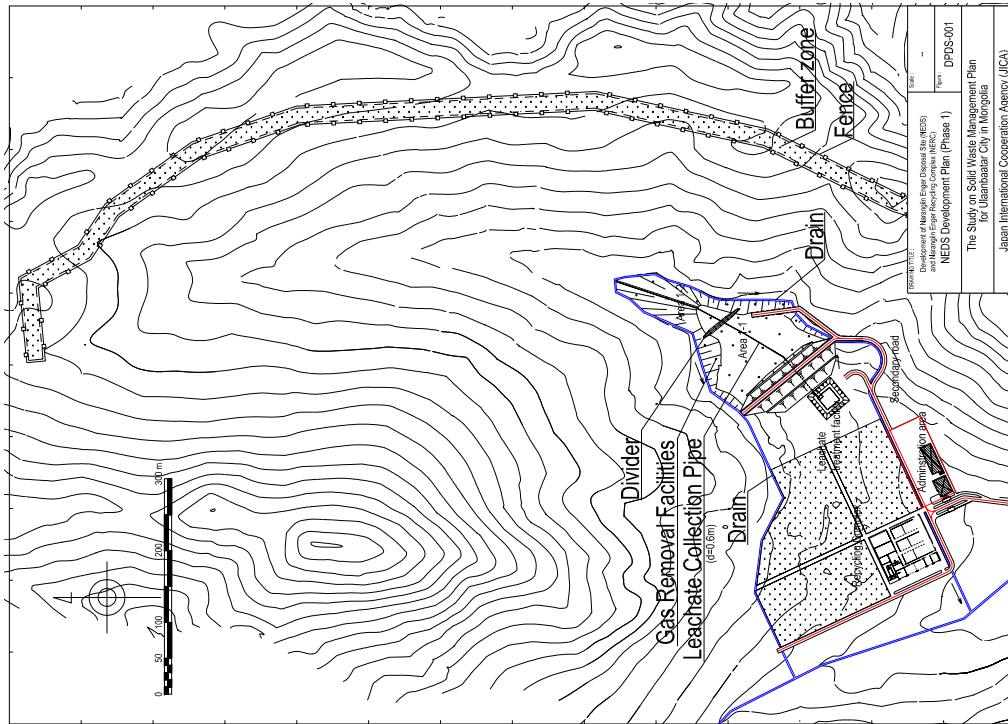
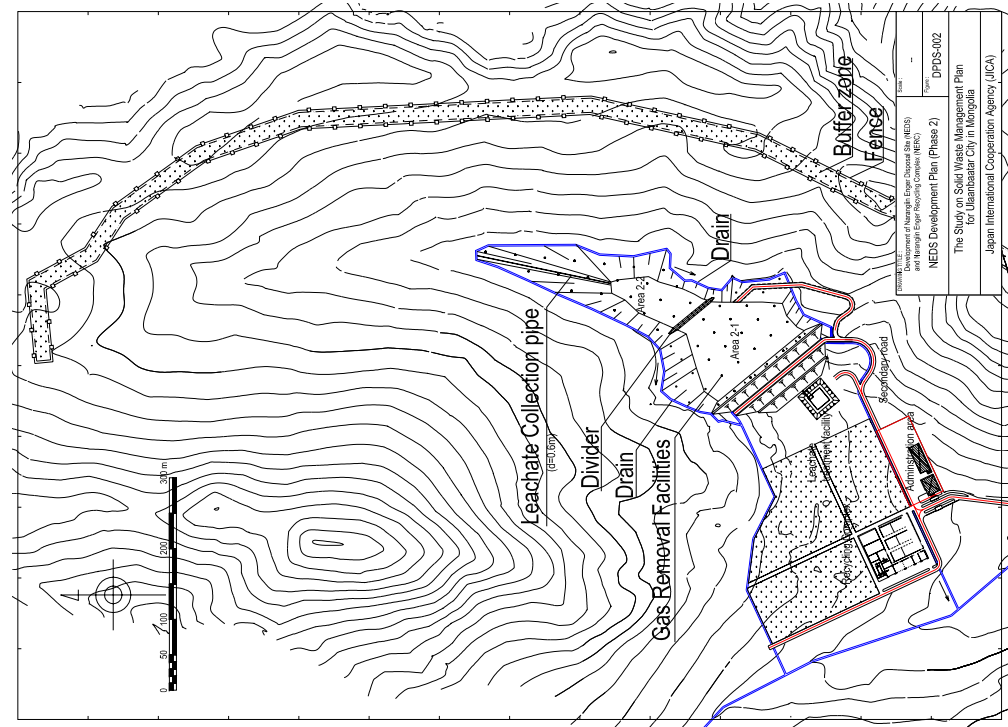
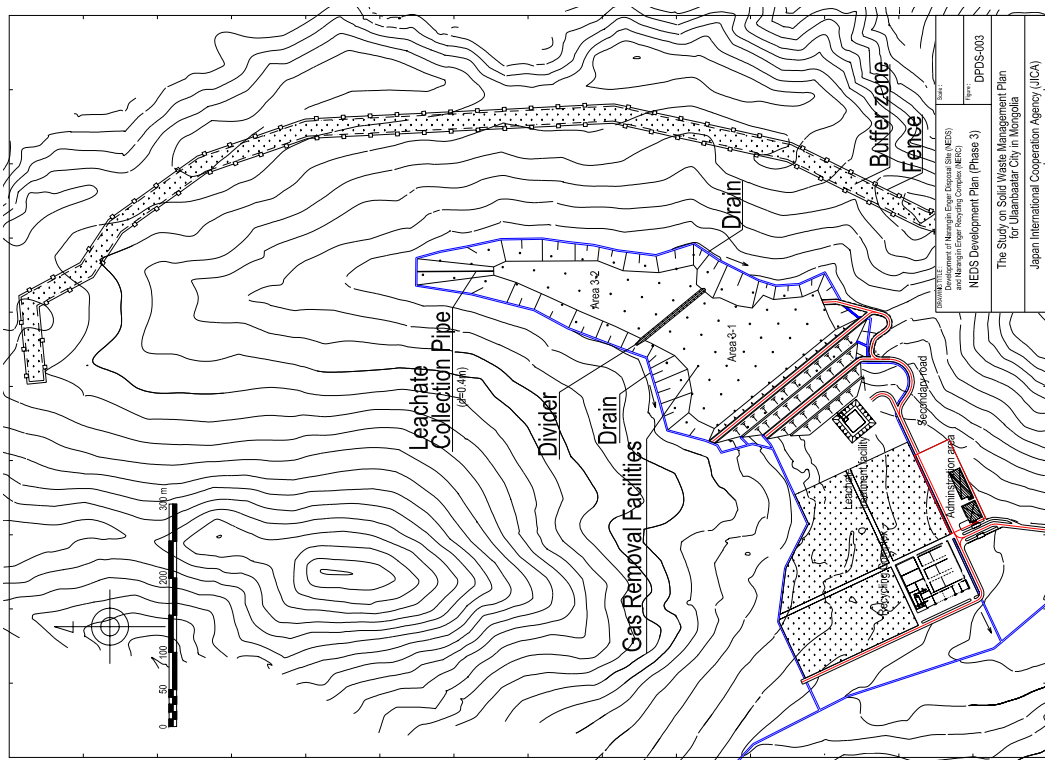
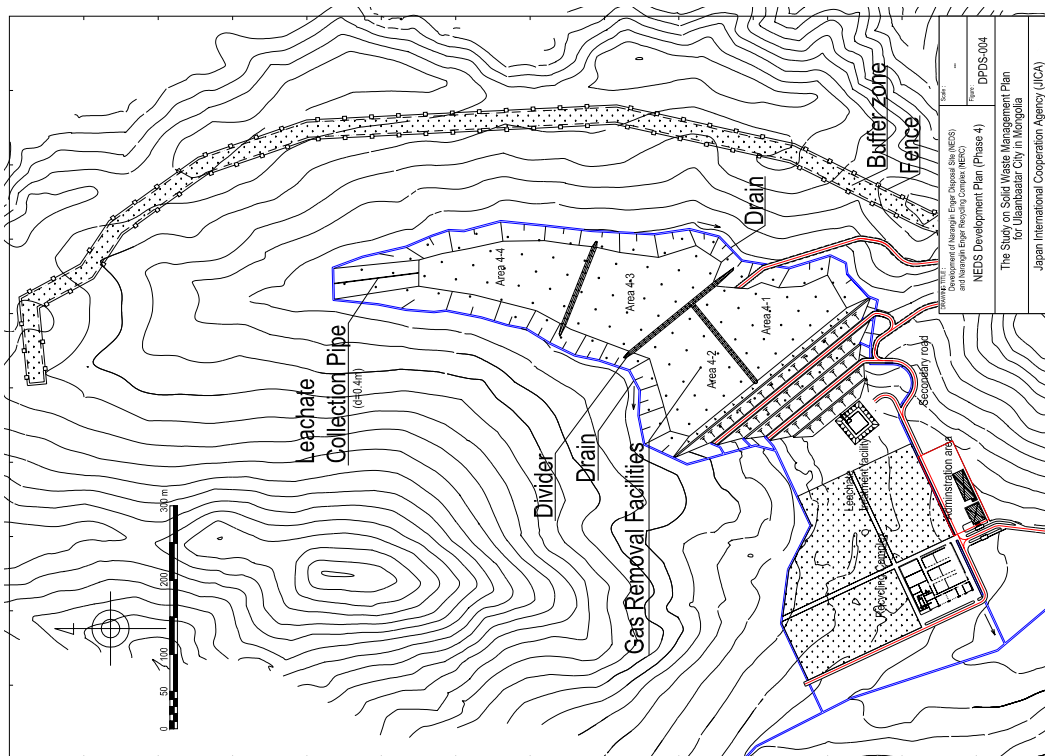
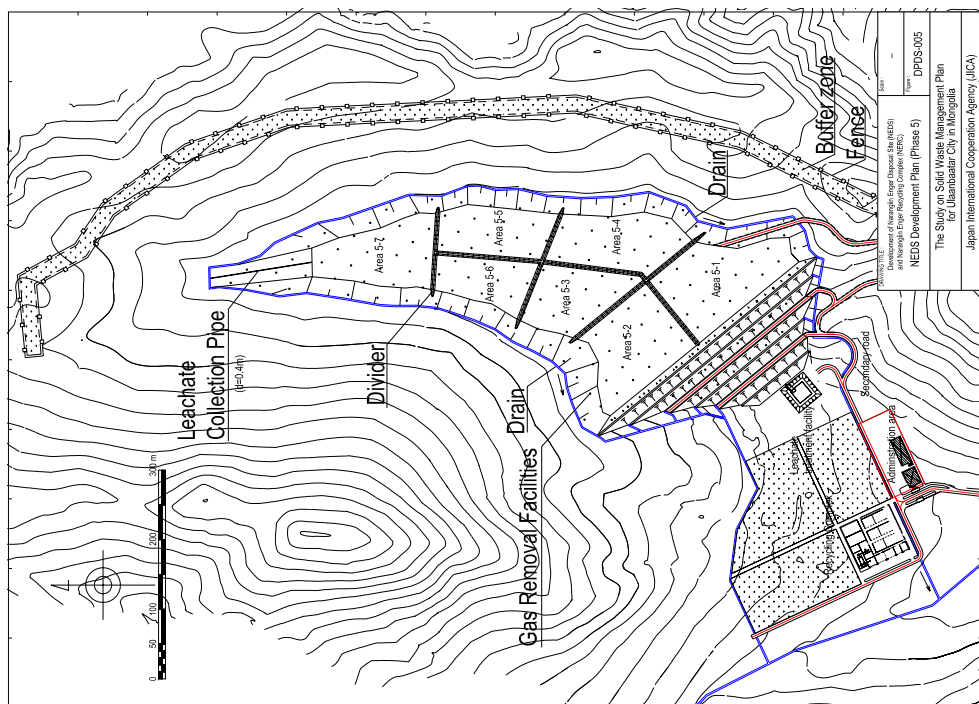
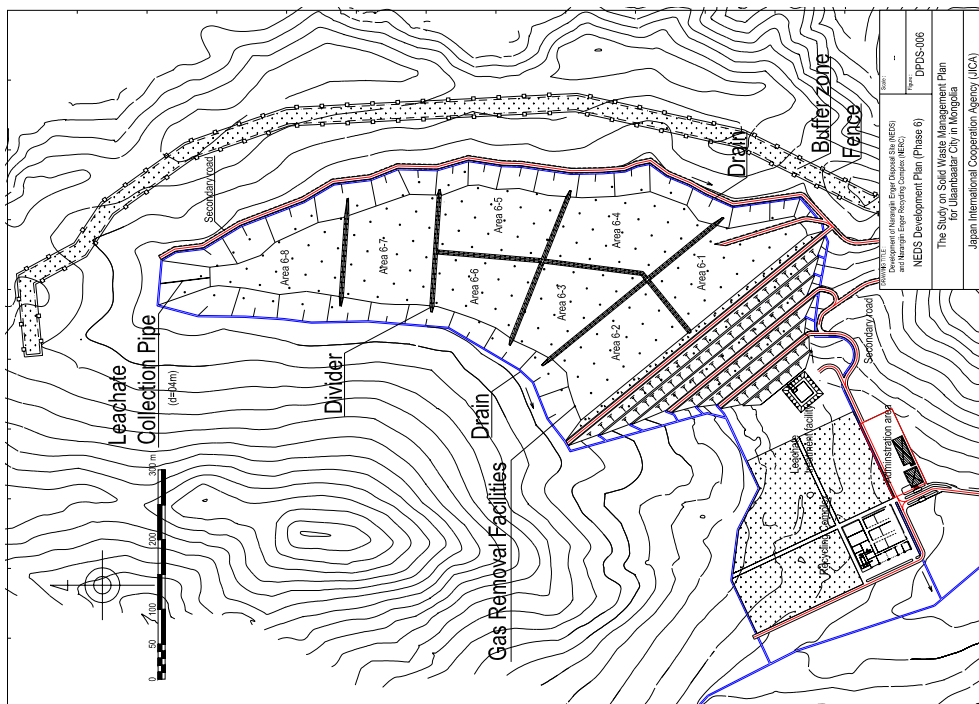
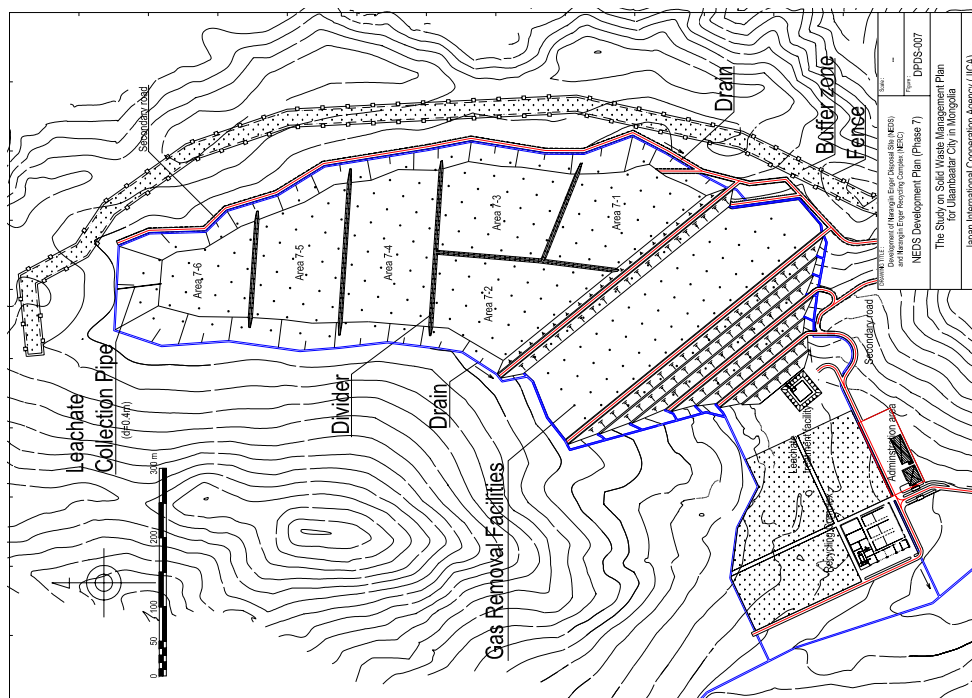
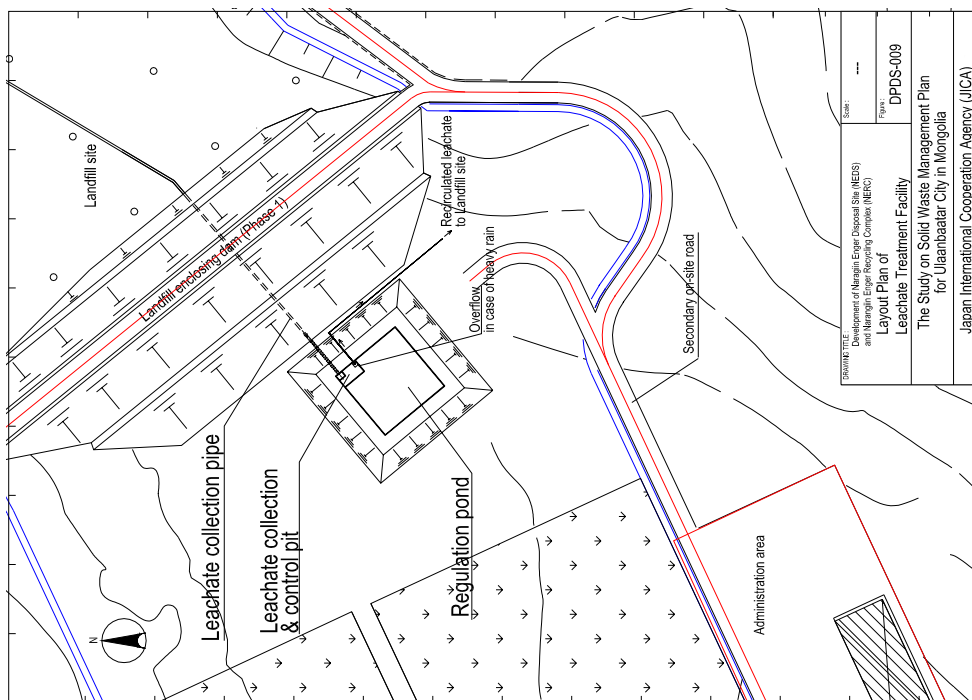


