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**Support to Prison Reform in the Kyrgyz Republic**  
**Поддержка реформы пенитенциарной системы в Кыргызской Республике**  
**Кыргыз Республикасында пенитенциардык тутумдун реформасын колдоо**

**TECHNICAL ASSESSMENT**



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## **1. Introduction.**

### **1.1 Background of the assignment.**

The prison system of Kyrgyzstan faces many of the challenges faced by other former Soviet Union republics, which include very poor material conditions, difficulties faced in separating and controlling the prison population, acute overcrowding, breakdown of prison industries and lack of prison staff training, which corresponds to the needs of a modern, civil prison system. Despite some efforts to improve its financing, the prison administration remains desperately under-funded. Poor pay and dangerous working conditions make it hard to attract qualified staff to the service. Above that violence among prisoners is a major concern. Provision of adequate healthcare in prisons is a serious challenge, and tuberculosis (TB) among prisoners is widespread. The spread of infectious disease is exacerbated by the very poor living conditions, especially sanitary facilities. The International Committee of the Red Cross (ICRC) and Médecins sans Frontières (MSF) have concentrated on upgrading sanitary, water and sewage facilities in some prison facilities which hold TB patients. Still much needs to be done to ensure that all prison facilities have adequate heating, water and sanitation systems, that correspond to the needs and to the minimum standards set out in UN Standard Minimum Rules for the Treatment of Prisoners, in order to create a healthier living environment and prevent the spread of disease.

UNODC, in partnership with the EU, launched a 3-year project, "Support to Prison Reform in the Kyrgyz Republic" in January 2010. The project has many interrelated and mutually reinforcing components. One component of the project focuses on the improvement of conditions in selected prison facilities, to ensure that the health of prisoners and staff is better protected and the spread of disease will be prevented. Such refurbishment will only cover water, sanitation, sewage and/or heating systems, depending on the needs. The selection of prisons for refurbishment will be undertaken, firstly on the basis of a selection made by the prison authorities themselves and secondly following a needs assessment to be undertaken by UNODC.

## **2. Main objectives**

### **2.1 Purpose of the assignment**

The purpose of the assignment is the development of selected prison infrastructure with focus on water, sanitation, heating and sewage systems.

Equivalence of healthcare and the right to health is a principle that applies to all prisoners, who are entitled to receive the same quality of medical care that is available in the community. The right to health includes not only the access to preventive, curative, reproductive, palliative and supportive health care but also the access to the underlying determinants of health, which include: safe drinking water and adequate sanitation; heating, fresh air and healthy working and environmental conditions.

By improving the underlying determinants of health, the project aims to contribute directly to healthcare promotion in prisons and complements activities undertaken by agencies such as the International Committee of the Red Cross (ICRC) and Médecins Sans Frontières (MSF), who focus on the treatment of prisoners.

Prison conditions in the Kyrgyz Republic are very poor, upgrading of infrastructure (water, sanitation, heating and sewage) is necessary.

According to an evaluation carried out in 2006, by OSCE and Penal Reform International, the problem of heating premises is particularly serious, which was confirmed by ICRC in July 2009.

By improving the sanitary infrastructure and facilities, which has a direct impact on prison health, a healthier living and working environment for prisoners and staff is promoted, contributing to the prevention of disease.

### **2.2 History**

The prisons in the republic of Kyrgyzstan are all prisons that were built when Kyrgyzstan was part of the Soviet Union. Each prison was upholding a tight and fully maintained production line. These prisons had their own factories in which prisoners made all sorts of products, prisons were cooperating with other prisons throughout the Soviet Union.

The Soviet Union was keen on upholding this way of producing because of its cheap labour.

These factory prisons were receiving good funding and high maintenance

With the collapse of the Soviet Union, these well-organized factories were all out of business, producing lines stopped and cooperation failed to continue.

From that point on the level of maintenance of these prisons decreased radically and decay set in. Fully equipped factories were dismantled to defray the costs and all that was left were factory ruins and poorly maintained prisons.

The prisons themselves were severely cut on budget and only a minimum in high priority maintenance was carried out.

### **2.3 Consideration in priorities**

By undertaking a technical assessment of selected prison establishments to identify the needs to improve water, sanitation, sewage and heating systems, so that they comply with internationally accepted standards for health and hygiene, we were able to see and determine in what state each of these prisons currently is.

