. Purevdorj, N. Jambalsuren attend the training

1-4 To monitor O & M of the well	Regular operation of the well is maintained	Monitoring report (critics, warnings) recommendations	Dec., 2004 and continues	Soum Government, JICA, Herders group	Soum officer, JICA Study Team member, Ochirbileg	₮ - X	Soum Government, JICA, Herders group	
2-1 To conduct geographical survey	Location of a new well is determined	15 t water/day	Oct., 2003	JICA	JICA Study Team expert	₮ - X	JICA	
2-2 To conduct survey on the pasture condition	Pasture carrying capacity and resources are determined	Pasture survey report recommendations	Oct., 2003	JICA	Study Team, herders group	₮ - X	JICA	
2-3 To make a final decision on a new well location through discussion with all group members	Exact well location is determined	Protocol of determining well location	Oct., 2003	JICA, herders group	Study Team, herders group	₮ - X	JICA	Not far from the "Uygun Mod"
2-4 To construct a new well	A new water source is available	Shallow well with generator and pump	Oct., 2003	JICA	Well development expert organization	₮ - X	JICA	Capacity of water tank: 1-1.5 t
2-4-1 To accept the well ready for operations	To make sure that the well is operational	Protocol of accepting well	Oct., 2003	Herders group	H. Purevdorf, N. Jambalsuren	₮ 50,000	Group members	
2-5 To make the contract on possession of the well among Soum governor, herders' group and the Study Team	Efficient utilization of well	Contract	Oct., 2003	Soum governor, JICA, herders group	Angingsuren, S. Ochirbileg, JICA Study Team			
2-6 To construct a water trough	Possibility of watering animals on the well	500-800 l capacity	Oct., 2003	Herders group	Group members	₮ 200,000	Herders group	
2-7 To build a pumping house and fence for the well	Protection of well	House 9 m ² , fence 16 m	Oct.-Nov., 2003	Herders group leader	Group members	₮ 400,000-500,000	JICA, Herders group (suspended)	To request its rehabilitation
3-1 To conduct the training of pasture management importance	Pasture utilization knowledge to herders is transferred	Training report and output	Dec., 2003	JICA	Study Team Pasture expert	₮ - X	JICA	All group members attend
3-2 To determine the rules of pasture utilization	Efficient utilization of pasture	Pasture utilization schedule	Dec., 2003	Ochirbileg	Group members			No conflict on pasture
3-3 To monitor pasture management	Pasture utilization balance is maintained	Monitoring report and recommendations	Dec., 2004 and continued	Soum Government, herders group, JICA	Soum government officers, herders group and JICA Study Team	₮ - X	Soum Government, herders group, JICA	Group members follow monitoring recommendations

Plan of Operation for "Zurkhiin Us" Well Rehabilitation Project, Ulaanbadrakh Soum (Oct. 8, 2003)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be
1-1 To determine the rules of operation and maintenance								
1-1-1 To organize all members' meeting	To reach agreement, and make rules	Meeting protocol and decision	10 Oct., 2003	Baatar	Group members	No cost		Attendance of all group members
1-1-2 To appoint a person in charge of well O and M	Person in charge of daily well operations is available	Battumur, Lkhagyadorj	08 Oct., 2003	Group members	10 Oct., 2003	No cost		
1-1-3 To establish the well fund (cash and capital)	To provide regular well operations	Herders contribution	10 Oct., 2003	Baatar	Group members	No cost		
1-1-4 To appoint well fund manager	Efficient utilization of funds	Baatar	08 Oct., 2003	Group members	Group members	No cost		
1-1-5 To establish ways of collecting O and M fees				Decision to be made at all members meeting				
1-1-6 To make cost estimation for watering 1 head of small animal				Decision to be made at all members meeting				
1-2 To determine the rules of well utilization	Efficient utilization of well	Document with written rules	10 Oct., 2003	Group members	Baatar	₮ 7,000	Group members	
1-2-1 To establish the order of group members watering animals	Livestock grazing time will be extended	Written schedule	10 Oct., 2003	Group members	Group members	₮ 2,000	Herders group	
1-2-2 To determine the fees for non-member herders	Efficient operation of well fund	Fees for watering 1 head of animal	10 Oct., 2003	Herders group				After the well operation fee of watering 1 head of animal will be evaluated considering current fuel price
1-2-3 To determine fees for well utilization in emergency		Case-by-case decision will be made in consultation with Soum Government and other authorities						
1-2-4 To protect the well during unused period		Decision will be made after the well operations						

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be
1-3 To conduct the training on operation and maintenance of the well	Herders obtain required knowledge on the well O and M	Recommendations and manuals	By the time of well operation	JICA	Well expert	₹ - X	JICA	Battumur and Lkhagvadorj participate in the rehabilitation process (installation of the generator and pump)
1-4 To monitor O & M of the well	Regular operations of well is provided	Monitoring report	Oct., 2003 to Dec., 2004 and further	Soum Governor, JICA, Herders group	Soum officer, JICA Study Team member, Group leader	₹ - X	Soum Government, JICA, Herders group	Reporting of the monitoring results and eliminate violations
2-1 To conduct geographical survey	Well location is determined	Zurkhin Us	Oct., 2003	JICA Study Team	JICA Study Team expert	₹ - X	JICA	
2-2 To conduct survey on the pasture condition	Efficient utilization of pasture	Pasture survey document	Oct., 2003	JICA Study Team	Pasture expert	₹ - X	JICA	
2-3 To make a final decision on a new well location through discussion with all group members	Well becomes operational	Good water yield	Oct., 2003	JICA	Well development expert organization	₹ - X	JICA	
2-4 To construct a new well	Efficient utilization of well	Contract document	Oct., 2003	Soum governor, Study Team, herders	Angirigsuren, Baatar, Study Team member			
2-5 To make the contract on possession of the well among Soum governor, herders' group and the Study Team	Availability of water through	600-700 l capacity	Oct., 2003	Group leader Baatar	Herders group	₹ 110,000	Group members	JICA helps transportation
2-6 To construct a water trough	Increase water reserve	1 t capacity metal tank	Oct., 2003	JICA	JICA	₹ - X	JICA	Assistance of funding
2-7 To build a pumping house and fence for the well	Protection of well	House 9 m2, fence 25 m	Oct., 2003 to April 2004	JICA, group leader	Group members	₹ 1,000,000	Soum Government, group members	
3-1 To conduct the training of pasture management importance	Obtain knowledge on pasture utilization	Manual and training materials	Dec., 2003	JICA	Pasture expert	₹ - X	JICA	All members attend
3-2 To determine the rules of pasture utilization	Scheduled utilization of pasture	Pasture utilization rules and recommendations	Dec., 2003	Group leader, pasture expert	Group leader, pasture expert, herders group	₹ 2000	Herders group	
3-3 To monitor pasture management	Efficient utilization of pasture	Monitoring report, violations and warnings	Dec., 2003 to Dec., 2004 and continued	Soum governor, group leader, JICA pasture expert	Soum government, group leader, Study Team	₹ - X	Soum Government, group members, JICA	Reporting of monitoring results to group members