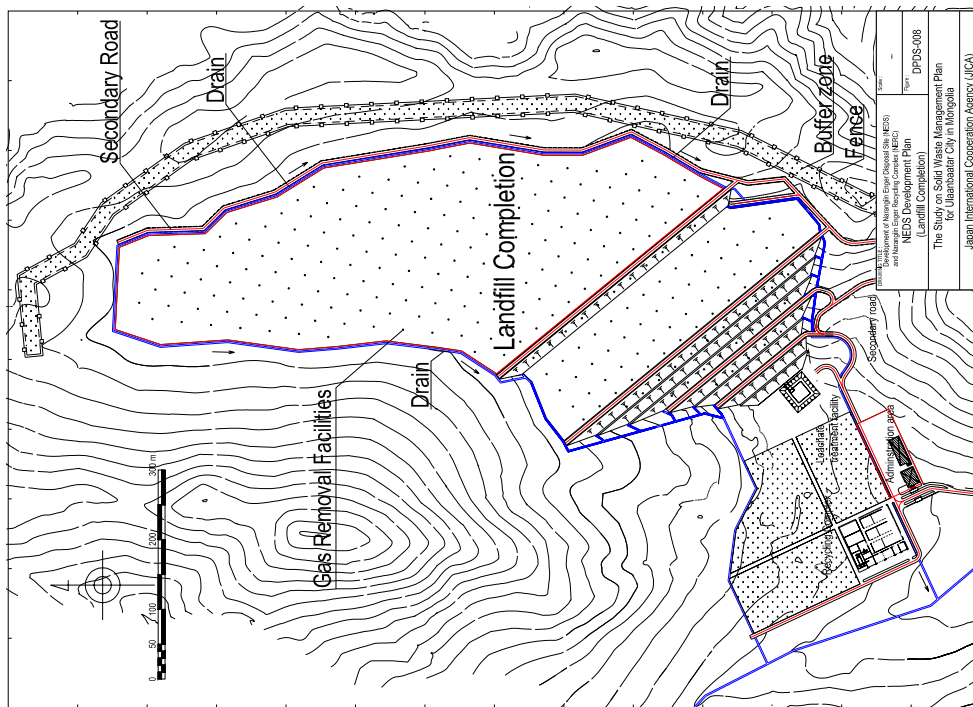
2. Development Plan of NEDS (DPDS)



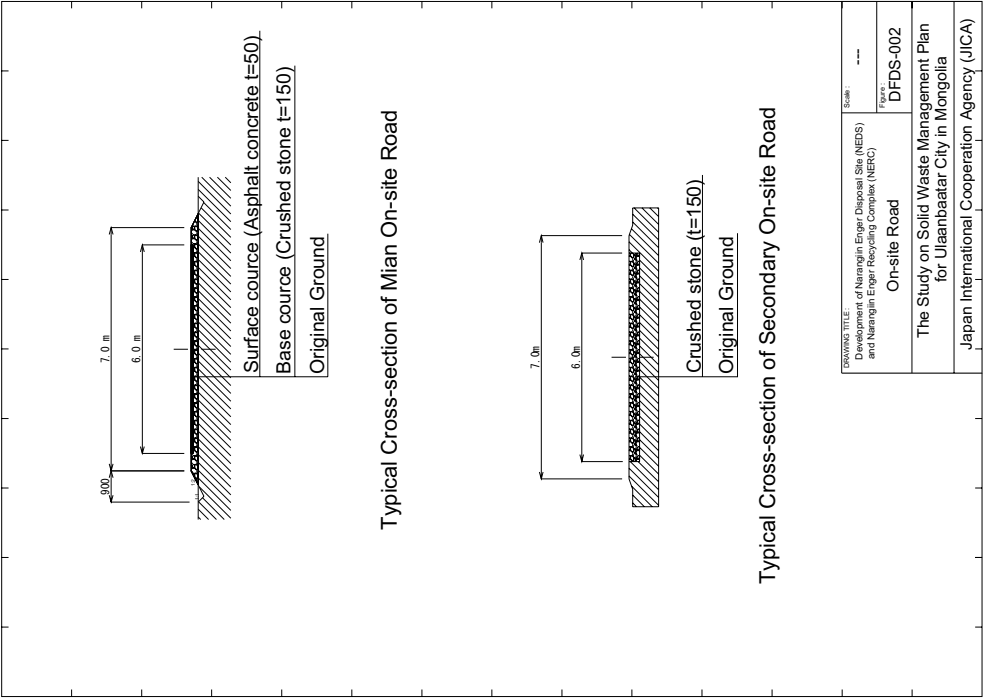
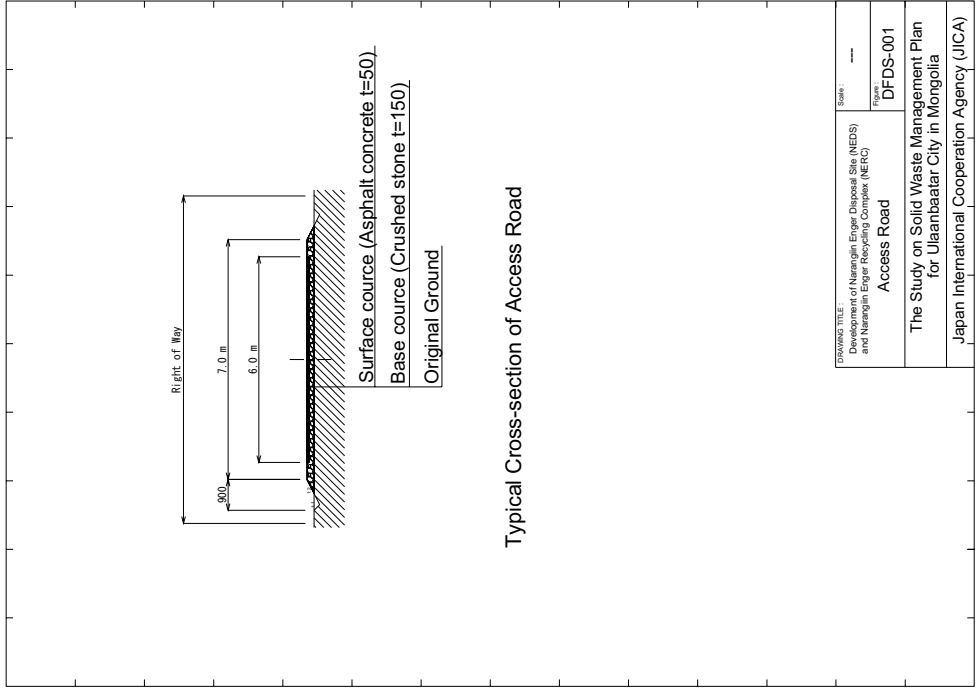