The present day situation is one in which the prisons are in a stand still situation. Since the fall of the Soviet Union there has been no improvement in maintenance and funding.

Buildings are severely damaged by a combination of factors: Earthquakes are damaging buildings and lack of budget is causing prisons only to maintain what is top priority. This combination results in complete discarding the maintenance of the prison buildings: broken windows, damaged constructions, water and sewage conduit leakages can cause health hazards.

The systems that are in a constant urgent need of repair are the systems that provide the basic needs for health and hygiene: water, sewage, sanitation and heating.

Spare parts of all of the systems are very hard to come by or simply not available, due to old age. Prison staff needs to find inventive ways just to keep the systems working.

### **2.4 Expected Results**

A healthier working and living environment in prisons, contributing to the prevention of diseases and promoting mental and physical health

Improving water sanitation, heating and sewage systems in selected prison facilities:

Following a needs assessment and consultations with MOJ, EC and other stakeholders, prison establishments will be selected for refurbishment of their water, sanitation, sewage and/or heating systems, depending on the need in each establishment. The improvement of water supply, sanitation, sewage disposal and heating systems will directly impact on the health of approximately 2000 prisoners (estimating 5-6 prisons with an average of 400 in each prison (some will have more, some less prisoners).

Such improvement will also have direct impact on the health and wellbeing of 200-300 staff working in these institutions.

The refurbishment work will be carried out with the assistance of prisoner labour, where volunteer prisoners will be taught new skills in vocational training courses designed for the purpose, followed by on-the job training. This will help prisoners acquire skill that can assist with their employment following release, thereby contributing to their social reintegration.

Using prison refurbishment activities as an opportunity to provide vocational training for prisoners and establishing vocational training programs in prisons to enable prisoners to contribute to such refurbishment is an initiative that can be replicated throughout the prison system.

If the project's income generating aims are successful, the funds acquired for the prison service can be used for refurbishment, undertaken with the assistance of prisoners, trained in these vocational training programs.

The final outcome will benefit an increasing number of prisoners who participate in the vocational training programs and who benefit from improved conditions in prisons

### **3. Needs of improvement proposition**

#### **3.1 Average situation**

The current situation in all of the prisons, visited during the assessment, is one in which it is necessary to take measures to create a healthier living environment for prisoners and staff working in these institutions.

A contribution in developing infrastructural changes is essential to bring the basic sanitary needs to a minimum, set out in the UN standard minimum rules for the treatment of prisoners.

For the benefit of decreasing health hazardous situations it is necessary to improve the basic needs mentioned.

If no measures are taken in short run health hazardous situations in these institutions get worse.

The situation on visited institutions is a situation that can be applied as a standard for all institutions throughout Kyrgyzstan. The average situation of all of these prisons is equal as written below.

#### **Water**

The water pipeline framework is completely the same system as was built during the construction of these prisons; corrosion is in a far state, due to old age.

These systems cannot function properly, water doesn't run where it should and due to this decay there is pressure loss throughout the pipeline framework.

***To comply with the international standards for health and hygiene it is highly recommended that the existing pipelines are renovated.***

#### **Sewerage**

The sewerage systems are the same systems that were built during the construction of the prisons, due to old age pulverized sewer pipes make disposal impossible.

All the sewerage systems used to be connected to septic tanks or to city sewer systems. Now a day the sewer systems are all cut off and need to be reconnected to city systems or a septic tank.

The service of cleaning of these septic tanks must be recurring, otherwise the tanks will fill up and the clogging problem remains. State service of execution of penalties of Kyrgyzstan must be willing to make these costs repeatedly.

***To comply with the international standards for health and hygiene it is highly recommended that existing sewerage disposal canals are replaced and that this system is connected to a septic tank or reconnected to a city sewer when present. When using septic tanks servicing on a regular base is needed.***

#### **Sanitation**

In some of the prisons visited the bath en wash areas (which are combined) are in a bad constructional state. The buildings are damaged by a combination of factors.

Earthquakes and lack of budget are causing prisons only to maintain what is highly necessary which results in complete discarding the maintenance of the prison buildings.

***To comply with the international standards for health and hygiene it is recommended that the most severe damaged buildings are reinforced or even rebuild properly. Lack in maintenance can result in an unusable building facility in the near future.***

## **Heating**

In most of the prisons visited the heating systems were once good working central heating systems during the soviet era. Now a day the systems fail to work, parts of the systems are removed and sold, no heating is present at all. During the winter this causes serious problems.