Plan of Operation for "Bayan burd" Khukh Am Well rehabilitation Project, Ulaanbadrakh Soum (Oct. 26, '04)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be
1-1 To determine the rules of operation and maintenance								
1-1-1 To organize all members' meeting	Normal utilization of well	Attendance of all of the 10 members	07 Nov., 2003	Group leader	Group members	0		Attendance of all group members
1-1-2 To appoint a person in charge of well O and M	Regular operation of well	2 appointed persons	07 Nov., 2003	Group leader	Group members	0		Persons with certain technical knowledge
1-1-3 To establish inter funds for well O and M	No conflict between members	Normal operation of funds	07 Nov., 2003	Group leader	Group members	0		Group members should be unanimous
1-1-4 To appoint well fund manager	Proper utilization of fund	Regular operation of funds	07 Nov., 2003	Group leader	Group members	0		Appointing a person correctly
1-1-5 To prepare the rules for determining fees of well utilization	Established rules of utilization	Regular operation of well	07 Nov., 2003	Group leader	Group members	₮ X	Group members	
1-2 To establish rules for well utilization								
1-2-1 To make the schedule for well utilization	Longer grazing time for animals	Fat livestock	07 Nov., 2003	Group leader	Group members	0		
1-3 To conduct the training on operation and maintenance of the well	Obtaining of the required knowledge on well O and M		Installation of pump and generator	Study team (JICA)	Well expert (JICA)	₮ X	JICA	H. Purevdorj, N. Jambalsuren attend the training
1-4 To monitor O & M of the well	Obtaining knowledge of O&M of well	Good condition of the well	From Oct., 2003 to Dec., 2004 and continues	(Soum Government) JICA, Herders group	Group members	₮ X	JICA Soum Government	Herders participate completely
2-1 To identify/ make sure the location of the rehabilitating well	Determining the exact location of the rehabilitating well	Khukh Am	Oct., 2005	JICA	JICA, Well company, Herders group	₮ X	JICA	
2-2 To conduct survey on the pasture condition	Proper utilization of pasture	Obtain knowledge from the result of pasture survey	Oct., 2003	JICA	Pasture expert of JICA Study team	₮ X	JICA	

2-3 To rehabilitate the well	Availability of utilization of well	Test functions of well	12 Oct., 2003	JICA	JICA	JICA	₮ X	JICA	
2-4 To make the contract on possession of the well among Soum governor, herders' group and the Study Team	Longer time for utilization of well, proper utilization of well	Contract document	Oct., 2003	JICA, Soum	Soum-Herders group	0		JICA	
2-5 To rehabilitate a water trough	Watering livestock	Rehabilitation of 8m long water trough	Nov., 2003	Herders group	Experts, Herders group members	Costs- ₮ 50,000 1. Cement 2. Wage 3. Transportation fee		Soum, Herders group	Soum gives financial support to herders group
2-6-1 To rehabilitate a water storage tank	Getting a water storage tank	2,000 liter	Nov., 2003	Herders group	Experts, Herders group members	Costs- ₮ 50,000 1. Cement 2. Wage 3. Transportation fee		Soum, Herders group	
2-6-2 To supervise the rehabilitation work	Improved quality of rehabilitation work	Connected pump with water tanker	Nov., 2003	Well company, JICA, Soum, Herders group	JICA, Well company, Herders group	0			
2-7 To construct a pumping house	Protection of pump equipment	4*4m, Height 2.5m	Spring, 2004	Herders group, Soum	Experts, Herders group	₮ 1,500,000		Aimag, Soum, Herders group	Each member contributes 2 small livestock, Financial support from Soum
3-1 To conduct the training of pasture management importance	Proper utilization of pasture, preventing from wasting pasture	All of the 7 member participated and obtained same understanding	Dec., 2003	JICA	Study team Pasture expert, Herders group	₮ X		JICA	
3-2 To determine the rules of pasture utilization	Efficient utilization of pasture	Herders group members obtain same understanding	Dec., 2003	Soum and Bag governor, Herders group	Herders group, Bag governor	0			
3-3 To monitor pasture management	Observing the rules of pasture utilization on daily operation	No conflict on pasture utilization	From Dec., 2003 and each 3 months by bag governor	Herders group	Soum and Bag governor	0		Soum Government, herders group, JICA	
			in spring and autumn of 2004-2005		JICA				Comparing the established rules with the existing condition

Plan of Operation for "Shuvuun" well. "Shuvuun" Pasture irrigation Project. "Gurvan ovoo" herders group. Sangiin dalai bag. Ulaanbadrakh Soum (03 April, 2004)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be
1-1 To determine the rules of operation and maintenance								
1-1-1 To organize all members' meeting	Can reach an agreement	Protocol and decision from the meeting	04 Apr, 2004	Group leader J.Bud	Group members	T-0		Full participation of all members
1-1-2 To elect a motor operator	The well will be responded	Chinbat, Purev	03 Apr, 2004	Group members	Group members	T-0		
1-1-3 To establish internal fund for well O&M	Will have money for O&M	Decision of fund establishment and collected money from members	04 Apr, 2004	Group leader J.Bud	Group members	T-0		
1-1-4 To elect internal fund manager	Will have a person in charge	Group leader J.Bud	03 Apr, 2004	Group members	Group members	T-0		
1-1-5 To determine rules for well O&M	Will have rules for well O&M	The rule	Before the well operation	Group leader J.Bud	Group members	T-X		Members must follow the rule
1-1-6 To determine way of money collection for well O&M	Will have a fund for O&M	Number of livestock from each member of household	03 Apr, 2004	Group leader J.Bud	J.Bud, P.Munkhsetseg	T-0		The livestock for internal fund must be collected beginning of each year
1-2 To establish rules for well utilization								
1-2-1 To make a schedule for members' animal watering	Will have a schedule of animal watering	The schedule	Before the well operation	Group leader J.Bud	Group members	T-0		The schedule must be allocated to each member of household
1-2-2 To make a rule for collection fees from non-members animal watering	The internal fund money will be increased	The rule	After the well operated					
1-2-3 To make a rule for collection fees in emergency cases								The rule must be discussed by Goum government office
1-3 To conduct the training on operation and maintenance of the well	Obtaining of the required knowledge on well O and M	Manuals and recommendations from the training	Apr, 2004	JICA	Well expert (JICA)	T-X	JICA	All members attendance in the training

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be
1-4 To monitor O & M of the well	Proper utilization of the well	Reports and recommendations from monitoring	Once per month after the well operated	Soum Government, JICA, Herders group and they have a right to decide the time of monitoring	Group leader J.Bud, JICA expert, Agriculture officer	T-X	(Soum Government) JICA, Herders group	If there are mistakes on well O&M, which must be corrected
2-1 To identify the location of the rehabilitating well	Determining the exact location of the rehabilitation well	Shuvuun	Oct., 2003	JICA, herders group	JICA study team, Herders group leader J.Bud	T-X	JICA	
2-2 To conduct survey on the pasture condition.	Pasture carrying capacity will be defined	Survey report	Oct., 2003	JICA	Pasture expert of JICA Study team	T-X	JICA	Herders group must involve to the survey
2-3 To make the contract on possession of the well among Soum governor, herders' group and the Study Team	The pasture can be used legally	The agreement	03 Apr. 2004	(Soum Government) JICA, Herders group	Angiragsuren, J.Bud and Study team	T-0	JICA	
2-4 To rehabilitate a well	Herders group could have a chance to use the well	2000 animals can be watered a day	Oct., 2003	JICA	Well expert organization	T-X	JICA	
2-5 To collect a part of cost for the rehabilitating well	Particular amount of money will be transferred into soum well fund	T 100,000 will be transferred	Apr. 2004	Herders group	Group leader J.Bud			T1,500,000 must be paid within 5 years by herders group into soum well fund
2-6 To install a pump, a generator and other equipments	The well can be completed and ready to use	Must have good quality	Apr-June, 2004	JICA	Well expert organization	T-X	JICA, Herders group	Herders group check the well receiving and normal operating document
2-7 To construct the new water trough	Will have a chance to water animals	700 liters capacity and good quality	Apr-June, 2004	JICA	Well expert organization	T-X	JICA, herders group	
3-1 To conduct the training of pasture management importance	Obtain knowledge on proper utilization of pasture	Report and recommendations from the training	Apr-June, 2004	JICA	JICA pasture expert	T-X	JICA	Full participation of all members
3-2 To determine the rules of pasture utilization	Efficient utilization of pasture	The determined rules	June-Aug. 2004	Group leader J.Bud	Herders group,			The herders group must follow the rule
3-3 To monitor pasture management	Herders group will use the pasture property	Report and recommendations from the monitoring	From June., 2004	Soum Government JICA, Herders group	Naidan, Bud and Study team	T-X	Soum Government, herders group, JICA	Must implement the monitoring recommendations