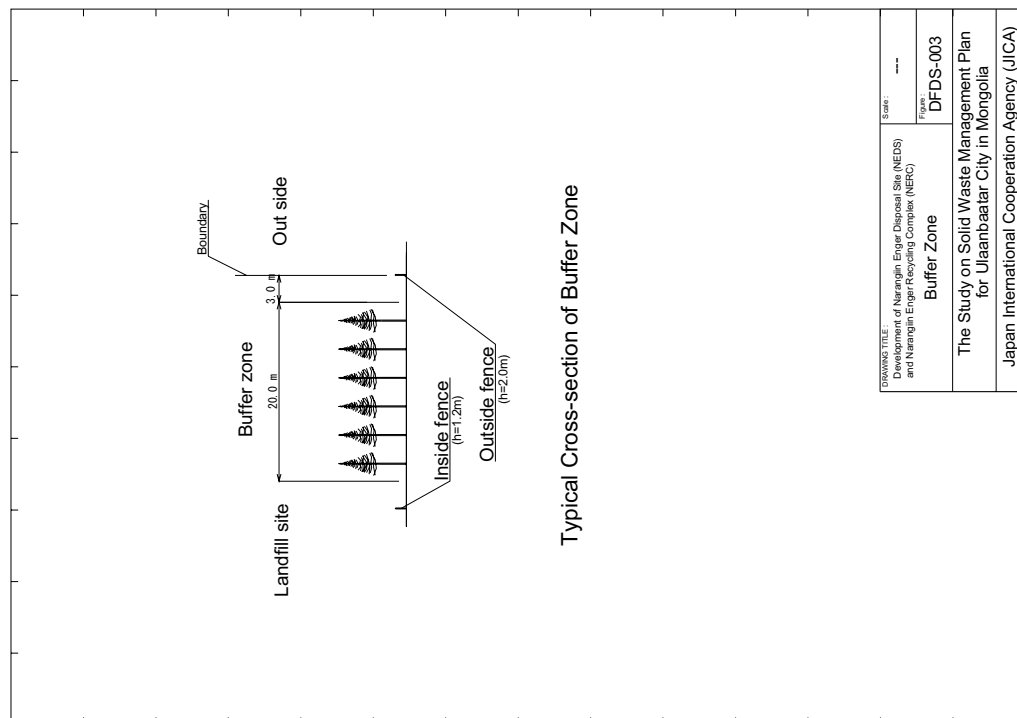
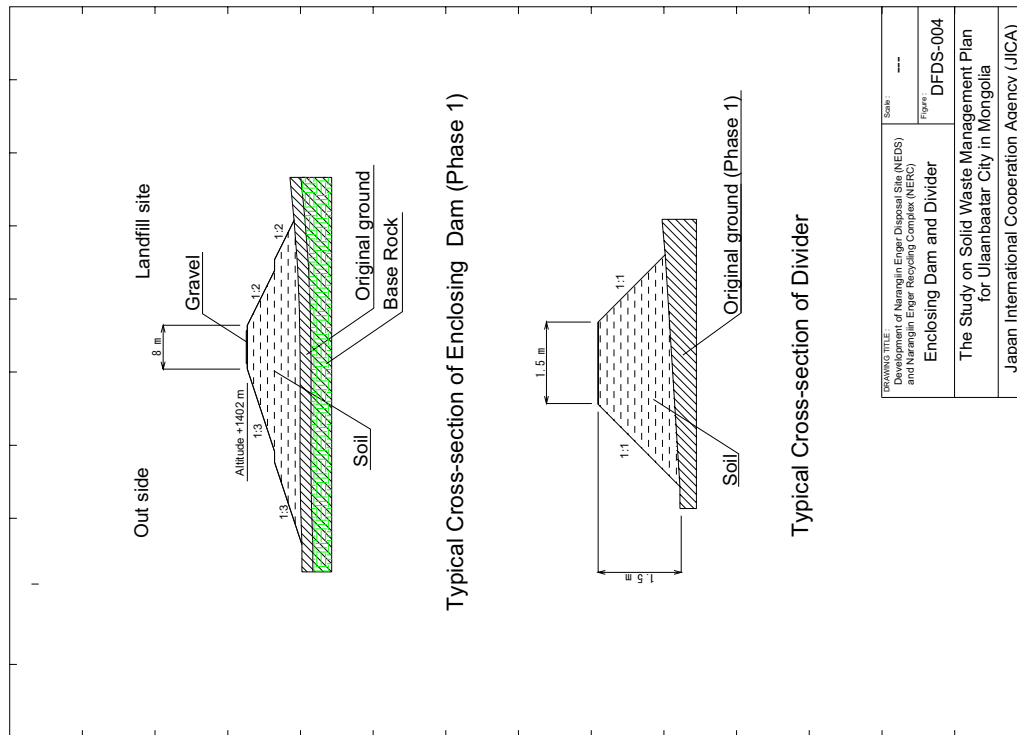




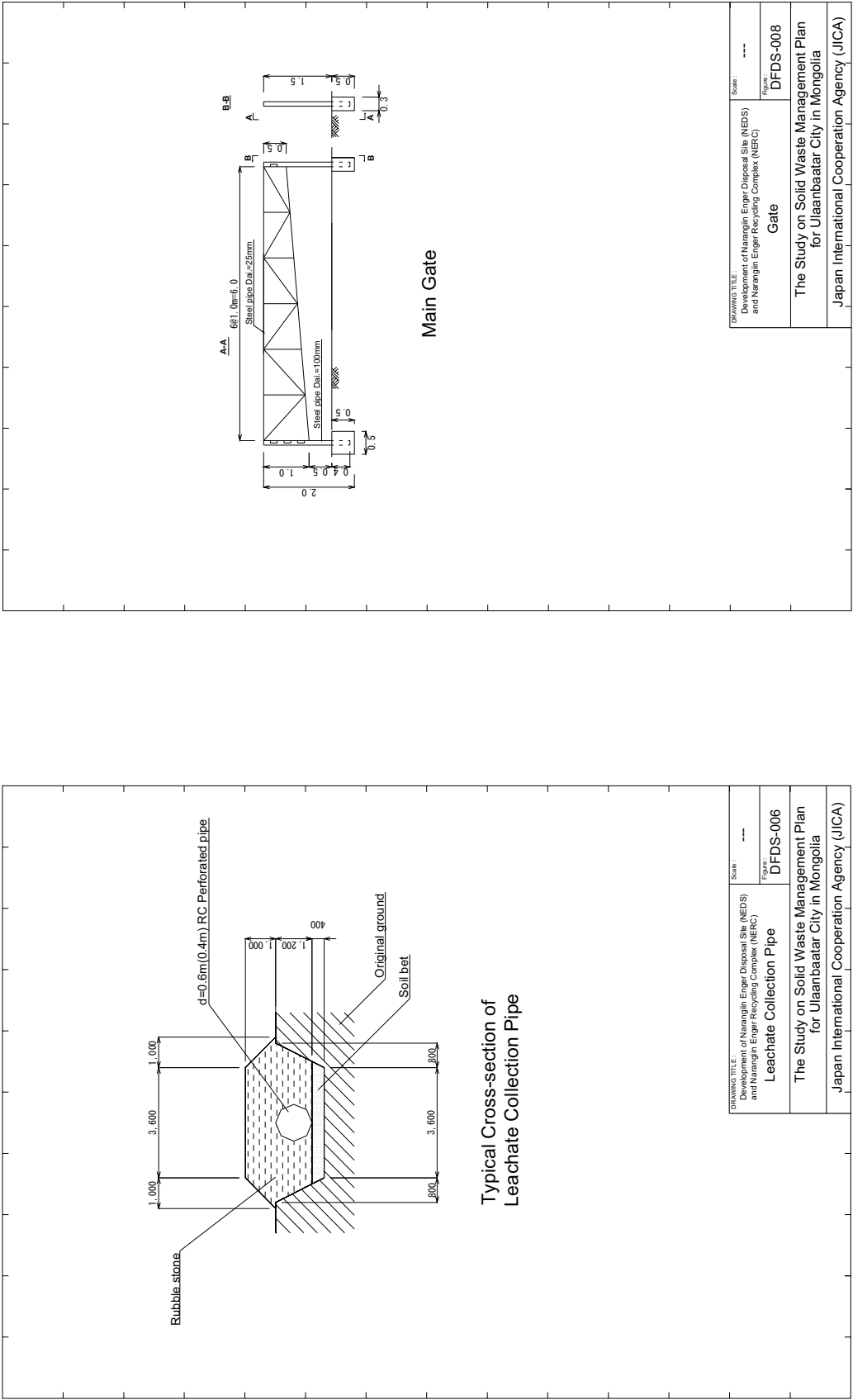


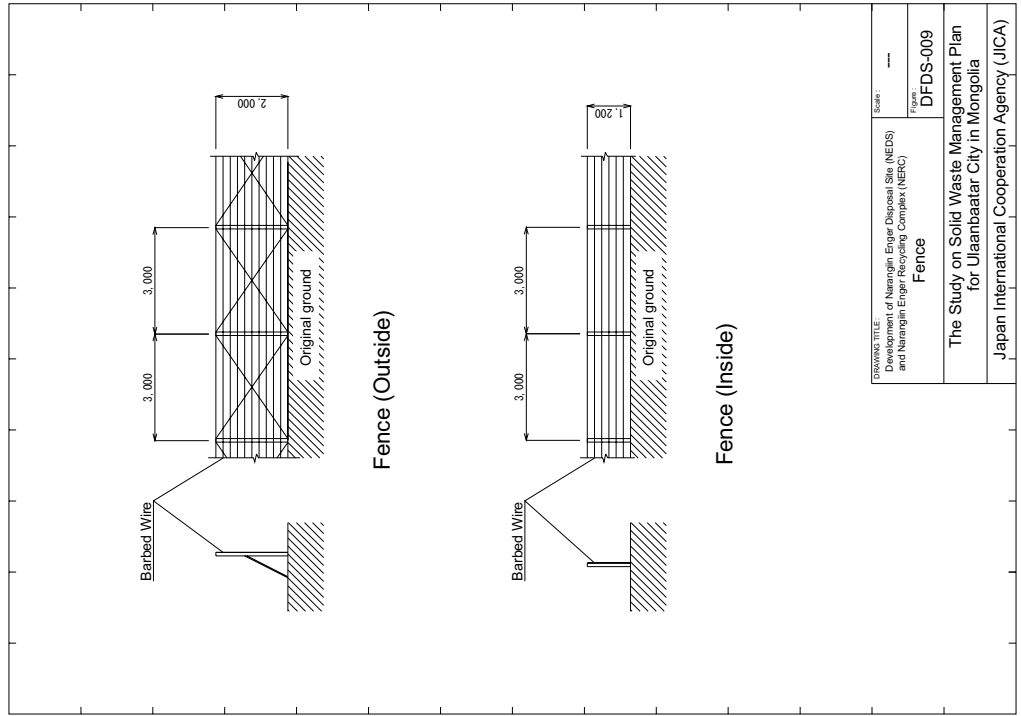
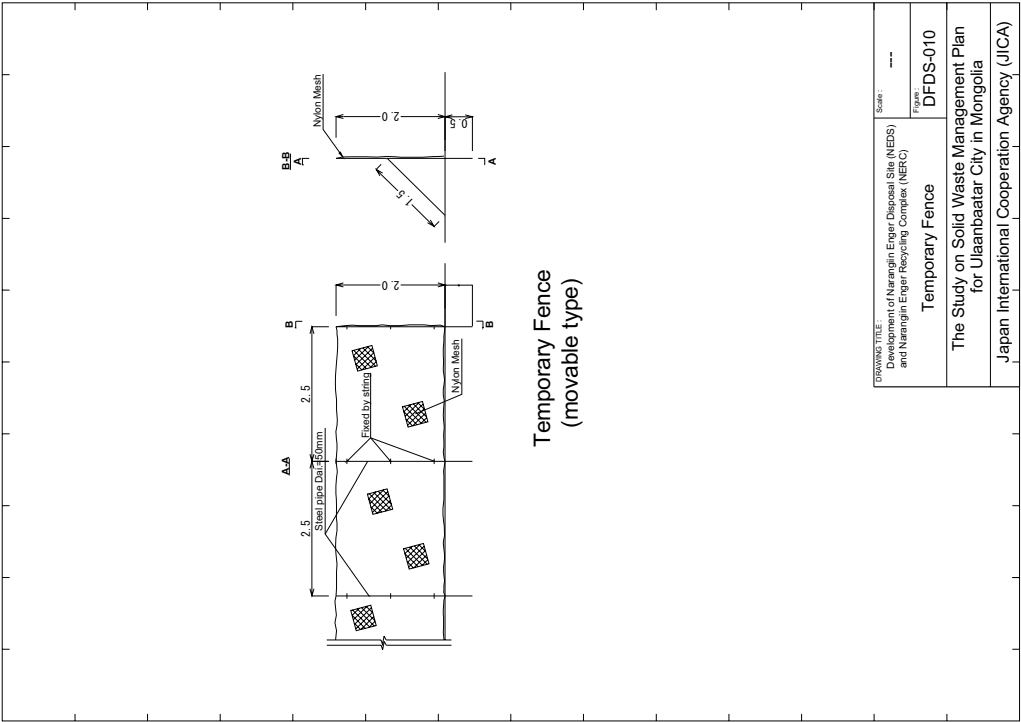
3. Design of Facilities for NEDS (DFDS)