In some cases the prisoners have built their own coal heating systems separate in every room.

***To comply with the international standards for health and hygiene it is recommended that new central heating systems is to be installed or existing systems must be upgraded. Existing conduit-pipes and manmade coal heating systems have to be removed.***

## **Ventilation**

In some of the prisons visited ventilation is an important feature.

Life term prisoners have to spend long hours in their cells, these cells aren't suitable for intensive use due to lack on quality ventilation.

Keeping these prisoners in this health hazardous situation will surely result in diseases.

The ventilation capacity of these cells in current situation is far from sufficient; to comply with internationally accepted standards for health and hygiene.

***To comply with the international standards for health and hygiene it is recommended that, when mentioned, this ventilation system is renovated or upgraded to a normal level.***

For the complete overview in priorities see chapter 4.

In this chapter the Priorities are successive numbered, with highest priorities numbered by 1.

Number 1 priorities are vital for reinsuring a healthier living and working environment for prisoners and staff, contributing to the prevention of diseases.

These items are to be taken on immediately to suppress the worst health hazardous situation in that prison. If these priorities are not taken care of health hazardous situations will get worse.

Number 2 priorities are items that must be undertaken in a short period of time, within a year.

These items contribute to uphold the international accepted standards of health and hygiene.

Number 3 priorities are elements in renovation that are recommended to undertake on the long run.

### 3.2 Priorities.

In the following overview only the high priority (priority 1) elements in each prison visited is given, accompanied with cost estimates.

By accomplishing these top priorities a healthier living and working environment for prisoners and staff can be created, contributing to the prevention of disease.

These items are to be taken on immediately to suppress the worst health hazardous situation in that prison.

<b>Prison colony #1</b>	Water	sewa ge	sanitati on	heatin g	Cost estimate in priorities	
Full renovation of water supply system	1				€ 19.137	\$ 29.000
Rehabilitation of water intake borehole	1				€ 12.010	\$ 18.200
Construction of water tower	1				€ 17.157	\$ 26.000
Reconstruction and full renovation of bath-laundry facilities			1		€ 44.543	\$ 67.500
<b>Subtotal 1:</b>					<b>€ 92.847</b>	<b>\$ 140.700</b>
Construction of treatment plants		2			€ 130.660	\$ 198.000
<b>Subtotal 2:</b>					<b>€ 130.660</b>	<b>\$ 198.000</b>
<b>Total per facility:</b>					<b>€ 223.507</b>	<b>\$ 338 700</b>
<b>Prison colony #50</b>	Water	sewa ge	sanitati on	heatin g	Cost estimate in priorities	
Full renovation of water supply system	1				€ 19.137	\$ 29.000
Rehabilitation of water intake borehole	1				€ 12.010	\$ 18.200
Full renovation of water tower	1				€ 13.857	\$ 21.000
<b>Subtotal 1:</b>					<b>€ 45. 004</b>	<b>\$ 68.200</b>
Reconstruction of treatment plants		2			€137.919	\$ 209.000
<b>Subtotal 2:</b>					<b>€137.919</b>	<b>\$ 209.000</b>
<b>Total per facility:</b>					<b>€182.923</b>	<b>\$ 277. 200</b>

<b>Prison colony #3</b>	Water	sewa ge	sanitati on	heatin g	Cost estimate in priorities	
Rehabilitation of water intake borehole	1				€ 13.066	\$19.800
Full renovation of water supply system	1				€ 39 .778	\$ 60.280
Construction of double-chamber septic tank		1			€ 21.776	\$ 33.000
Reconstruction and full renovation of bath house and laundry facilities			1		€ 21.776	\$ 33.000
<b>Subtotal:</b>					<b>€ 96.396</b>	<b>\$ 146.080</b>

<b>Total per facility:</b>		<b>€ 96.396</b>	<b>\$ 146.080</b>
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<b>Prison colony #8</b>	Water	sewa ge	sanitati on	heatin g	Cost estimate in priorities	
Rehabilitation of water intake borehole	1				€ 10.096	\$ 15.300
Full renovation of water supply system	1				€ 21.118	\$ 32.000
Construction of double-chamber septic tank		1			€ 21.776	\$ 33.000
Reconstruction and full renovation of bath house and laundry facilities			1		€ 21.776	\$ 33.000
<b>Subtotal 1:</b>					<b>€ 74.766</b>	<b>\$ 113.300</b>
Construction of treatment plants		2			€145.178	\$220.000
<b>Subtotal 2:</b>					<b>€145.178</b>	<b>\$220.000</b>
<b>Total per facility:</b>					<b>€219.944</b>	<b>\$ 333.300</b>