Plan of Operation for "Talin Ruuts" Well, "Undraa" Pasture irrigation project, "Orgil" Herders group, Ulaanbadrakh Soum (07 Apr, 2004)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
1-1 To determine the rules of operation and maintenance								
1-1-1 To organize all members' meeting	Can reach an agreement	Protocol and decision from the meeting	24 Apr, 2004	Group leader Bayarmagnai	Group members	T-0		Full participation of all members
1-1-2 To elect a motor operator	The well will be responded	Batzorig, Batbayar	04 Apr, 2004	Group members	Group members	T-0		
1-1-3 To establish internal fund for well O&M	Will have money for O&M	Decision of fund establishment and collected money from members	24 Apr, 2004	Group leader Bayarmagnai	Group members	T-0		
1-1-4 To elect internal fund manager	Will have a person in charge	Group leader Bayarmagnai	04 Apr, 2004	Group members	Group members	T-0		
1-1-5 To determine rules for well O&M	Will have rules for well O&M	The rule	24 Apr, 2004	Group leader Bayarmagnai	Group members	T2000	Group members	
1-1-6 To determine way of money collection for well O&M	Will have a fund for O&M		24 Apr, 2004					
1-2 To establish rules for well utilization								
1-2-1 To make a schedule for members' animal watering	Will have a schedule of animal watering	The schedule	24 Apr, 2004	Group leader Bayarmagnai	Group members	T2000	Group members	
1-2-2 To make a rule for collection fees from non-members animal watering	The internal fund money will be increased	Particular fee for non-members animal watering	24 Apr, 2004	Group leader Bayarmagnai	Group members			
1-2-3 To make a rule for collection fees in emergency cases								The rule must be discussed by Goum government office
1-3 To conduct the training on operation and maintenance of the well	Obtaining of the required knowledge on well O and M	Manuals and recommendations from the training	Apr, 2004	JICA	Well expert (JICA)	T-X	JICA	All members attendance in the training

1-4 To monitor O & M of the well	Proper utilization of the well	Reports and recommendations from monitoring	Once per month after the well operated	Soum Government, JICA, Herders group and they have a right to decide the time of monitoring	Group leader J.Bud, JICA expert, Agriculture officer	T-X	(Soum Government) JICA, Herders group	if there are mistakes on well O&M, which must be corrected
2-1 To identify the location of the rehabilitating well	Determining the exact location of the rehabilitation well	Shuvuun	Oct., 2003	JICA, herders group	JICA study team, Herders group leader J.Bud	T-X	JICA	
2-2 To conduct survey on the pasture condition	Pasture carrying capacity will be defined	Survey report	Oct., 2003	JICA	Pasture expert of JICA Study team	T-X	JICA	Herders group must involve to the survey
2-3 To make the contract on possession of the well among Soum governor, herders' group and the Study Team	The pasture can be used legally	The agreement	03 Apr. 2004	(Soum Government) JICA, Herders group	Angragsuren, J.Bud and Study team	T-0	JICA	
2-4 To rehabilitate a well	Herders group could have a chance to use the well	2000 animals can be watered a day	Oct., 2003	JICA	Well expert organization	T-X	JICA	
2-5 To collect a part of cost for the rehabilitating well	Particular amount of money will be transferred into soum well fund	T100,000 will be transferred	Apr., 2004	Herders group	Group leader J.Bud			T1,500,000 must be paid within 5 years by herders group into soum well fund
2-6 To install a pump, a generator and other equipments	The well can be completed and ready to use	Must have good quality	Apr-June, 2004	JICA	Well expert organization	T-X	JICA, Herders group	Herders group check the well receiving and normal operating document
2-7 To construct the new water trough	Will have a chance to water animals	700 liters capacity and good quality	Apr-June, 2004	JICA	Well expert organization	T-X	JICA, herders group	
3-1 To conduct the training of pasture management importance	Obtain knowledge on proper utilization of pasture	Report and recommendations from the training	Apr-June, 2004	JICA	JICA pasture expert	T-X	JICA	Full participation of all members
3-2 To determine the rules of pasture utilization	Efficient utilization of pasture	The determined rules	June-Aug. 2004	Group leader J.Bud	Herders group,			The herders group must follow the rule
3-3 To monitor pasture management	Herders group will use the pasture properly	Report and recommendations from the monitoring	From June., 2004	Soum Government JICA, Herders group	Naidan, Bud and Study team	T-X	Soum Government, Herders group, JICA	Must implement the monitoring recommendations

Plan of Operation for "Golden Water" (Yast well) in Khuyvgul Soum (Sep. 13, '03)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
1-1 To determine the rules of operation and maintenance								
To organize a group members meeting	Established rules	Processing of document	9-10, 2003	Group Leader	Group members	₮ X	Members	Full participation of members
To elect person in charge well O&M	Well will be looked after	Name of person				₮ X		Regular operations
To establish well fund	Regular operation of the well	Fund contribution	Regular operation after Sept., 2003	Based on the meeting decision		₮ X		
Ways of collection fees for well O&M						₮ X		
1-2 To establish rules for well utilization						₮ X		
To make the schedule for watering members' livestock	Established schedule	Written schedule	Following the start of the well operation	Based on the meeting decision		₮ X		
To establish rules for non-member well utilization						₮ X		
1-3 To conduct the training on operation and maintenance of the well	Availability of qualified persons	2 persons	Prior to the well operation	JICA	Well expert	₮ X	JICA	Operations with no stoppage and breakage
1-4 To monitor O & M of the well	Efficient utilization	Conclusions and monitoring	Herders on regular basis	Herders group, Soum administration, Study Team	Group leader, Study Team and Agriculture officer	₮ X	Herders group, Soum administration and Study Team	Operations with no stoppage and breakage
Monitoring by members on the well fund	Maintaining efficient utilization of the fund	No inappropriate actions	Every 6 months from the time of fund establishment	All members	Monitoring unit	₮ X	Herders group	Operations with no stoppage and breakage
2-1 To conduct geographical survey	Determined location of sufficient water point	Watering of 7500 animals & provision of drinking water for 25-30 households	Sept.-Oct., 2003	JICA Study Team	Specialized institute for water survey	₮ X	JICA	Within 1 km location from the old well
2-2 To conduct survey on the pasture condition	Determined pasture balance for utilization	Watering of 7500 animals & provide drinking water for 25-30 households	Sept.-Oct., 2003	JICA Study Team with group members participation	Mr. Batsuuri-Group leader and Study Team pasture expert	₮ X	JICA	