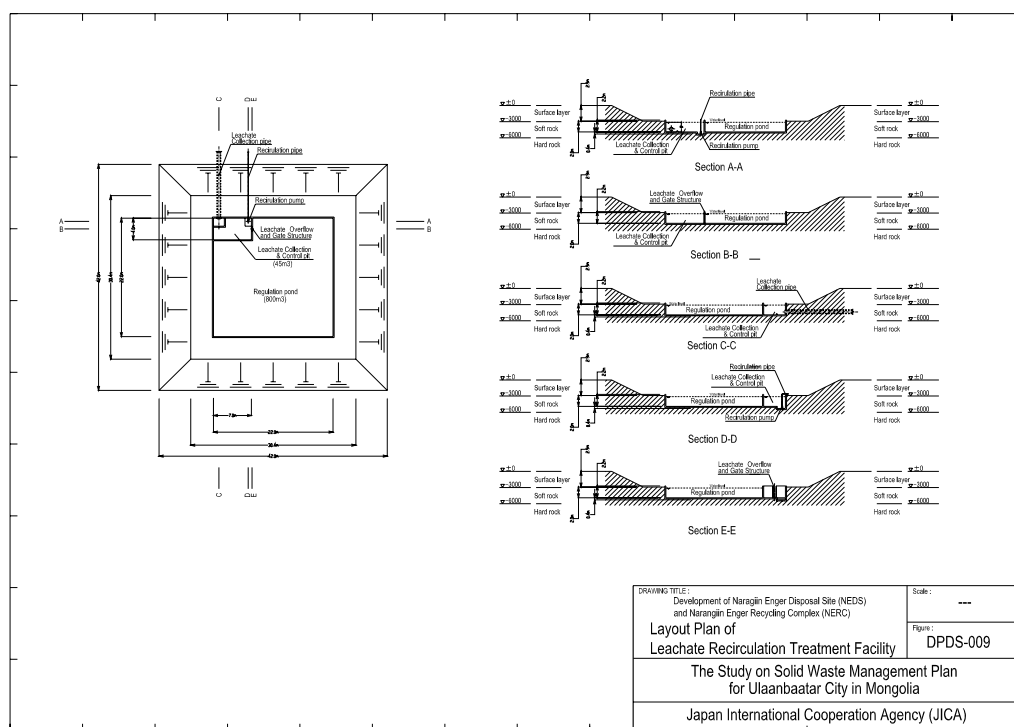




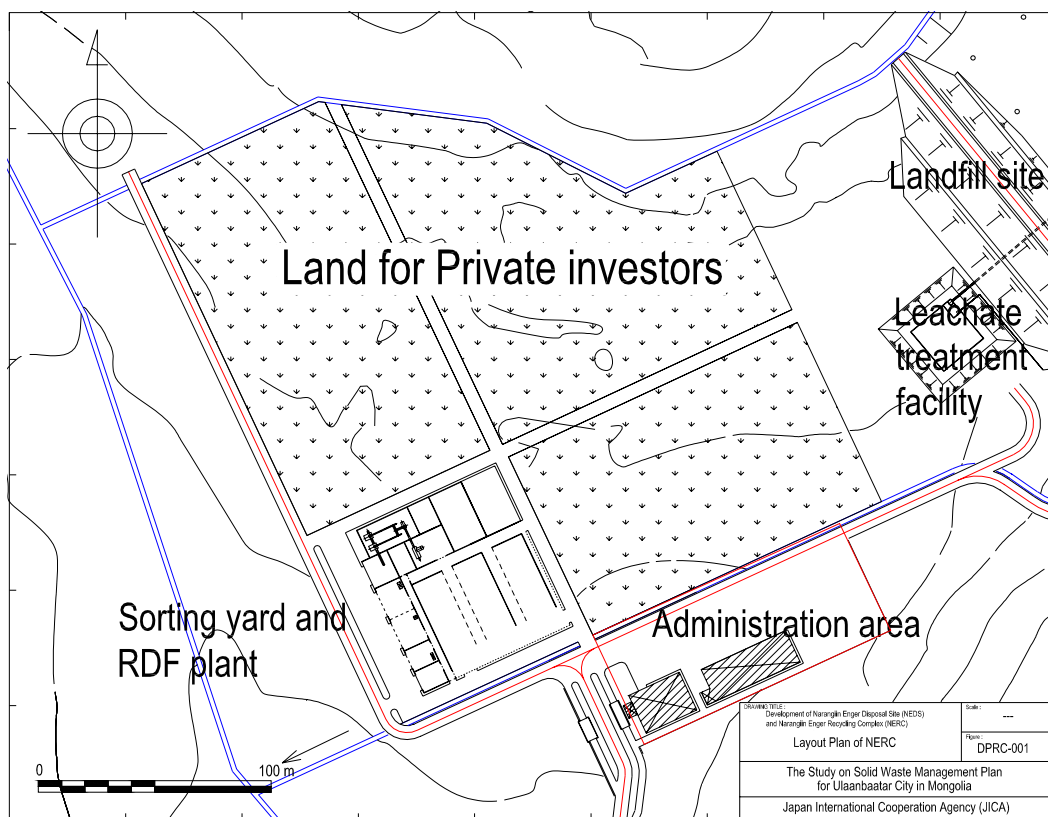


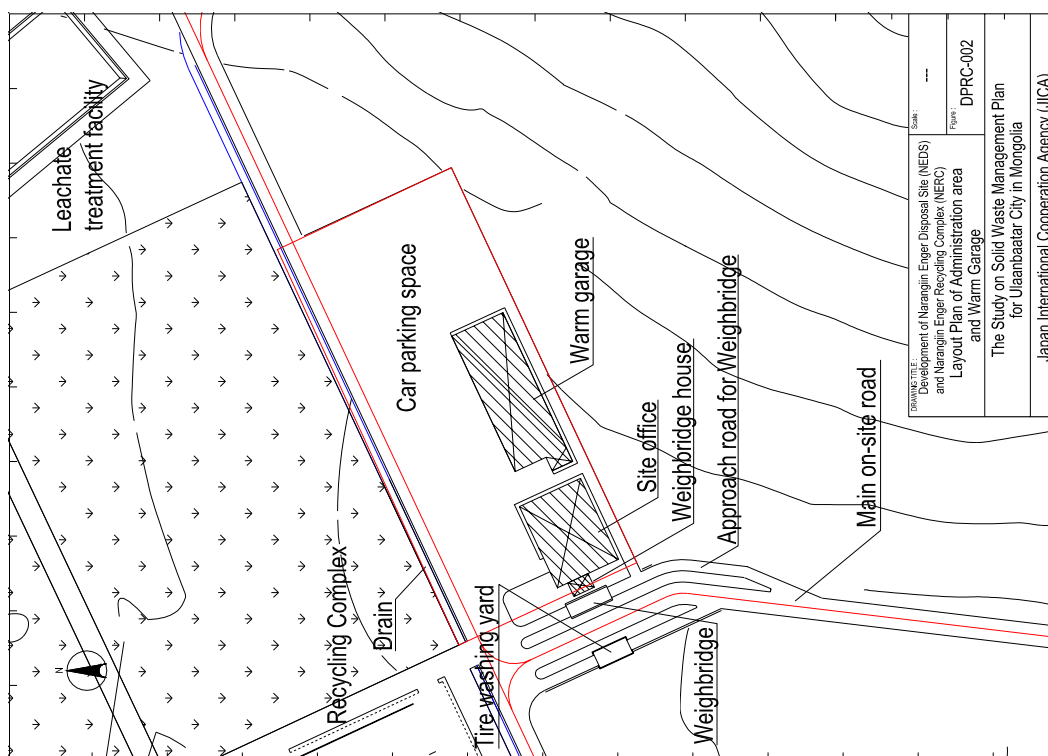






4. Development Plan of NERC (DPRC)





5. Reference Photos for Facilities of NERC (RPRC)



DRAWING TITLE: Development of Narangjin Enger Disposal Site (NEDS) and Narangjin Enger Recycling Complex (NERC) Reference Photo RDF Equipment with Hopper	Scale: 1/100
	RPRC-001
The Study on Solid Waste Management Plan for Ulaanbaatar City in Mongolia	
Japan International Cooperation Agency (JICA)	



DRAWING TITLE: Development of Narangjin Enger Disposal Site (NEDS) and Narangjin Enger Recycling Complex (NERC) Reference Photo Baling Machine for Plastic (PET bottles)	Scale: 1/100
	RPRC-002
The Study on Solid Waste Management Plan for Ulaanbaatar City in Mongolia	
Japan International Cooperation Agency (JICA)	



DRAWING TITLE:	Scale:
	RPRC-003
Development of Narangiin Enger Disposal Site (NEDS) and Narangiin Enger Recycling Complex (NERC)	
Reference Photo Compactor for Metals	
The Study on Solid Waste Management Plan for Ulaanbaatar City in Mongolia	
Japan International Cooperation Agency (JICA)	

3.3 Follow-up Survey of Public Hearing Meeting

3.3.1 First Public Hearing

a. Outline

Purpose

The survey aimed to grasp:

- How much participants understood the development plan
- How they evaluated the development plan

Survey method

The survey method was interview with questionnaire. Interviewers visited houses in order to make an interview.

Targets

The samples were selected randomly from the participant list of the first public hearing.

b. Result

The interview survey was conducted on September 7 and 10, 2006.

b.1 Samples

The total number of samples was 15, as shown below.

	Khoroo 3	Khoroo 4	total
Female	4	9	13
Male		2	2
total	4	11	15

Age	Khoroo 3	Khoroo 4	total
20 – 29		1	1
30 – 39		3	3
40 – 49	3	2	5
50 – 59		2	2
60 – 69		3	3
Unknown	1		1
total	4	11	15

b.2 Result of each question

Q1a Did you know the topic of the public hearing beforehand?

	Khoroo 3		Khoroo 4		total	
	count	col %	count	col %	count	col %
yes	3	75.0%	7	63.6%	10	66.7%
no	1	25.0%	4	36.4%	5	33.3%
Grand Total	4	100.0%	11	100.0%	15	100.0%

Q1b Did you know the development project of the new disposal site in Narangiin Enger?

	3		4		total	
	count	col %	count	col %	count	col %
yes	3	75.0%	7	63.6%	10	66.7%
no	1	25.0%	4	36.4%	5	33.3%
Grand Total	4	100.0%	11	100.0%	15	100.0%

Q1c How did you get the information on the new disposal site?

	3		4		total	
	count	col %	count	col %	count	col %
Conference at the UB Hotel	0	0.0%	3	42.9%	3	30.0%
Khoroo governor meeting	0	0.0%	4	57.1%	4	40.0%
Noots company meeting	3	100.0%		0.0%	3	30.0%
total	3	100.0%	7	100.0%	10	100.0%

Q1d What kind of things did you know, regarding the development plan? (multiple answers)

	3		4		total	
	count	col %	count	col %	count	col %
To improve the UCDS	1	33.3%	4	57.1%	5	50.0%
To implement the JICA Project on the new disposal site	1	33.3%	7	100.0%	8	80.0%
To carry out the Landfill operation	0	0.0%	1	14.3%	1	10.0%
To create working opportunities	2	66.7%	1	14.3%	3	30.0%
total	3	100.0%	7	100.0%	10	100.0%

Q2a Do you remember the content of the 1st public hearing?

	3		4		total	
	count	col %	count	col %	count	col %
Yes, I remember well	2	50.0%	5	45.5%	7	46.7%
Yes, but a little	0	0.0%	6	54.5%	6	40.0%
No, I don't remember	2	50.0%	0	0.0%	2	13.3%
total	4	100.0%	11	100.0%	15	100.0%

Q2b What kinds of topics were presented at the 1st public hearing? (free answer)

	3		4		total	
	count	col %	count	col %	count	col %
Background of the 1st public hearing	0	0.0%	5	50.0%	5	41.7%
Outline of the development plan of the disposal site	2	100.0%	7	70.0%	9	75.0%
Outline of the development plan of the recycling complex	0	0.0%	10	100.0%	10	83.3%
Outline of the EIA survey	0	0.0%	4	40.0%	4	33.3%
Question and answer	0	0.0%	1	10.0%	1	8.3%
others	0	0.0%	3	30.0%	3	25.0%
total	2	100.0%	10	100.0%	12	100.0%

Q3a "Background of the 1st Public Hearing" by MUB.
Do you remember his presentation?