<b>Prison colony #16</b>	Water	sewa ge	sanitati on	heatin g	Cost estimate in priorities	
Rehabilitation of water intake borehole	1				€ 18.081	\$27.400
Full renovation of water supply system	1				€ 21.116	\$32.000
Construction of double-chamber septic tank		1			€21.776	\$33.000
Reconstruction and full renovation of bath house and laundry facilities			1		€ 43.553	\$ 66.000
<b>Subtotal 1:</b>					<b>€104.526</b>	<b>\$158.400</b>
Full renovation of heating system		2			€ 223.046	\$ 338.000
<b>Subtotal 2:</b>					<b>€ 223.046</b>	<b>\$ 338.000</b>
<b>Total per facility:</b>					<b>€ 327.572</b>	<b>\$ 496.400</b>

<b>Prison colony #47</b>	Water	sewa ge	sanitati on	heatin g	Cost estimate in priorities	
Full renovation of water supply system	1				€47.183	\$71.500
Full renovation of sewage system		1			€ 21.776	\$33.000
Reconstruction and full renovation of bath house and laundry facilities			1		€43.553	\$66.000
<b>Subtotal 1:</b>					<b>€112.512</b>	<b>\$170.500</b>
Full renovation of heating system				2	€132.838	\$201.300
<b>Subtotal 2:</b>					<b>€ 32.838</b>	<b>\$201.300</b>
<b>Total per facility:</b>					<b>€ 245.350</b>	<b>\$371.800</b>

<b>Prison SIZO #21</b>	Water	sewa ge	sanitati on	heatin g	Cost estimate in priorities	
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Full renovation of water supply system	1	€ 9.436	\$14.300
Full renovation of sewage system	1	€ 43.553	\$ 66.000
Reconstruction and full renovation of ventilation system	1	€ 21.776	\$ 33.000
Full renovation of roofing	1	<b>€ 21.776</b>	\$33.000
<i>Subtotal 1:</i>		<b>€ 96.541</b>	<b>\$146.300</b>
Full renovation of heating system	2	€132.837	\$201.300
<i>Subtotal 2:</i>		€132.837	\$201.300
<b>Total per facility:</b>		<b>€229.378</b>	<b>\$ 347.600</b>

<b>Prison colony #19</b>	Water	sewa ge	sanitati on	heatin g	Cost estimate in priorities
Full renovation of water supply system	1				€23.954 \$36.300
Construction of double-chamber septic tank		1			€21.776 \$33.000
Reconstruction and full renovation of bath and laundry facilities			1		€21.776 \$33.000
Full renovation of sewage system		1			€36.294 \$ 55.000
<i>Subtotal 1:</i>					<b>€103. 800</b> <b>\$ 157.300</b>
<b>Total per facility:</b>					<b>€ 103. 800</b> <b>\$ 157.300</b>

<b>Prison colony #2</b>	Water	sewa ge	sanitati on	heatin g	Cost estimate in priorities
Rehabilitation of water intake borehole10	1				€10. 624 \$16.100
Full renovation of water supply system	1				€19.137 \$29.000
Construction of double-chamber septic tank		1			€21. 776 \$33.000
Reconstruction and full renovation of bath and laundry facilities			1		€21. 776 \$33.000
Full renovation of sewage system		1			€36.294 \$ 55.000
<i>Subtotal 1:</i>					<b>€109. 607</b> <b>\$166.100</b>
<b>Total per facility:</b>					<b>€109. 607</b> <b>\$166.100</b>

<b>Prison colony # 23</b>	Water	sewa ge	sanitati on	heatin g	Cost estimate in priorities
Full renovation of water supply system	1				€8.116 \$12.300
Full renovation of sewage system		1			€23.756 \$36.000
Reconstruction and full renovation of ventilation system		1			€7.918 \$12.000
Full renovation of heating system				1	€36.294 \$ 55.000
<i>Subtotal 1:</i>					<b>€76.084</b> <b>\$ 115.300</b>