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
2-3 To make a final decision on a new well location through discussion with all group members	Exact location of the well is determined	Agreement is reached and document is signed	Oct., 2003	JICA Study Team with group members participation	Group leader, Study Team	₹ X	JICA	No conflict based on the pasture and water
2-4 To construct a new well	Efficient utilization of pasture and water balance	Well operation and quality is good	April-May, 2004	JICA	Water development institution	₹ X	JICA	Availability of water reservation tank with not less than 5m3
2-4-1 To receive a new well	Evaluation of quality and result	Well is accepted and document is signed	May, 2004	Soum Governor, group leader /with participation of members/	Well operators /appointed by the members meeting/	₹ 40,000	Herders group	
2-5 To make the contract on possession of the well among Soum governor, herdere's group and the Study Team	Regular operation of well is kept	Signed contract	May, 2004	JICA Study Team, bag Governor, herdere's group	JICA Study Team, Mr. Borkhuu and Mr. Batsuuri		2. Construction of new well on the pasture	
2-5-1 To conduct actions according to contract	Well utilization is normal	No violation of rules and equipment breakage/stoppage	May-Dec., 2004 and continued	Herdere's group leader	Well operators			
2-6 To rehabilitate the old water trough	Well with trough and no holding ups for animal watering	Availability of 2t water preservation capacity	May, 2004	Herdere's group leader and members	Group members	₹ 10,000	Herdere's group	
2-7 To construct a pumping house and fence for the well	Well protection	Well house size 3x3m and fence 20x20m	May, 2004	Herdere's group leader and members	Group members	₹ 200,000	Herdere's group	
3-1 To conduct the training of pasture management importance	Knowledge on efficient pasture utilization is obtained	Total of 25 group members will be involved	02 Oct., 2003	JICA	Pasture expert	₹ X	JICA	Bag social/meeting day and hence many people are expected to participate
3-2 To determine the rules of pasture utilization	Rules for scheduled utilization of pasture	Adoption of approved document	02 Oct., 2003 Bag Center	Herdere's group leader	Group members	₹ X	Herdere's group	
3-3 To monitor pasture management	Efficient utilization of pasture	No violation of pasture rules	Oct. 2003 to Dec. 2004 and further	Herdere's group leader	All members	₹ X	Group members	

Plan of Operation for "Otriin uguuj" (Kyars well) in Khuvsgul Soum (Oct. 24, '03)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
1-1 To determine the rules of operation and maintenance								
1-1-1 To organize all members' meeting	Established rules by all member's meeting	Guaranteed pasture	After the starting of well operation	Group leader	Group members	₮ 8,000	₮ 1,000 by each member	
1-1-2 To appoint a person in charge of the well O & M	Waering livestock	Baatar RENCHINNOV	24 Oct., 2003	Group members	Group members	0	0	
1-1-3 To establish well fund for O and M	Constant operation of pump & generator	Depending on the number of livestock of each household	In the condition of the starting of well operation	Group members	Group members	0	0	
1-1-4 To appoint a well fund manager	Constant operation of well, Cost control	Tseveendorj GARIDBAYAR	24 Oct., 2003	Group members	Group members	0	0	
1-2 To establish rules for well utilization								
1-2-1 To establish order of well utilization	Members can water livestock in time	Written schedule	Established by all member's meeting at that time	Group leader	Herders taken up summer quarters	0	0	
1-2-2 To determine the fees for non-member users of the well	Fuel, spare parts can be bought	Fees will be paid by small & big livestock deciding by all member's meeting	Established by all member's meeting	Group members	Group members	0	0	
1-2-3 To determine the fees for well utilization in emergency	Fuel, spare parts can be bought	Fees will be paid by small & big livestock deciding by all member's meeting	Established by all member's meeting	Group members	Group members	0	In emergency, the fee will be decided by all members meeting	
1-3 To conduct the training on operation and maintenance of the well	Obtaining knowledge on well O and M		At the beginning of Nov., 2003	JICA	Baatar RENCHINNOV	X	JICA will be responsible for all costs	Participation of members possible to
1-4 To monitor O & M of the well	Possibility of utilization of well in long period		Throughout the all operation period	Other members of herders Soum Government	Herders group members, Soum Government			
			June & Sep., 2004	JICA				

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
2-1 To identify/ make sure the location of the rehabilitating well			Sep., 2003		JICA Baatar		JICA	
2-2 To conduct survey on the pasture condition			Oct., 2003		JICA Oct., 2003		JICA	
2-3 To rehabilitate the well			Oct., 2003	JICA			JICA	
2-3-1 To receive the rehabilitated well for operations			Nov., 2003	JICA, Herders group members, Soum Government	Renchinov Baatar	X		
2-4 To make the contract on possession of the well among Soum governor, herders' group and the Study Team	Being entitled to use well	Written Contract	Nov., 2003	Soum Government	Soum Government	0		
2-5 To rehabilitate a water trough	Watering livestock on the well		May, 2004	Group leader	Group members	₮ 50,000	Group members Users	
2-6 To rehabilitate a water storage tank	1 t		Nov., 2003	JICA	JICA	₮ 330,000	JICA	Rehabilitation of existing water tanker
2-7 To construct a fence	Protection of well	30 m	June, 2004	Group leader	Group members	X	Group members	
3-1 To conduct the training on the importance of the pasture management	Transfer of the result of pasture survey to herders		May or June(6/3), 2003	JICA Group leader	Group members, users	X		
3-2 To determine the rules of pasture utilization	Efficient utilization of pasture		June, 2004	Bag governor Group leader	Herders, Group members	0	Deciding required costs by all member's meeting	
3-3 To monitor pasture management			From June, 2004 and each 3 months	Bag governor Group leader	Bag governor Group leader	₮ 5000/ time	Well Fund	
				JICA	Group members	X	JICA	

Plan of Operation for "Talin Tsagaan" well, "Elbeg us" Pasture irrigation project, "Bayan tal" Herders group, Khuvsuul Soum (07 Apr, 2004)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
1-1 To determine the rules of operation and maintenance								
1-1-1 To organize all members' meeting	Members will reach an agreement	Report and decision of meeting	15 Apr, 2004	Group leader Jigrii	Group members	T-0		Full participation of members
1-1-2 To elect a motor operator	The well will be responded	Munkhbayar and ?	07 Apr, 2004	Group members	Group members	T-0		
1-1-3 To establish an internal well fund	Particular amount of money will be collected in the fund	Decision of well fund and particular amount of money from herders group	15 Apr, 2004	Group leader Jigrii	Group members	T-0		Households' livestock number must be considered on the collection of money for the internal fund
1-1-4 To appoint the internal well fund manager	Constant operation of well, Cost control	Jigrii	07 Apr, 2004	Group members	Group members	T-0		
1-1-5 To establish rules for well utilization, O&M	Will have a rules on O&M	Rules and documents	15 Apr, 2004	Group leader Jigrii	Group members	T3500	Group members	
1-1-6 To determine way for collection fees for well O&M			15 Apr, 2004					
1-2 To determine rules of well utilization								
1-2-1 To make a schedule for members animal watering	Animal watering schedule will be defined	The schedule of animal watering	15 Apr, 2004	Group leader Jigrii	Group members	T3500	Group members	Herders group must follow the schedule
1-2-2 To determine animal watering fees from non-members	The internal fund can be increased	Particular fee of watering per animal	After well operated	Citizens' representative Khural, Jigrii				
1-2-3 To determine collection fees in emergency cases								The fee must be discussed by Soum government
1-3 To conduct training on well O & M	Herders could obtain knowledge	Manuals and recommendations	Apr-May, 2004	JICA	Well expert	X-T	JICA	