	3		4		total	
	count	col %	count	col %	count	col %
Yes, I remember well	1	25.0%	4	36.4%	5	33.3%
Yes, but a little	1	25.0%	1	9.1%	2	13.3%
No, I don't remember	2	50.0%	6	54.5%	8	53.3%
total	4	100.0%	11	100.0%	15	100.0%

What did he talk? (free answer)

	3		4		total	
	count	col %	count	col %	count	col %
To improve the UCDS (weighbridge, fence and enclosing dam)	0	0.0%	3	60.0%	3	42.9%
To perform the landfill operation	0	0.0%	1	20.0%	1	14.3%
To stop the environment contamination	2	100.0%	1	20.0%	3	42.9%
The reason of Narangiin enger selected as a new disposal site	0	0.0%	1	20.0%	1	14.3%
To perform the project with an assistance of JICA	0	0.0%	1	20.0%	1	14.3%
To create working opportunities	0	0.0%	1	20.0%	1	14.3%
Total	2	100.0%	5	100.0%	7	100.0%

How do you evaluate the content of his presentation?

	3		4		total	
	count	col %	count	col %	count	col %
very easy to understand	2	100.0%	3	60.0%	5	71.4%
relatively easy to understand	0	0.0%	2	40.0%	2	28.6%
a little bit difficult to understand	0	0.0%	0	0.0%	0	0.0%
difficult to understand	0	0.0%	0	0.0%	0	0.0%
Total	2	100.0%	5	100.0%	7	100.0%

How about the method of presentation (presentation materials and the way of talking)

	3		4		total	
	count	col %	count	col %	count	col %
Good. It help me understand the content	2	100.0%	5	100.0%	7	100.0%
Neither good nor bad	0	0.0%	0	0.0%	0	0.0%

not good. lost concentration or it took time to understand	0	0.0%	0	0.0%	0	0.0%
Total	2	100.0%	5	100.0%	7	100.0%

Q3b "Outline of the development plan by MUB".
Do you remember his presentation?

	3		4		total	
	count	col %	count	col %	count	col %
Yes, I remember well	0	0.0%	1	9.1%	1	6.7%
Yes, but a little	1	25.0%	2	18.2%	3	20.0%
No, I don't remember	3	75.0%	8	72.7%	11	73.3%
total	4	100.0%	11	100.0%	15	100.0%

What did he talk? (free answer)

	3		4		total	
	count	col %	count	col %	count	col %
To improve UCDS and keep clean it in the following years	1	100.0%	0	0.0%	1	25.0%
To keep clean our living environment	0	0.0%	2	66.7%	2	50.0%
Three different project are in process	0	0.0%	1	33.3%	1	25.0%
The reason of Narangiin enger selected as a new disposal site	0	0.0%	1	33.3%	1	25.0%
Total	1	100.0%	3	100.0%	4	100.0%

How do you evaluate the content of his presentation?

	3		4		total	
	count	col %	count	col %	count	col %
very easy to understand	1	100.0%	1	33.3%	2	50.0%
relatively easy to understand	0	0.0%	1	33.3%	1	25.0%
a little bit difficult to understand	0	0.0%	1	33.3%	1	25.0%
difficult to understand	0	0.0%	0	0.0%	0	0.0%
Total	1	100.0%	3	100.0%	4	100.0%

How about the method of presentation (presentation materials and the way of talking)

	3		4		total	
	count	col %	count	col %	count	col %
Good. It help me understand the content	1	100.0%	3	100.0%	4	100.0%
Neither good nor bad	0	0.0%	0	0.0%	0	0.0%
not good. lost concentration, or it took time to understand	0	0.0%	0	0.0%	0	0.0%
Total	1	100.0%	3	100.0%	4	100.0%

Q3c Outline of the EIA Survey Plan by AGRAR
Do you remember his presentation?

	3		4		total	
	count	col %	count	col %	count	col %
Yes, I remember well	0	0.0%	5	45.5%	5	33.3%
Yes, but a little	2	50.0%	4	36.4%	6	40.0%
No, I don't remember	2	50.0%	2	18.2%	4	26.7%
total	4	100.0%	11	100.0%	15	100.0%

What did he talk? (free answer)

	3		4		total	
	count	col %	count	col %	count	col %
Measurements on reducing of environment contamination in the disposal site	0	0.0%	5	55.6%	5	45.5%
The impacts to environment	0	0.0%	6	66.7%	6	54.5%
Water and soil analyzes	0	0.0%	3	33.3%	3	27.3%
Landfill operation	2	100.0%	0	0.0%	2	18.2%
Total	2	100.0%	9	100.0%	11	100.0%

How do you evaluate the content of his presentation?

	3		4		total	
	count	col %	count	col %	count	col %
very easy to understand	2	100.0%	4	44.4%	6	54.5%
relatively easy to understand	0	0.0%	4	44.4%	4	36.4%
a little bit difficult to understand	0	0.0%	0	0.0%	0	0.0%
difficult to understand	0	0.0%	1	11.1%	1	9.1%
total	2	100.0%	9	100.0%	11	100.0%

How about the method of presentation (presentation materials and the way of talking)

	3		4		total	
	count	col %	count	col %	count	col %
good It help me understand the content	2	100.0%	9	100.0%	11	100.0%
Neither good nor bad	0	0.0%	0	0.0%	0	0.0%
not good./ lost concentration, or it took time to understand	0	0.0%	0	0.0%	0	0.0%
total	2	100.0%	9	100.0%	11	100.0%

Q4a Do you understand why a new disposal site is necessary?

	3		4		total	
	count	col %	count	col %	count	col %
Yes, I understand well	3	75.0%	9	81.8%	12	80.0%
Yes, but a little	1	25.0%	1	9.1%	2	13.3%
No, I cannot understand	0	0.0%	1	9.1%	1	6.7%
No, I don't remember	0	0.0%	0	0.0%	0	0.0%
total	4	100.0%	11	100.0%	15	100.0%

Q4b What are the main reasons? (free answer)

	3		4		total	
	count	col %	count	col %	count	col %
According to the starting the new disposal site considered as an appropriate one	0	0.0%	3	30.0%	3	21.4%
The new disposal site is free of contamination to environment	3	75.0%	4	40.0%	7	50.0%
Do need to change the disposal site location	1	25.0%	0	0.0%	1	7.1%
UCDS is going to full up soon	0	0.0%	3	30.0%	3	21.4%
Build sorting and recycling complex in the UCDS,perform the landfill operation in the new disposal site	0	0.0%	2	20.0%	2	14.3%
total	4	100.0%	10	100.0%	14	100.0%

Q4c Do you agree with these reasons?

	3		4		total	
	count	col %	count	col %	count	col %
Yes	4	100.0%	10	100.0%	14	100.0%
Yes, but to some extend	0	0.0%	0	0.0%	0	0.0%
No	0	0.0%	0	0.0%	0	0.0%
total	4	100.0%	10	100.0%	14	100.0%

Q5a Do you understand why a site in Narangiin Enger was selected as the project site?

	3		4		total	
	count	col %	count	count	col %	count
Yes, I understand well	2	50.0%	8	72.7%	10	66.7%
Yes, but a little	1	25.0%		0.0%	1	6.7%
No, I cannot understand	1	25.0%		0.0%	1	6.7%
No, I don't remember	0	0.0%	3	27.3%	3	20.0%
total	4	100.0%	11	100.0%	15	100.0%

Q5b What are the main reasons? (free answer)

	3		4		total	
	count	col %	count	count	col %	count
The new place is more preferable disposal site among selected ones and was by the study as a result	0	0.0%	3	37.5%	3	27.3%
Less expensive disposal site due to short distance to the city	3	100.0%	4	50.0%	7	63.6%
It is convenient to use because new disposal site be at close to UCDS	0	0.0%	1	12.5%	1	9.1%
Comparably big square in Narangiin Enger	0	0.0%	1	12.5%	1	9.1%
total	3	100.0%	8	100.0%	11	100.0%

Q5c Do you agree with the selection of the site?

	3		4		total	
	count	col %	count	count	col %	count
Yes	3	100.0%	8	100.0%	11	100.0%
Yes, but to some extend	0	0.0%	0	0.0%	0	0.0%
No	0	0.0%	0	0.0%	0	0.0%
total	3	100.0%	8	100.0%	11	100.0%

Q6a Do you understand what kind of place the final disposal site is?

	3		4		total	
	count	col %	count	count	col %	count
Yes, I understand it well	4	100.0%	8	72.7%	12	80.0%
Yes, I understand but a little	0	0.0%	2	18.2%	2	13.3%
No, I do not understand it	0	0.0%	1	9.1%	1	6.7%
total	4	100.0%	11	100.0%	15	100.0%

Q6b What kinds of operations will be conducted at the new disposal site in Narangiin Enger?

	3		4		total	
	count	col %	count	count	col %	count
Unloading waste (collection vehicles unload waste at a landfill area)	2	50.0%	4	40.0%	6	42.9%
Landfill operation (a bulldozer level the waste and cover it with soil)	3	75.0%	9	90.0%	12	85.7%
Compost production	3	75.0%	9	90.0%	12	85.7%
Leachate treatment (wastewater treatment)	1	25.0%	5	50.0%	6	42.9%
Construction of the next landfill area including excavation	2	50.0%	4	40.0%	6	42.9%
others	1	25.0%	1	10.0%	2	14.3%
total	4	100.0%	10	100.0%	14	100.0%

Q6c What kind of waste will be disposed of at the new disposal site?

	3		4		total	
	count	col %	count	count	col %	col %
All kinds of waste	2	50.0%	6	60.0%	8	57.1%
Non-recycle waste	2	50.0%	4	40.0%	6	42.9%
total	4	100.0%	10	100.0%	14	100.0%

Q7a Do you understand what the EIA survey is?

	3		4		total	
	count	col %	count	col %	count	col %
Yes	0	0.0%	3	27.3%	3	20.0%
Yes, but a little	0	0.0%	6	54.5%	6	40.0%
No	4	100.0%	2	18.2%	6	40.0%
total	4	100.0%	11	100.0%	15	100.0%

Q7b Could you explain what the EIA survey is? (free answer)

	3		4		total	
	count	col %	count	col %	count	col %
to keep clean an environment	0	0.0%	3	33.3%	3	33.3%
Take measurements according to result of soil and water analyzes	0	0.0%	1	11.1%	1	11.1%
Repair the access road	0	0.0%	1	11.1%	1	11.1%
To decrease environmental contamination and prevent from contamination and pollution	0	0.0%	3	33.3%	3	33.3%
no answer	0	0.0%	1	11.1%	1	11.1%
total	0	0.0%	9	100.0%	9	100.0%

What kind of activities are conducted?

	3		4		total	
	count	col %	count	col %	count	col %
To find out positive and negative impacts on enviroment	0	0.0%	2	22.2%	2	22.2%
To decrease environmental contamination and prevent from contamination and pollution	0	0.0%	3	33.3%	3	33.3%
Take measurements according to result of soil and water analyzes	0	0.0%	2	22.2%	2	22.2%
to keep clean an environment	0	0.0%	1	11.1%	1	11.1%
no answer	0	0.0%	2	22.2%	2	22.2%
total	0	0.0%	9	100.0%	9	100.0%

Q8a What kinds of environmental and social risks do you assume caused by disposal site?

	3		4		total	
	count	col %	count	col %	count	col %
underground water could be contaminated by leachate	0	0.0%	1	9.1%	1	6.7%
surface waster such as river and canal could be contaminated by leachate	0	0.0%	1	9.1%	1	6.7%

air pollution caused by fire	2	50.0%	8	72.7%	10	66.7%
air pollution by vehicles	0	0.0%	2	18.2%	2	13.3%
offensive odor	3	75.0%	6	54.5%	9	60.0%
Noise	0	0.0%	1	9.1%	1	6.7%
Breeding of vermin such as flies	3	75.0%	4	36.4%	7	46.7%
Traffic Jam	0	0.0%	2	18.2%	2	13.3%
Others	1	25.0%	1	9.1%	2	13.3%
Grand Total	4	100.0%	11	100.0%	15	100.0%

Q8b Regarding possible problems caused by the new disposal site, what are you concerned?

	3		4		total	
	count	col %	count	col %	count	col %
underground water could be contaminated by leachate	1	25.0%	1	9.1%	2	13.3%
offensive odor	0	0.0%	0	0.0%	0	0.0%
air pollution caused by fire	0	0.0%	1	9.1%	1	6.7%
Breeding of vermin such as flies	0	0.0%	0	0.0%	0	0.0%
water contamination	0	0.0%	1	9.1%	1	6.7%
Traffic Jam	0	0.0%	1	9.1%	1	6.7%
air pollution by vehicles	0	0.0%	1	9.1%	1	6.7%
others	0	0.0%	2	18.2%	2	13.3%
no problem	3	75.0%	6	54.5%	9	60.0%
total	4	100.0%	11	100.0%	15	100.0%

Q8c Among them, what are you concerned most?

	3		4		total	
	count	col %	count	col %	count	col %
underground water could be contaminated by leachate	1	100.0%	1	20.0%	2	33.3%
offensive odor	0	0.0%	0	0.0%	0	0.0%
air pollution caused by fire	0	0.0%	1	20.0%	1	16.7%
Breeding of vermin such as flies	0	0.0%	0	0.0%	0	0.0%
water contamination	0	0.0%	0	0.0%	0	0.0%
Traffic Jam	0	0.0%	1	20.0%	1	16.7%
air pollution by vehicles	0	0.0%	0	0.0%	0	0.0%
others	0	0.0%	2	40.0%	2	33.3%
total	1	100.0%	5	100.0%	6	100.0%

Q9a Did you understand countermeasures explained at the hearings?