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
1-4 To conduct monitoring on well O&M	Proper utilization of well	Report and recommendations	Monitoring once per month	JICA, Soum government and Herders group	Jigrii, Munkhchimeg and study team	X-T	Organized bodies will respond	The mistakes must be considered and corrected
2-1 To identify the location of the rehabilitating well	The well location defined	Taliin tsagaan	March, 2004	JICA, Herders group	JICA study team, Herders group leader	X-T	JICA	
2-2 To conduct survey on the pasture condition	The carrying capacity defined	Report and recommendations	March, 2004	JICA	JICA study team	X-T	JICA	
2-3 To make an agreement on well possession between Herders group, Soum government and Study team	The well used legally	An agreement	07 Apr, 2004	JICA, Herders group and Soum government	Borkhuu, Jigrii and Study team			
2-4 To rehabilitate a well	Will have chance to use a well	3000-4000 head of animal watering capacity	Apr-May, 2004	JICA	Well expert organization	X-T	JICA, Herders group	
2-5 To collect a part of cost for rehabilitating well	Particular amount of money will be collected in the soum well fund	TI 50,000 must paid into SWF before the installation	Apr, 2004	Group members	Jigrii			TI 50,000 must paid into SWF within 5 years
2-6 To install a pump, a generator and other equipments	The well ready to use	Approved document of normal operation of the well or passport	May, 2004	JICA	Well expert organization	X-T	Group members JICA	Receiving must be checked
2-7 To rehabilitate a water trough	Animals can be watered	Good quality	May, 2004	JICA	Well expert organization	X-T	Group members JICA	
3-1 To conduct the training on the importance of the pasture management	Herders could obtain knowledge	Report and recommendations	June, 2004	JICA	Study team	X-T	JICA	Full participation of members
3-2 To determine the rules of pasture utilization	Efficient utilization of pasture	Report and recommendations	June, 2004	Herders, Group members	Herders, Group members			Members must follow the rules
3-3 To monitor pasture management	The rule will be implemented or followed	Report and recommendations	From Aug, 2004	JICA, Herders group and Soum government	Jigrii, Munkhchimeg and study team	X-T	JICA, Herders group and Soum government	Must consider about the monitoring result

Plan of Operation for "Talin Dov" well, Pasture irrigation project "Sain Us", "Shuvuun" Herders group in Khuvsugul Soum (08 April, 2004)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
1-1 To determine the rules of operation and maintenance								
1-1-1 To organize all members' meeting	Members will reach an agreement	Report and decision of meeting	15 Apr, 2004	Group leader Bayarbilig	Group members	T-0		Full participation of members
1-1-2 To elect a motor operator	The well will be responded by one of group members	Ganzorig, Bayarbilig	08 Apr, 2004	Group members	Group members	T-0		
1-1-3 To establish an internal well fund	Particular amount of money will be collected in the fund for normal well operating	Decision of well fund and particular amount of money from herders group	15 Apr, 2004	Group members	Group members	T-0		
1-1-4 To appoint the internal well fund manager	Constant operation of well, Cost control	Tseveenjagdag	08 Apr, 2004	Group members	Group members	T-0		
1-1-5 To establish rules for well utilization, O&M	Will have a rules on O&M	Rules and documents	15 Apr, 2004	Group leader Bayarbilig	Group members	T2000	Group members	
1-1-6 To determine way for collection fees for well O&M	The way will be decided in the group members' meeting		15 Apr, 2004					
1-2 To determine rules of well utilization								
1-2-1 To make a schedule for members animal watering	The members will be punctual	The schedule of animal watering	15 Apr, 2004	Group leader Bayarbilig	Group members	T2000	Group members	Herders group must follow the schedule
1-2-2 To determine animal watering fees from non-members	The internal fund income can be increased	Particular fee of watering per animal						
1-2-3 To determine collection fees in emergency cases	The fee must be discussed by Soum government							
1-3 To conduct training on well O & M	Herders could obtain knowledge on proper pasture utilization	Manuals and recommendations	Before the well operated	JICA	Well expert	X-T	JICA	Full participation of members
1-4 To conduct monitoring on well O&M	Proper utilization of well	Report and recommendations	Pasture monitored by herders once per month and JICA and soum government will decide their time themselves	JICA, Soum government and Herders group	Bayarbilig, Munkhchimeg and study team	X-T	JICA, Soum government and Herders group	The mistakes must be considered and corrected

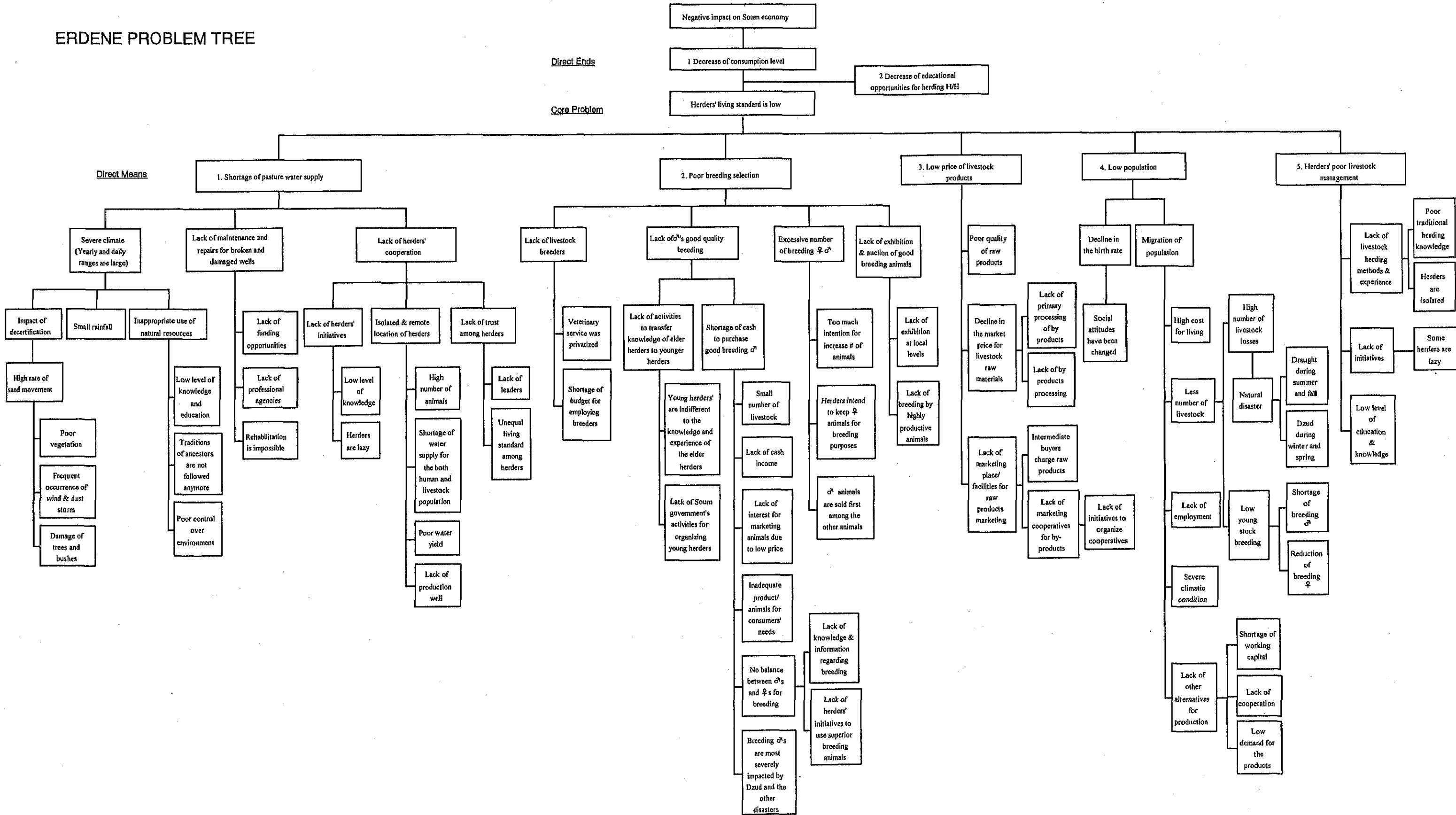
Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
2-1 To identify the location of the rehabilitating well	The well location defined	Taliin dov	March, 2004	JICA, Herders group	JICA study team, Herders group leader	X-T	JICA	
2-2 To conduct survey on the pasture condition	The carrying capacity defined	Report and recommendations	March, 2004	JICA	JICA study team	X-T	JICA	
2-3 To make an agreement on well possession between Herders group, Soum government and Study team	The well used legally	The agreement	08 Apr, 2004	JICA, Herders group and Soum government	Borkhuu, Bayarbilig and Study team			
2-4 To rehabilitate a well	Will use a rehabilitated engineering well	5000 head of animal watering capacity	Apr-May, 2004	JICA	Well expert organization	X-T	JICA, Herders group	The well must be received with approved document of normal operating
2-5 To collect a part of cost for rehabilitating well	Particular amount of money will be collected in the soum well fund	T150,000 must paid into SWF before the installation	Apr, 2004	Group members	Bayarbilig, Tseveenjagdag			T1,500,000 must paid into SWF within 5 years
2-6 To install a pump, a generator and other equipments	The well ready to use	Approved document or passport of normal operation of the well	May, 2004	JICA, herders group	Well expert organization	X-T	Group members JICA	
2-7 To construct a new water trough	Animals can be watered	Good quality of material and water trough must be held with ground	May, 2004	JICA, herders group	Well expert organization	X-T	Group members JICA	
3-1 To conduct the training on the importance of the pasture management	Herders could obtain knowledge	Report and recommendations	May-June, 2004	JICA, herders group	Study team, Bayarbilig	X-T	JICA	Full participation of members
3-2 To determine the rules of pasture utilization	Efficient utilization of pasture	Rules and recommendations	Aug, 2004	Herders, Group members	Herders, Group members, Bayarbilig			Pasture dispute should not happened
3-3 To monitor pasture management	The rule will be implemented or followed	Report and recommendations	From Aug, 2004	JICA, Herders group and Soum government	Bayarbilig, Munkichtimeg and study team	X-T	JICA, Herders group and Soum government	

Plan of Operation for "Tataalin Gol" well, Pasture irrigation project "Tataalin bulag", "Tsoiglog" herders group in Javkhilant bag in Khuvsuul Soum (08 Apr, 2004)

Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
1-1 To determine the rules of operation and maintenance								
1-1-1 To organize all members' meeting	Members will reach an agreement and decision	Report and decision of meeting	19 Apr, 2004	Group leader Erdenejargal	Group members	T-0		Full participation of members
1-1-2 To elect a motor operator	The well will be responded by one of group members	Erdenejargal Sukhbaatar	08 Apr, 2004	Group members	Group members	T-0		
1-1-3 To establish an internal well fund	Particular amount of money will be collected in the fund for normal well operating	Internal well fund rule and particular amount of money from herders group	19 Apr, 2004	Group leader Erdenejargal	Group members	T-0		
1-1-4 To appoint the internal well fund manager	Constant operation of well, Cost control	Group leader Erdenejargal	08 Apr, 2004	Group leader Erdenejargal	Group members	T-0		
1-1-5 To establish rules for well utilization, O&M	Will have a rules on O&M	Rules and documents	19 Apr, 2004	Group leader Erdenejargal	Group members	T2000	Group members	Members must follow the rule
1-1-6 To determine way for collection fees for well O&M	The way will be decided in the group members' meeting		19 Apr, 2004					
1-2 To determine rules of well utilization								
1-2-1 To make a schedule for members animal watering	The members will be punctual	The schedule of animal watering	19 Apr, 2004	Group leader Erdenejargal	Group members	T-0		
1-2-2 To determine animal watering fees from non-members	Particular fee of watering per animal		19 Apr, 2004					Ask some essential information from Soum government
1-2-3 To determine collection fees in emergency cases	The fee must be discussed by Soum government							The group leader should ask the fee for emergency to Soum government

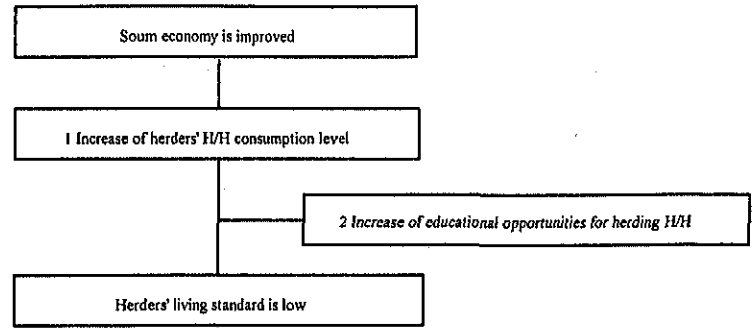
Activities	Expected Results	Indicators	Schedule	Person in Charge	Implementer	Costs	Cost Payer	Factors to be Considered
1-3 To conduct training on well O & M	Herders could obtain knowledge on proper pasture utilization	Manuals and recommendations	Before the well operated	JICA	Well expert	X-T	JICA	Full participation of members
1-4 To conduct monitoring on well O&M	Proper utilization of well	Report and recommendations	Pasture monitored by herders once per month and JICA and soum government will decide	JICA, Soum government and Herders group leader	Erdenejargal, Munkhchimieg and JICA	X-T	JICA, Soum government and Herders group	
2-1 To identify the location of the rehabilitating well	The well location defined	Tataalin gol	March, 2004	JICA, Herders group	JICA study team, Herders group leader	X-T	JICA	
2-2 To conduct survey on the pasture condition	The carrying capacity defined	Report and recommendations	March, 2004	JICA	JICA study team	X-T	JICA	
2-3 To make an agreement on well possession between Herders group, Soum government and Study team	The well used legally	The agreement	08 Apr. 2004	JICA, Herders group and Soum government	Borkhuu, Erdenejargal and Study team			
2-4 To rehabilitate a well	Number of engineering well will increase	4000 head of animal watering capacity	Apr-May, 2004	JICA	Well expert organization	X-T	JICA, Herders group	
2-5 To collect a part of cost for rehabilitating well	Particular amount of money paid into SWF	TI 50,000 must paid into SWF before the installation	Apr, 2004	Group members	Group leader Erdenejargal			TI 50,000 must paid into SWF within 5 years
2-6 To install a pump, a generator and other equipments	The well ready to use	Approved document or passport of normal operation of the well	May, 2004	JICA	Well expert organization	X-T	Group members JICA	The well must be checked when it received
2-7 To construct a new water trough	Animals can be watered	Good quality of material and water trough must be held with ground strongly	May, 2004	JICA	Well expert organization	X-T	Group members JICA	The water trough material must be strong for hard use
3-1 To conduct the training on the importance of the pasture management	Herders could obtain knowledge	Report and recommendations	June, 2004	JICA	Study team, Bayarbilig	X-T	JICA	Full participation of members
3-2 To determine the rules of pasture utilization	Proper utilization of pasture	Rules and recommendations	June or Aug. 2004	Herders, Group members	Group leader Erdenejargal			Members must follow the rule
3-3 To monitor pasture management	The rule must be implemented or followed	Report and recommendations	From Sep. 2004 and always	JICA, Herders group and Soum government	Erdenejargal, Munkhchimieg and study team	X-T	JICA, Herders group and Soum government	