	3		4		total	
	count	col %	count	col %	count	col %
Yes, I understand well	2	50.0%	6	54.5%	8	53.3%
Yes, but a little	1	25.0%	1	9.1%	2	13.3%
No	1	25.0%	4	36.4%	5	33.3%
total	4	100.0%	11	100.0%	15	100.0%

Q9b What kinds of countermeasures were explained at the hearings?

	3		4		total	
	count	col %	count	col %	count	col %
To install pipeline for leachate liquid	2	100.0%	4	50.0%	6	60.0%
Research on contamination rate	0	0.0%	4	50.0%	4	40.0%
To raise public consciousness on keeping clean surrounding environment	0	0.0%	1	12.5%	1	10.0%
cover by solid(landfill operation)	1	50.0%	0	0.0%	1	10.0%
others	2	100.0%	8	100.0%	10	100.0%

Q10a Which organization is responsible for the development plan?

	3		4		total	
	count	col %	count	col %	count	col %
MUB	1	25.0%	3	27.3%	4	26.7%
Local authorities (District or Khoroo)	1	25.0%	2	18.2%	3	20.0%
Nuut Co,	3	75.0%	5	45.5%	8	53.3%
JICA	4	100.0%	7	63.6%	11	73.3%
MOE	0	0.0%	0	0.0%	0	0.0%
I do not know	0	0.0%	3	27.3%	3	20.0%
total	4	100.0%	11	100.0%	15	100.0%

Q10b Which organization is responsible for the management and operation of the new disposal site?

	3		4		total	
	count	col %	count	col %	count	col %
MUB	2	50.0%	5	45.5%	7	46.7%
Local authorities (District or Khoroo)	2	50.0%	3	27.3%	5	33.3%
Nuut Co,	4	100.0%	7	63.6%	11	73.3%
JICA	3	75.0%	6	54.5%	9	60.0%
MOE	0	0.0%	0	0.0%	0	0.0%
I do not know	0	0.0%	2	18.2%	2	13.3%
total	4	100.0%	11	100.0%	15	100.0%

Q11a Do you know when the new disposal site start its operation?

	3		4		total	
	count	col %	count	col %	count	col %
yes	4	100.0%	10	90.9%	14	93.3%
no		0.0%	1	9.1%	1	6.7%
total	4	100.0%	11	100.0%	15	100.0%

Year when the new disposal site starts its operation:

	3		4		total	
	count	col %	count	col %	count	col %
2005	0	0.0%	3	30.0%	3	21.4%
2006	0	0.0%	3	30.0%	3	21.4%
2007	0	0.0%	1	10.0%	1	7.1%
2008	4	100.0%	3	30.0%	7	50.0%
total	4	100.0%	10	100.0%	14	100.0%

Q11b Do you know how long the new disposal site will be used?

	3		4		total	
	count	col %	count	col %	count	col %
yes	3	75.0%	6	54.5%	9	60.0%
no	1	25.0%	5	45.5%	6	40.0%
total	4	100.0%	11	100.0%	15	100.0%

For _____ years

	3		4		total	
	count	col %	count	col %	count	col %
10	1	33.3%	2	33.3%	3	33.3%
12	1	33.3%	0	0.0%	1	11.1%
20	1	33.3%	4	66.7%	5	55.6%
Total	3	100.0%	6	100.0%	9	100.0%

Q12a Do you accept the development plan of the new disposal site?

	3		4		total	
	count	col %	count	col %	count	col %
I accept the plan without conditions	3	75.0%	7	63.6%	10	66.7%
I accept the plan with conditions	1	25.0%	3	27.3%	4	26.7%
I do not accept the plan	0	0.0%	0	0.0%	0	0.0%
I do not know	0	0.0%	1	9.1%	1	6.7%
total	4	100.0%	11	100.0%	15	100.0%

Q12b What conditions do you set to accept the plan?

	3		4		total	
	count	col %	count	col %	count	col %
Necessary countermeasures are taken to prevent environment problems	1	100.0%	3	100.0%	4	100.0%
All the information on the plan is open to public	0	0.0%	2	66.7%	2	50.0%
MUB provides special programs to promote local economy	0	0.0%	0	0.0%	0	0.0%
The government tightens the regulation and control of disposal site	0	0.0%	0	0.0%	0	0.0%
The regular monitoring is conducted to control the disposal site operation	0	0.0%	0	0.0%	0	0.0%
others	0	0.0%	0	0.0%	0	0.0%
total	1	100.0%	3	100.0%	4	100.0%

b.3 Comments

- The Khoroo needs more working opportunities
- Need less pollution and clean environment in my Khoroo
- The Khoroo needs more working opportunities
- Need less pollution and clean environment in my Khoroo
- Need less pollution and clean environment in my Khoroo
- Haven't any opinion
- It is important not to force to follow new rule and damage our working condition for WPs in the UCDS
- It is important not to force to follow new rule and damage our working condition for WPs in the UCDS
- It is important that the pilot projects need to be implemented on time
- The pilot projects need to be completed as soon as possible.
- The pilot projects need to be completed as soon as possible.
- Haven't any opinion
- The access road requires repair and dust derived by collection haulage should be lowered
- It is important not to force to follow new rule and damage our working condition for WPs in the UCDS
- The access road requires repair and dust derived by collection haulage should be lowered

c. Findings

- Many respondents are confused with pilot project at the disposal site and the NEDS development plan.
- It seems that about half of respondents are working at UCDS (many of residents who live near the site of NEDS are waste pickers). They are concerned about the current pilot project more than the development plan of NEDS.
- Even though respondents reply that they remember or understand presentations, their understanding is very limited. (one respondent understood the content of the public hearing very well)
- Since they are living near UCDS, most of them understood what kind of place a final disposal site is and what kinds of problems could occur. But more than half of them were not concerned about possible problems. They are more interested in job opportunity.
- Most of respondents thought that JICA was responsible organization of the development plan.

3.3.2 Second Public Hearing

a. Outline

Purpose

The survey aimed to grasp:

- How much participants understood the development plan, compared to the time of the first hearing.
- How they evaluated the development plan

Survey method

The survey method was interview with questionnaire. Interviewers visited houses in order to make an interview.

During the interview survey, the interviewer encouraged the respondent to answer freely to multi-answer questions, rather than asking them to select appropriate answers from the lists. This made it possible for us to evaluate the level of their understanding more precisely.

Targets

The samples were selected randomly from the participant list of the first public hearing.

b. Result

The interview survey was conducted for 4 days from November 14 to November 19, 2006.

b.1 Samples

The total number of samples is 30. The distribution of samples by Khoroo, age, and sex is shown below.

	Khoroo 3	Khoroo 4	total
Female	10	12	22
Male	5	3	8
total	15	15	30

Age	Khoroo 3	Khoroo 4	total
20 – 29		3	3
30 - 39	2	1	3
40 – 49	3	4	7
50 – 59	3	5	8
60 – 69	4	1	5
70 – 79	3	1	4
total	15	15	30

The samples are also divided into two groups: (1) those who attended the first public hearing and (2) those who attend the hearing for the first time.

First Public Hearing	Khoroo 3	Khoroo 4	Total
Attended	2	5	7
Not attended	13	10	23
Total	15	15	30

b.2 Result of Each Question

(1) Before the second public hearing

The team prepared for invitation letters and asked Khoroo 3 & 4 to distribute them to all the targeted households. More than 80% of the respondents received invitation letters.

	Khoroo 3		Khoroo 4		total	
	coun	col%	coun	col%	coun	col%
I received	11	73.3%	14	93.3%	25	83.3%
Not received	4	26.7%	1	6.7%	5	16.7%
total	15	100.0%	15	100.0%	30	100.0%

A little more than half of the respondents knew something about the development plan before the hearing. Because of various activities conducted under the JICA project, the development plan was known widely in Khoroo 4 than in Khoroo 3.

Q1d Did you know anything about the development plan of the Narangiin Enger disposal site before?

	1 ¹⁾		2		total	
	coun	col%	coun	col%	coun	col%
I knew	6	85.7%	11	47.8%	17	56.7%
I did not know	1	14.3%	12	52.2%	13	43.3%
total	7	100.0%	23	100.0%	30	100.0%

	Khoroo 3		Khoroo 4		total	
	coun	col%	coun	col%	coun	col%
I knew	6	40.0%	11	73.3%	17	56.7%
I did not know	9	60.0%	4	26.7%	13	43.3%
total	15	100.0%	15	100.0%	30	100.0%

¹⁾ 1: those who attended the first public hearing.

2: those who did not attend the first public hearing.

More than 60% of the respondents who knew something about the development plan recognized the plan of the new disposal site at Narangiin Enger. Five of six respondents who attended the public hearing thought that the development plan was the JICA project. (in total, 41.2%)

Q1e What kinds of things did you know, regarding the development plan?

	1		2		total	
	coun	col%	coun	col%	coun	col%
To development New disposal site at Narangiin Enger	4	66.7%	7	63.6%	11	64.7%
3R of waste	0	0.0%	3	27.3%	3	17.6%
To implement the JICA Project on the new disposal site	5	83.3%	2	18.2%	7	41.2%
To improve problems caused by waste	1	16.7%	2	18.2%	3	17.6%
To create working opportunities	0	0.0%	1	9.1%	1	5.9%
total	6	100.0%	11	100.0%	17	100.0%

(2) About the Second Public Hearing (overview)

All the respondents remembered well or a little bit about the content of the second hearing.

	Khoroo 3		Khoroo 4		total	
	coun	col%	coun	col%	coun	col%
Yes, I remember well	6	40.0%	9	60.0%	15	50.0%
Yes, but a little	9	60.0%	6	40.0%	15	50.0%
No, I don't remember	0	0.0%	0	0.0%	0	0.0%
total	15	100.0%	15	100.0%	30	100.0%

However, the number of those who mentioned the topic of EIA was only 40%, while all the respondents somehow remembered the topic of the development plan.

Q2b What kinds of topics were presented at the 2nd public hearing?

	1		2		total	
	coun	col%	coun	col%	coun	col%
Outline of the development plan of the disposal site	7	100.0%	23	100.0%	30	100.0%
Outline of the development plan of the recycling complex	6	85.7%	19	82.6%	25	83.3%
Result of EIA survey	4	57.1%	8	34.8%	12	40.0%
Mitigation measures	2	28.6%	1	4.3%	3	10.0%
Question & Answer	2	28.6%	4	17.4%	6	20.0%
others	0	0.0%	2	8.7%	2	6.7%
total	7	100.0%	23	100.0%	30	100.0%

A series of questions about the location and schedule of the hearing was asked in order to know the most appropriate day and time for local people. All the respondents thought that the location of the hearing, School No.65 in Khoroo 3, was convenient for them. Regarding the schedule of the public hearing, local people preferred that a local meeting was organized during the day time at weekend.

Preferable Day	total		Preferable Time	total	
	coun	col%		coun	col%
I had no problem to have a meeting on weekday.	1	3.3%	during day time	19	63.3%
I prefer to have a meeting at weekend.	19	63.3%	in the evening	3	10.0%
The meeting should be organized at weekend.	10	33.3%	either during day time or in the evening	8	26.7%
total	30	100.0%	total	30	100.0%

Regarding the duration of the hearing, more than 70% of the respondents thought it was appropriate. Most of them thought the scope of the topics and the content of presentation materials were appropriate.

(3) Topics of the Second Public Hearing

There were two main topics: (1) Outline of the development plan of the disposal site and recycling complex and (2) Result of the EIA survey. At the interview survey, the team tried

to grasp how much interviewees understood these topics and how they evaluated the presentation methods, before asking their opinions about the development plan.

1) Outline of the development plan

Since this hearing was second time and the team had several opportunities to explain about the development plan in Khoroo 4, most of the respondents, in particular all the respondents in Khoroo 4, answered that they remembered the content of the presentation either well or a little bit.

The result of the interview survey, however, revealed that about half of the respondents in Khoroo 4 still confused with the pilot project at the Ulaan Chuluut Disposal site and the development plan.

Q5a What did the presenter speak?

	Khoroo 3		Khoroo 4		total	
	coun	col%	coun	col%	coun	col%
Development and operation of New disposal site at Narangiin Enger	9	69.2%	11	73.3%	20	71.4%
To build recycling complex and facilities	7	53.8%	5	33.3%	12	42.9%
The reason of Narangiin enger selected as a new disposal site	1	7.7%	1	6.7%	2	7.1%
To improve the UCDS	2	15.4%	7	46.7%	9	32.1%
total	13	100.0%	15	100.0%	28	100.0%

Most of respondents evaluated that the content of the presentation was very or relatively easy to understand.