ERDENE PROBLEM TREE



F.5.5 Problem and Objective Tree - Results of Workshop in Each Soum -

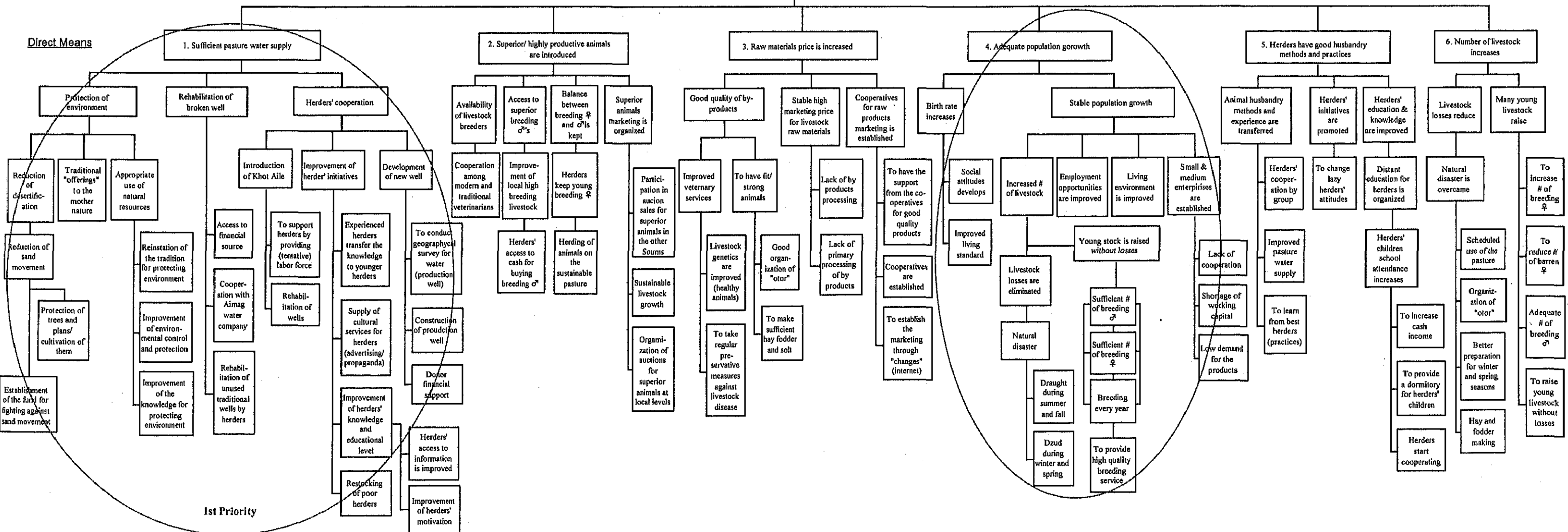
ERDENE OBJECTIVE TREE



Direct Ends

Core Objective

Direct Means



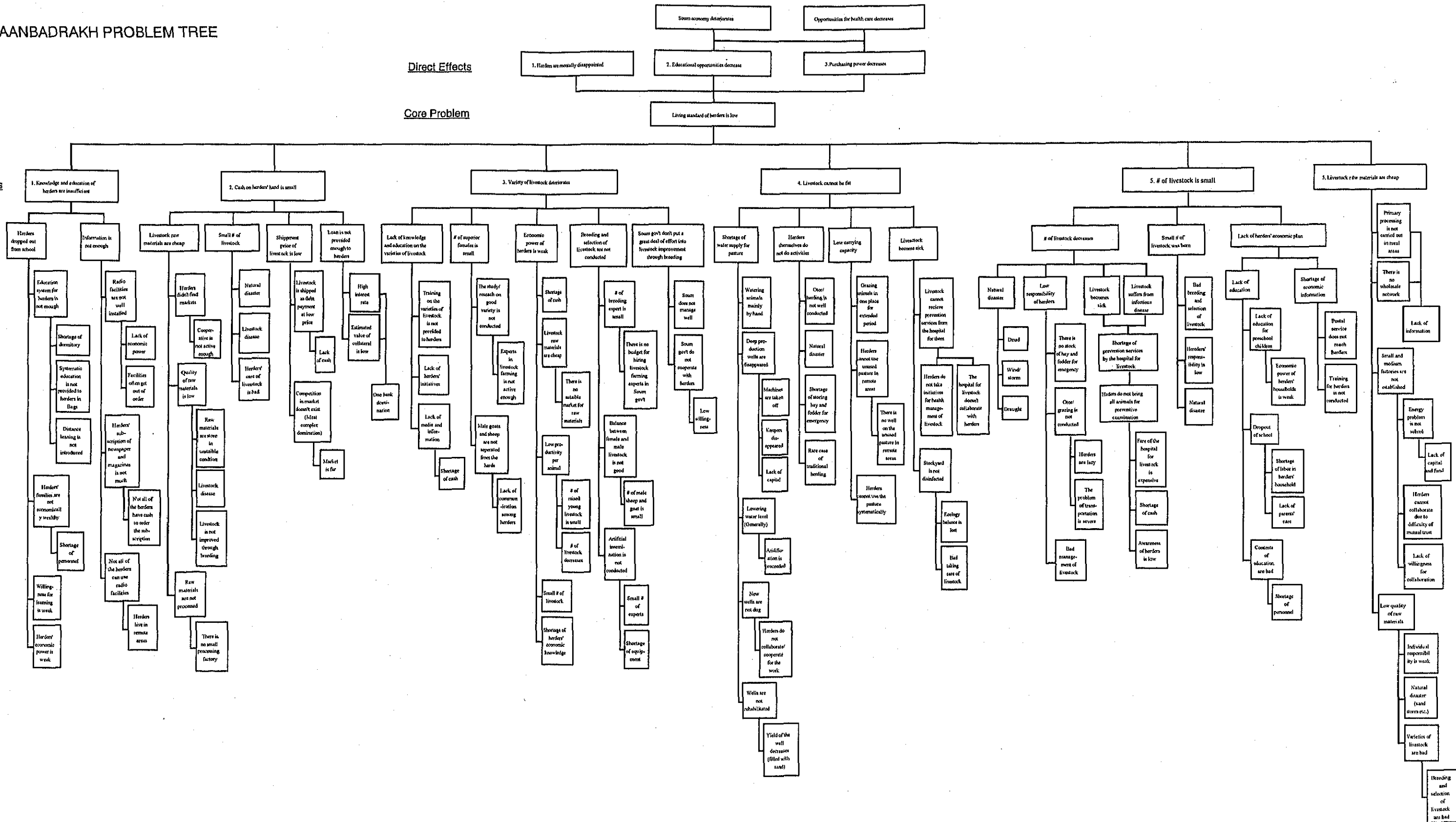
1st Priority

ULAANBADRAKH PROBLEM TREE