Q5a How do you evaluate the content of his presentation?

	Khoroo 3		Khoroo 4		total	
	coun	col%	coun	col%	coun	col%
very easy to understand	7	53.8%	4	26.7%	11	39.3%
relatively easy to understand	5	38.5%	9	60.0%	14	50.0%
a little bit difficult to understand	1	7.7%	2	13.3%	3	10.7%
difficult to understand	0	0.0%	0	0.0%	0	0.0%
total	13	100.0%	15	100.0%	28	100.0%

2) Result of EIA survey

Twenty-one respondents (70%) answered that they remembered the presentation about the presentation well or a little. The items which 21 respondents mentioned as contents of the presentation are shown below.

Q5b What did the presenter tell?

	1		2		total	
	coun	col%	coun	col%	coun	col%
Result of EIA	1	16.7%	6	40.0%	7	33.3%
About contamination caused by disposal site	1	16.7%	9	60.0%	10	47.6%
To prevent of contamination at new disposal site	2	33.3%	3	20.0%	5	23.8%
To find out positive and negative impacts on environment	2	33.3%	3	20.0%	5	23.8%
total	6	100.0%	15	100.0%	21	100.0%

Q5b How do you evaluate the content of his presentation?

	1		2		total	
	coun	col%	coun	col%	coun	col%
very easy to understand	1	16.7%	5	33.3%	6	28.6%
relatively easy to understand	4	66.7%	5	33.3%	9	42.9%
a little bit difficult to understand	0	0.0%	4	26.7%	4	19.0%
difficult to understand	1	16.7%	1	6.7%	2	9.5%
total	6	100.0%	15	100.0%	21	100.0%

Even though 7 people cited “Result of EIA”, another question about the EIA in the latter half revealed that only one of them understood what is EIA well. In general, it can be said that the

level of understanding about the EIA survey itself was not high enough, even though 15 people thought that the presentation was easy to understand.

(4) Level of Understanding

1) Development Plan

About the disposal site

The result shows that respondents in Khoroo 4 understood the disposal site and its operation better than those in Khoroo 3. It is the effect of pilot projects in Khoroo 4.

Q7a Do you understand what kinds of facilities would be constructed?

	Khoroo 3		Khoroo 4		total	
	coun	col%	coun	col%	coun	col%
Yes, I understand well	11	73.3%	10	66.7%	21	70.0%
Yes, but a little	3	20.0%	2	13.3%	5	16.7%
No, I cannot understand	1	6.7%	3	20.0%	4	13.3%
total	15	100.0%	15	100.0%	30	100.0%

Q7b What kinds of facilities would be constructed?

	Khoroo 3		Khoroo 4		total	
	coun	col%	coun	col%	coun	col%
Sorting factory	10	71.4%	11	91.7%	21	80.8%
Recycling factory	10	71.4%	7	58.3%	17	65.4%
Storage	1	7.1%		0.0%	1	3.8%
Leachate treatment and gas removal facilities	1	7.1%	1	8.3%	2	7.7%
Staff living apartments	3	21.4%	2	16.7%	5	19.2%
Facilities (fence, garage, bank and drainage system)	2	14.3%	5	41.7%	7	26.9%
total	14	100.0%	12	100.0%	26	100.0%

Q8a Do you understand what the sanitary landfill operation is?

	Khoroo 3		Khoroo 4		total	
	coun	col%	coun	col%	coun	col%
Yes, I understand well	1	6.7%	6	40.0%	7	23.3%
Yes, but a little	6	40.0%	6	40.0%	12	40.0%
No, I can't understand	8	53.3%	3	20.0%	11	36.7%
total	15	100.0%	15	100.0%	30	100.0%

Q8b What is the landfill operation?

	Khoroo 3		Khoroo 4		total	
	coun	col%	coun	col%	coun	col%
Landfill and cover by soil	1	14.3%	9	75.0%	10	52.6%
Sorting and recycling a waste	1	14.3%	2	16.7%	3	15.8%
To decrease contamination caused by waste	4	57.1%	1	8.3%	5	26.3%
Leachate treatment	0	0.0%	1	8.3%	1	5.3%
Health and Hygienic	2	28.6%	1	8.3%	3	15.8%
total	7	100.0%	12	100.0%	19	100.0%

Regarding the year of starting operation and the duration of the operation, the majority of the respondents did not know them.

2) Result of the EIA Survey

It was difficult for the respondents to understand the concept and content of the EIA survey at the hearing. The survey result showed that few people could understand the EIA survey and its result fully. However, most of them already had a clear image of problems caused by the disposal site, thanks to the Ulaan Chuluut disposal site near their houses, as shown in table below.

Q10a What kinds of environmental and social risks do you assume caused by disposal site?

	Khoroo 3		Khoroo 4		total	
	coun	col%	coun	col%	coun	col%
Underground water could be contaminated by leachate	2	13.3%	1	6.7%	3	10.0%
Surface water such as river and canal	8	53.3%	7	46.7%	15	50.0%

could be contaminated by leachate						
Air pollution caused by fire	13	86.7%	14	93.3%	27	90.0%
Air pollution by vehicles	0	0.0%		0.0%	0	0.0%
Offensive odor	7	46.7%	14	93.3%	21	70.0%
Noise	0	0.0%		0.0%	0	0.0%
Breeding of vermin such as flies	6	40.0%	5	33.3%	11	36.7%
Traffic Jam	0	0.0%		0.0%	0	0.0%
Others	5	33.3%	5	33.3%	10	33.3%
Grand Total	15	100.0%	15	100.0%	30	100.0%

Although they understand risks of the disposal site such as air pollution caused by fires and odor, 80% of the respondents replied that they were not concerned about these possible problems.

Q10b Regarding possible problems caused by the new disposal site, what are you concerned?

	3khoroo		4khoroo		total	
	coun	col%	coun	col%	coun	col%
underground water could be contaminated by leachate	0	0.0%	1	6.7%	1	3.3%
offensive odor	0	0.0%	0	0.0%	0	0.0%
air pollution caused by fire	1	6.7%	0	0.0%	1	3.3%
Breeding of vermin such as flies	0	0.0%	0	0.0%	0	0.0%
water pollution	0	0.0%	0	0.0%	0	0.0%
Traffic Jam	0	0.0%	0	0.0%	0	0.0%
air pollution by vehicles	1	6.7%	1	6.7%	2	6.7%
Others	1	6.7%	1	6.7%	2	6.7%
no problem	12	80.0%	12	80.0%	24	80.0%
Grand Total	15	100.0%	15	100.0%	30	100.0%

3) Outline of the project

Project Owner

Most of the respondents thought the JICA is a responsible organization of the development project.

Q12a Which organization is responsible for the development plan?

	Khoroo 3		Khoroo 4		total	
	coun	col%	coun	col%	coun	col%
MUB	4	26.7%	7	46.7%	11	36.7%
Local authorities (Duureg or Khoroo)	0	0.0%	2	13.3%	2	6.7%
Nuuts Co,	3	20.0%	8	53.3%	11	36.7%
JICA	12	80.0%	14	93.3%	26	86.7%
MOE	0	0.0%		0.0%	0	0.0%
I do not know	2	13.3%		0.0%	2	6.7%
Grand Total	15	100.0%	15	100.0%	30	100.0%

Q12b Which organization is responsible for the management and operation of the new disposal site?

	Khoroo 3		Khoroo 4		total	
	coun	col%	coun	col%	coun	col%
MUB	5	33.3%	4	26.7%	9	30.0%
Local authorities (Duureg or Khoroo)	0	0.0%	2	13.3%	2	6.7%
Nuuts Co,	4	26.7%	10	66.7%	14	46.7%
JICA	6	40.0%	8	53.3%	14	46.7%
MOE	2	13.3%	0	0.0%	2	6.7%
I do not know	2	13.3%	2	13.3%	4	13.3%
Grand Total	15	100.0%	15	100.0%	30	100.0%

(5) Opinions about the development plan

All but two respondents agree with the development plan without any conditions. The other 2 person agree with the plan with conditions.

Q14a Do you accept the development plan of the new disposal site?

	3khoroo		4khoroo		total	
	coun	col%	coun	col%	coun	col%
I accept the plan without conditions	13	86.7%	15	100.0%	28	93.3%
I accept the plan with conditions	2	13.3%		0.0%	2	6.7%
I do not accept the plan	0	0.0%		0.0%	0	0.0%
I do not know	0	0.0%		0.0%	0	0.0%
Grand Total	15	100.0%	15	100.0%	30	100.0%

Q14b What conditions do you set to accept the plan?

	3khoroo		total	
	coun	col%	coun	col%
Necessary countermeasures are taken to prevent environment problems	1	100%	1	50.0%
All the information on the plan is open to public	1	100%	1	50.0%
MUB provides special programs to promote local economy	0	0.0%	0	0.0%
The government tightens the regulation and control of disposal site	0	0.0%	0	0.0%
The regular monitoring is conducted to control the disposal site operation	0	0.0%	0	0.0%
others	0	0.0%	0	0.0%
total	1	100%	2	100%

(6) Comments

Seven respondents made the following comments at the end of their interview survey.

Need to pave the access road	4
to assess contamination by new disposal site before build recycling complex	1
I hope that the new disposal site would create working opportunities	1
Thanks for your project	1

b.3 Findings

- In Khoroo 4, a majority of residents knew about the development plan before the second public hearing, while there were still many people who did not know it in Khoroo 3.
- Participants from Khoroo 4 understood about landfill operation better than those from Khoroo 3. It can be said that the pilot projects in Khoroo 4 raised the level of their understanding.
- It seemed still difficult for most of the participants to understand correctly about the the EIA survey and its result. However, most of them recognized well possible problems caused by the new disposal site due to existing disposal site at Ulaan Chuluut.
- More than 80% of the respondents thought that JICA was a responsible organization of the development plan, regardless that MUB took an initiative at the hearing.
- Basically, all the respondents agreed with the development plan, although they recognized the risks of the disposal site. It is probably because they believed that support from JICA could prevent or mitigate these problems. Moreover, they expected the benefits of the development plan such as the pavement of the access road and job creations.

3.3.3 Third Public Hearing

a. Outline

Purpose

The survey aimed to grasp:

- How much the level of understanding of local residents was deepened, as three public hearings were organized.
- How they evaluated the development plan

Survey method

The survey method was interview with questionnaire. Interviewers visited houses in order to make an interview.

Targets

The samples were selected randomly from the participant list of the first public hearing.

b. Result

The interview survey was conducted on June 11, 14, 17, and 18 (for 4 days).

b.1 Samples

Forty samples were selected randomly based on the attendant list, but some of the samples could not be reached because of their absence, wrong address, and so on. The number of the final valid samples was 25, and the breakdown of the samples by Khoroo is shown below.

Age	Khoroo3	Khoroo4	total
30s	4	2	6
40s	4	4	8
50s	6		6
60s	2	1	3
70s		2	2
total	16	9	25

	Khoroo3	Khoroo4	total
Female	13	5	18
Male	3	4	7
total	16	9	25

About the half of respondents attended the public hearing for the first time.

b.2 Result of Each Question

1. Publicity of the development plan

Thirteen (13) respondents out of 25 attended previous public hearings. The number of respondents who attended previous hearings is summarized below.

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
attended previous hearings	8	50.0%	5	55.6%	13	52.0%
attended 3 rd hearings for the first time	8	50.0%	4	44.4%	12	48.0%
total	16	100.0%	9	100.0%	25	100.0%

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
First public hearing only	3	37.5%			3	23.1%
Second public hearing only			1	20.0%	1	7.7%
Both first and second public hearing	5	62.5%	4	80.0%	9	69.2%
total	8	100.0%	5	100.0%	13	100.0%

To those who attended the previous hearings, a question about the topics of the two previous hearings were asked. Some respondents were confused the development plan with a pilot project at the UCDS.

Q1-3 What kinds of topics were explained at these previous hearing?

First Public Hearing (12 respondents)	
To implement the JICA project and develop new disposal site	6
Improvement of the UCDS	5
Landfill operation and cover by soil	1
Contamination caused by waste	3
The reason of Narangiin enger selected as a new disposal site	1

Second Public Hearing (10 respondents)	
To develop New disposal site at Narangiin Enger	8
Improvement of the UCDS	3
To construct the Recycling Complex and Facilities	3

In order to grasp how much local residents recognized the development plan, Q2-1 was asked to all the respondents. It can be said that the majority of local residents recognized the development plans.

Q2-1 Did you know the development plan of final disposal site and recycling complex before you attended the 3rd public hearing?

	Attended previous hearings		Attended 3 rd one for the first time		total	
	Count	Col	Count	Col	Count	Col
Yes	13	81.3%	8	88.9%	21	84.0%
No	3	18.8%	1	11.1%	4	16.0%
total	16	100.0%	9	100.0%	25	100.0%

In order to know how much local residents distinguish the NEDS and NERC development plans, Q3-1 was asked to all the respondents. Around 70% of the respondents somehow could distinguish the two development plans.