Direct Effects

Core Problem

Direct Causes



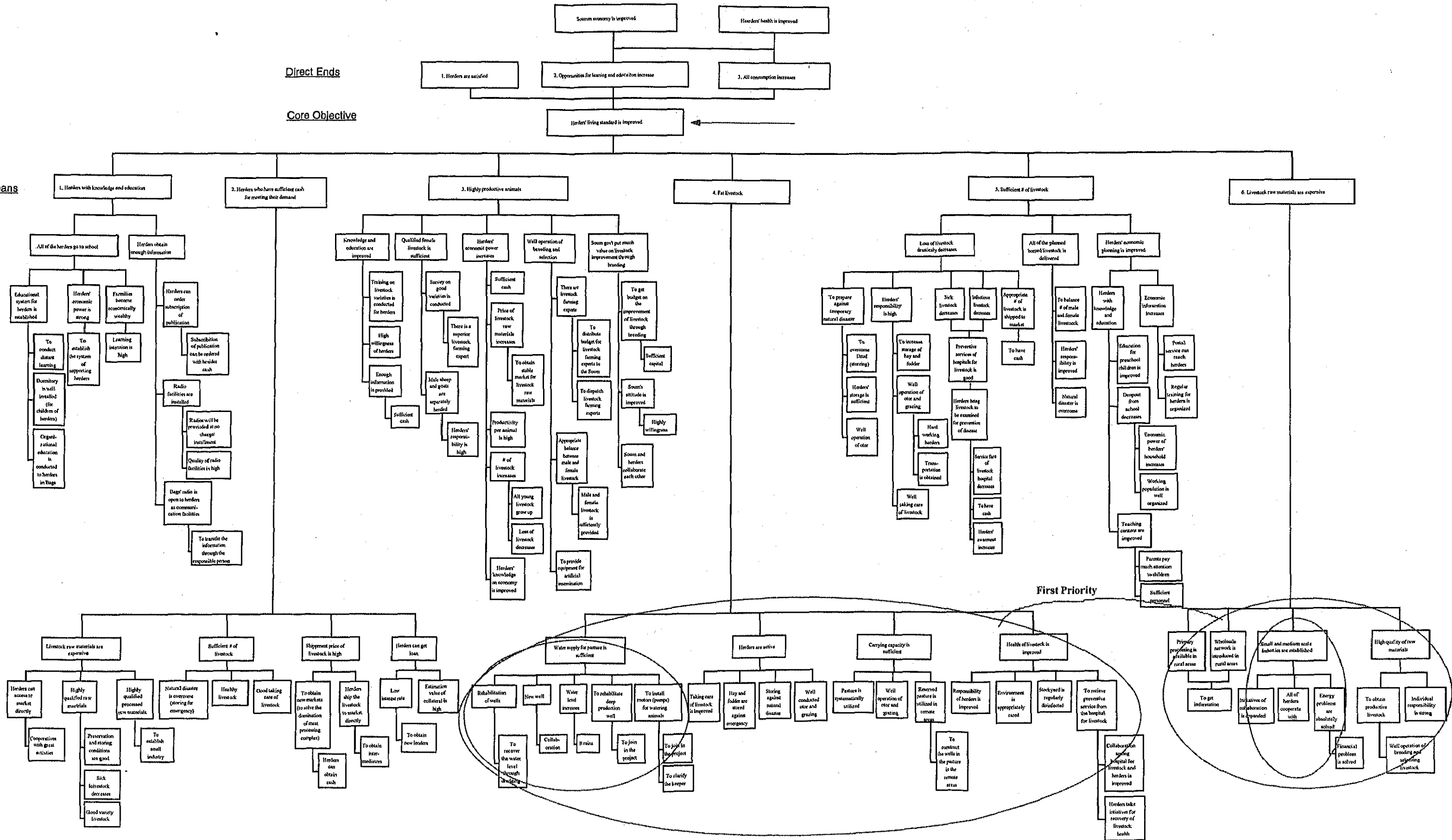
ULAANBADRAKH OBJECTIVES TREE

Direct Ends

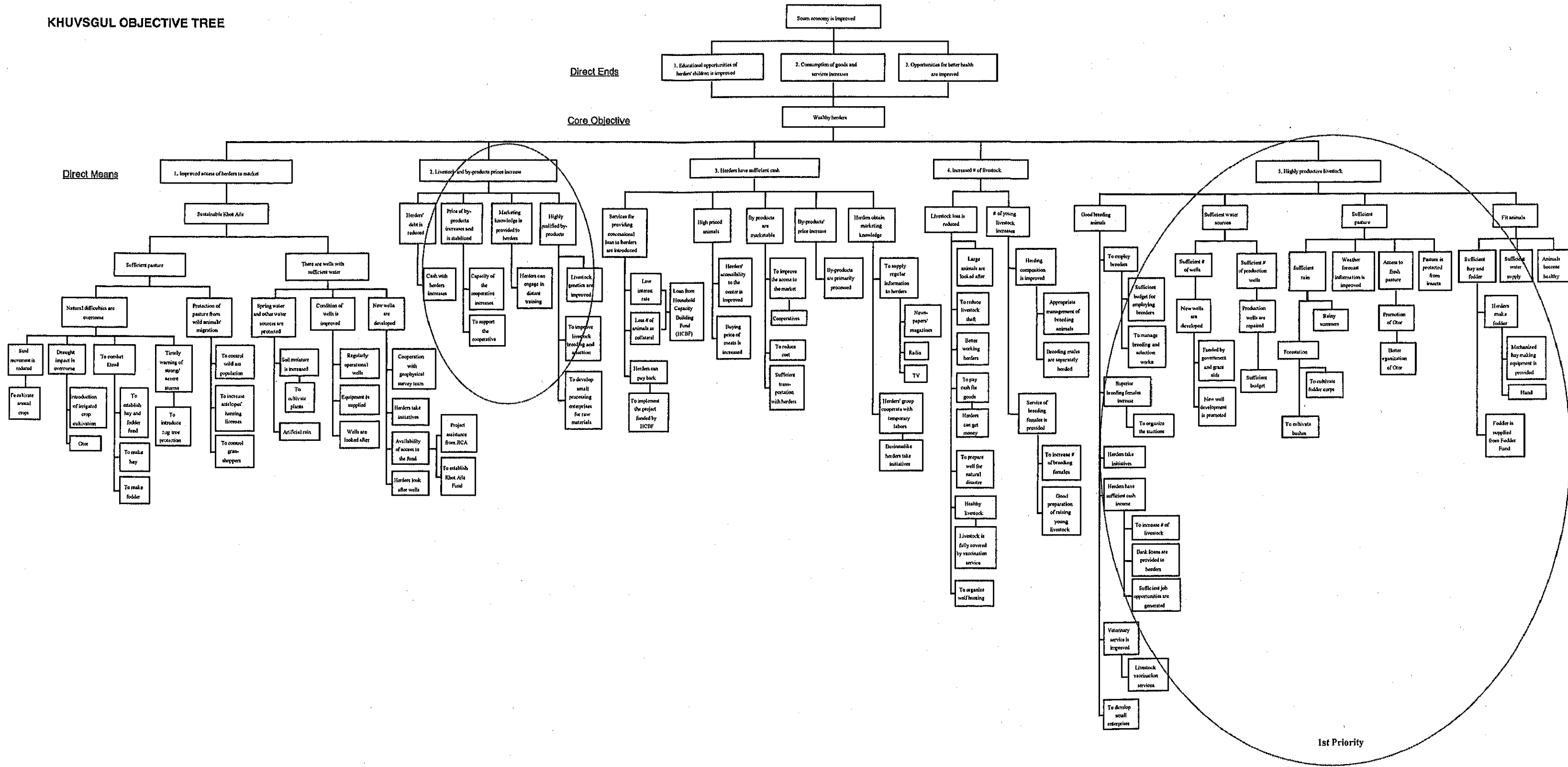
Core Objective

Direct Means

First Priority



KHUVSGUL OBJECTIVE TREE



Kyuvsgul Problem Tree