Q3-2 In the first presentation, two development plans were explained. What kinds of development plan were explained at the hearing?

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
can mention both the NEDS and NERC development plans	11	68.8%	7	77.8%	18	72.0%
can mention only NEDS plan	1	6.3%	2	22.2%	3	12.0%
can mention only NERC plan	1	6.3%			1	4.0%
don't remember the contents of the hearing	3	18.8%			3	12.0%
total	16	100.0%	9	100.0%	25	100.0%

2. Level of Understanding of Development Plan

(1) NEDS development plan

In this section, only those who remembered the content of the NEDS development plan were the target of the questions.

At the hearings, the outline of a final disposal site was always explained in order to make participants understand the development plan of the NEDS. In order to grasp how much respondents understood final disposal of waste, several questions were asked.

Q4-1 Do you understand what the final disposal site is?

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
Yes, I understand it well	8	66.7%	4	44.4%	12	57.1%
Yes, I understand but a little	3	25.0%	5	55.6%	8	38.1%
No, I do not understand it	1	8.3%		0.0%	1	4.8%
total	12	100.0%	9	100.0%	21	100.0%

Those who replied that they understood a final disposal site were continued to be asked the following questions. In these questions, interviewees were required to answer freely, rather than selecting answers, so that their level of understanding can be made clear.

It can be said that most of the respondents understood the basic functions of the disposal site.

Q4-2 What kinds of operations will be conducted at the new disposal site at NE?

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
collection vehicles unload waste at a landfill area	10	83.3%	9	100.0%	19	90.5%
a bulldozer level the waste and cover it with soil	9	75.0%	8	88.9%	17	81.0%
Leachate treatment			2	22.2%	2	9.5%

The level of their understanding was further examined by the Q4-4 through Q4-7.

According to the result of Q4-4, more than 70% of the respondents replied that they did not assume any social and environmental risks.

Q4-4 What kinds of environmental and social risks do you assume caused by NEDS?

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
I do not assume any risks	9		6	66.7%	15	71.4%
underground water could be contaminated by leachate	1	8.3%	1	11.1%	2	9.5%
surface water such as river could be contaminated by leachate	1	8.3%			1	4.8%
air pollution caused by fire	1	8.3%	1	11.1%	2	9.5%
air pollution by vehicles			1	11.1%	1	4.8%
offensive odor						
Noise			1	11.1%	1	4.8%
Breeding of vermin such as flies						
Traffic Jam			1	11.1%	1	4.8%

Considering their level of understanding of the possible risks and prevention measures as shown in the result of Q4-6 and 4-7, however, it can be said that due to the limited knowledge some of respondents underestimated possible risks.

Q4-6 Did you understand countermeasures explained at the hearings?

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
Yes, I understand well	2	18.2%	1	11.1%	3	15.0%
Yes, but a little	4	36.4%	4	44.4%	8	40.0%
No, I don't understand	4	36.4%	2	22.2%	6	30.0%
I don't remember	1	9.1%	2	22.2%	3	15.0%
total	11	100.0%	9	100.0%	20	100.0%

The result of Q4-6 was cross-sectionally analyzed, according to the responses to the questions about possible risks.

	assumed no risks		assumes some risks		total	
	Count	Col	Count	Col	Count	Col
Yes, I understand well	2	13.3%	1	20.0%	3	15.0%
Yes, but a little	7	46.7%	1	20.0%	8	40.0%
No, I don't understand	3	20.0%	3	60.0%	6	30.0%
I don't remember	3	20.0%			3	15.0%
total	15	100.0%	5	100.0%	20	100.0%

Q4-7 What kinds of countermeasures were explained at the hearings?

Water pollution Prevention Measures	no risks	some risks	total
The leachate collection pipe will be installed	5	1	6
The leachate pond is installed	1		1

Fire and Air Pollution Prevention Measures	no risks	some risks	total
waste is covered with soil	1	2	3

Breeding of Vermin Prevention Measures	no risks	some risks	total
Insecticide is sprinkled	1	0	1
Wastes will be covered by soil	1	0	1

Plastic Waste Scattering Prevention Measures	no risks	some risks	total
Moveable fence will be built at the disposal site	4	1	5
Plastic bags will be sorted and moved to Recycling Complex and used for RDF	1	1	2
Plastic bags will be burned		1	1
Plastic bags will be covered by soil	1	1	1

(2) NERC Development Plan

Q5-1 Do you understand what the recycling complex is?

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
Yes, I understand it well	7	58.3%	4	57.1%	11	57.9%
Yes, I understand but a little	5	41.7%	3	42.9%	8	42.1%
total	12	100.0%	7	100.0%	19	100.0%

Q5-2 What kinds of operations will be conducted at the recycling complex at NE?

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
to sort waste at the sorting yard	12	100.0%	7	100.0%	19	100.0%
to produce RDF	4	33.3%	4	57.1%	8	42.1%

Q5-3 What kinds of environmental and social risks do you assume caused by NERC?

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
I do not assume any risks	10	83.3%	7	100.0%	17	89.5%
Noise/vibration						
Air pollution from the RDF production process	1	8.3%			1	5.3%
offensive odor	1	8.3%			1	5.3%

All the respondents recognized the sorting yard, while their understanding of the RDF facilities seems limited.

(3) Responsible Organization of the Development Project

The majority of the respondents still consider JICA the main responsible organization of the development project, as shown in the result of Q6-1 and 6-2, even though the team has been emphasizing the role of MUB.

The large presence of JICA in their mind might be one of reasons why many respondents did not assume any risks from the new disposal site.

Q6-1 Which organizations are responsible for the development plan? (Multiple answers)

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
MUB	3	18.8%	1	11.1%	4	16.0%
Local authorities		0.0%	2	22.2%	2	8.0%
Nuut Co	1	6.3%	1	11.1%	2	8.0%
JICA	12	75.0%	8	88.9%	20	80.0%
MOE						
I do not know	2	12.5%			2	8.0%

Which organization is the primary responsible organization? (to select one organization)

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
MUB	1	6.3%			1	4.0%
Local authorities			1	11.1%	1	4.0%
Nuut Co	1	6.3%			1	4.0%
JICA	11	68.8%	8	88.9%	19	76.0%
no response	3	18.8%			3	12.0%
total	16	100.0%	9	100.0%	25	100.0%

Regarding the responsible organization for operating and managing the new disposal site, nobody selected the Nuut. Co. as the main responsible organization.

Q6-2 Which organization is responsible for the management and operation of NEDS? (Multiple answers)

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
MUB	7	43.8%	7	77.8%	14	56.0%
Local authorities			1	11.1%	1	4.0%
Nuut Co			2	22.2%	2	8.0%
JICA	9	56.3%	3	33.3%	12	48.0%
MOE	2	12.5%			2	8.0%
I do not know	2	12.5%			2	8.0%

Which organization is the primary responsible organization? (to select one organization)

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
MUB	4	25.0%	7	77.8%	11	44.0%
Local authorities						
Nuut Co						
JICA	7	43.8%	2	22.2%	9	36.0%
MOE	2	12.5%			2	8.0%
no response	3	18.8%			3	12.0%
total	16	100.0%	9	100.0%	25	100.0%

3. Opinions about the Development Plan

All the respondents were asked their opinions about the development plan of both NEDS and NERC.

(1) NEDS Development Plan

Q8-1 Location of NEDS:

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
It is most appropriate.	11	68.8%	6	66.7%	17	68.0%
It is appropriate to some extent	2	12.5%	2	22.2%	4	16.0%
It is not appropriate	3	18.8%	1	11.1%	4	16.0%
total	16	100.0%	9	100.0%	25	100.0%

Q8-2 Why do you think the location is not appropriate?

	Khoroo 3	Khoroo 4	total
located on the windward side of Ulaanbaatar city.	2	1	3
too close to the city	1		1

Q8-3 Facilities

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
Necessary facilities are planned to be installed	15	93.8%	8	88.9%	23	92.0%
Necessary facilities are planned to be installed to some extent						
Some necessary facilities are lacking.			1	11.1%	1	4.0%
I do not know	1	6.3%		0.0%	1	4.0%
total	16	100.0%	9	100.0%	25	100.0%

Q8-5 Pollution prevention measures

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
Pollution prevention measures are enough.	14	87.5%	8	88.9%	22	88.0%
Pollution prevention measures are enough to some extent.	1	6.3%			1	4.0%
Pollution prevention measures are not enough.						
I do not know	1	6.3%	1	11.1%	2	8.0%
total	16	100.0%	9	100.0%	25	100.0%

Q8-7 Measures to support waste pickers

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
Measures are enough.	16	100.0%	8	88.9%	24	96.0%
Measures are enough to some extent.			1	11.1%	1	4.0%
Measures are not enough.						
I do not know						
total	16	100.0%	9	100.0%	25	100.0%

Except the location of the NEDS, most of the respondents agree with the development plan. Some of them were concerned about the location of the disposal site, which is located on the windward of the city center.

(2) NERC Development Plan

Q9-1 Sorting Yard

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
It is a necessary facility	16	100.0%	9	100.0%	25	100.0%
It is a necessary facility to some extent.						
It is not necessary						
I do not know						
total	16	100.0%	9	100.0%	25	100.0%

Q9-2 RDF Production

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
It is a necessary facility	15	93.8%	9	100.0%	25	100.0%
It is a necessary facility to some extent.						
It is not necessary						
I do not know						
total	16	100.0%	9	100.0%	25	100.0%

4. Conclusions about the Development Plan

Q10-1 Do you accept the development plan of NEDS?

	Khoroo 3		Khoroo 4		total	
	Count	Col	Count	Col	Count	Col
I accept the plan without conditions	14	87.5%	8	88.9%	22	88.0%
I accept the plan with conditions	2	12.5%	1	11.1%	3	12.0%
I do not accept the plan						
I do not know						
total	16	100.0%	9	100.0%	25	100.0%

Q10-2 What conditions do you set to accept the plan?

	Khoroo 3	Khoroo 4	total
Necessary countermeasures are taken to prevent environment problems	2	1	3
All the information on the plan is open to public	2		2
MUB provides special programs to promote local economy	1		1
The government tightens the regulation and control of disposal site	1		1
The regular monitoring is conducted to control the disposal site operation	1		1

Q10-3 Do you accept the development plan of NERC?

	Khoroo 3		Khoroo 4		total	
I accept the plan without conditions	14	87.5%	8	88.9%	22	88.0%
I accept the plan with conditions	2	12.5%	1	11.1%	3	12.0%
I do not accept the plan						
I do not know						
total	16	100.0%	9	100.0%	25	100.0%

Q10-4 What conditions do you set to accept the plan?

	Khoroo 3	Khoroo 4	total
Necessary countermeasures are taken to prevent environment problems	1	1	2
All the information on the plan is open to public	1		1
MUB provides special programs to promote local economy	1		1
The government tightens the regulation and control of disposal site	1		1
The regular monitoring is conducted to control the disposal site operation	1		1

Basically, the respondents agreed with both the NEDS and NERC development plans.

The level of their understanding of the disposal site, however, is still limited, and it is better for MUB and the study team to carefully interpret this result.

5. Comments from interviewees

- need to solve the WP's issue at the disposal site
- need to collect recyclables from local households. If someone buys from us, we will keep recyclables until this person come.
- I appreciate for the development plan.
- It is good if you implement your project according to presentation of PH
- I want NEDS and NERC constructed as soon as possible.
- I think that it is better to cover waste with black soil, because this makes it easier to plant trees
- If it is possible, need to fill ravines
- It is good, if you will construct NEDS and NERC as soon as possible.
- Khoroo staff should be involved actively in meetings and they have to inform local residents of meetings.
- need to expand area of the buffer zone .

c. Findings

The main findings are summarized below.

- Even though some respondents were still confused with the development plan of NEDS and the pilot project at the UCDS, the majority of respondents recognized the development plan.
- It can be said that most of the respondents understood the basic functions of the disposal site. It can be attributed to various activities conducted under the JICA study.
- Even though respondents know the problems at the UCDS, more than 70% of the respondents replied that they did not assume any social and environmental risks.

- Regarding the NERC development plan, all the respondents recognized the sorting yard, while their understanding of the RDF facilities seems limited.
- Eighty percent of the respondents still consider JICA the main responsible organization of the development project, even though MUB took an initiative at the hearing. This might be one of main reasons why many respondents did not assume any risks from the new disposal site.
- Regarding the responsible organization for operating and managing the new disposal site, nobody selected the Nuut. Co. as the main responsible organization.
- Except the location of the NEDS, most of the respondents agree with the development plan. Some of them were concerned about the location of the disposal site, which is located on the windward of the city center.
- Basically, the respondents agreed with both the NEDS and NERC development plans.
- The level of their understanding of the disposal site, however, is still limited but deepened.