<b>Total per facility:</b>		<b>€ 76.084</b>	<b>\$ 115.300</b>
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<b>Prison colony # 24</b>	Water	sewa ge	sanitati on	heatin g	Cost estimate in priorities	
Full renovation of water supply system	1				€ 8.116	\$ 12.300
Construction of double-chamber septic tank		1			€21.776	\$33.000
Full renovation of sewage system		1			€21.776	\$ 33.000
Reconstruction and full renovation of ventilation system			1		€7.918	\$12.000
Full renovation of heating system				1	€36.294	\$ 55.000
Full renovation of roofing			1			
<i>Subtotal 1:</i>					<b>€ 95. 880</b>	<b>\$ 145.300</b>
<b>Total per facility:</b>					<b>€ 95. 880</b>	<b>\$ 145.300</b>

<b>Prison colony # 49</b> Facility for life term prisoners (LTP) (STIs clinic )	water	sewa ge	sanitati on	heatin g	Cost estimate in priorities	
Full renovation of water supply system	2				€39.791	\$ 60.300
Full renovation of sewage system		2			€26. 396	\$ 40.000
Full renovation of heating system				2	€32.995	\$ 50.000
<i>Subtotal 1:</i>					<b>€ 99.182</b>	<b>\$ 150.300</b>
<b>Total per facility:</b>					<b>€ 99.182</b>	<b>\$ 150.300</b>

<b>total 1</b>	<b>€ 1.107.145</b>	<b>\$1.677.780</b>
<b>total 2</b>	<b>€ 1.001.660</b>	<b>\$ 1.517.900</b>
<b>Overall budget</b>	<b>€ 2.108.805</b>	<b>\$ 3.195.680</b>

### 3.3 Summary

#### 3.3.1 Costs

By implementing all of these top priority needs, listed in chapter 4, all of the institutions will be helped setting health hazardous situations to a stand still.

Unfortunately the sum of the costs of all of these top priorities combined exceeds the intended budget of EUR 560.000,00 (or 849.310,00 USD). It is clear that trying to accomplish all of the top priorities the budget is exceeded by more than EUR 1.500.000. The exchange rate of the first tranche of the EU to UNODC (1 USD = 0,6599 EUR) is used for calculation of budget in USD. Therefore figures in USD might change considerably.

***Due to this insufficient funding choices are to be made on which of the visited prisons will be refurbished or renovated on prior needs only.***

#### 3.3.2 Vital combination in renovation

Trying to provide a healthier living environment and preventing spread of disease can only be accomplished by improving the standard basic needs of health and hygiene.

On the one hand renovation on all of the visited prisons is only feasible when renovation on a small scale is made, on the other hand undertaking only a small part or element, of all of these items in need of renovation, will not contribute to a healthier living environment.

Leaving all of the other elements, which are equally in bad condition, undisturbed will continue to create the same health hazardous situation as before renovation or refurbishment.

In all of the visited institutions it is clear that a combination in renovation on water supply and sewage disposal has to be made. Having to cope with an insufficient sewage system in combination with a good working water framework, or vice versa, is still a health hazardous situation.

***Providing these institutions with internationally accepted standards for health and hygiene on the basics on sewage and water has to be seen as a dichotomy.***

***Therefore it is highly recommended that improving prisons on the basic needs of water the sewage system is evenly to be renovated.***

***In some situations it may even be acknowledged that a full renovation combination on all mentioned items (water, sewage, sanitation and heating) is needed.***

***For example the accommodation of life term prisoners, see chapter 3.4 "Life term prisoners and accommodation".***

### **3.3.3 Number of showers**

The quantity of showers in these prisons is 1 on every 10 prisoners.

Taking the UN standard minimum rules for the treatment of prisoners into account, that a prisoner is enabled to bath or shower at least once a week, it can be concluded that one shower is enough for 70 prisoners in a week.

For example: with one shower 280 prisoners have the opportunity to wash themselves (1 shower x 10 prisoners x 7 days in a week) The UN minimum standard.

In many locations visited the amount of showers on the number of prisoners is insufficient.

***Therefore it is highly recommended that an increasing in number of showers is facilitated in these locations.***

### **3.3.4 Materials**

By using high quality materials, such as plastic materials for sewerage disposal, water pipelines and heating pipes, benefactions on multiple sides is made.

Not only life expectancy of these systems is extended, these materials are also far more suitable for seismic active regions and extreme temperature values.

In comparison with the more common materials these materials are lighter, decrease in weight causes decrease in transportation costs.

Working with these materials is less complicated.

### **3.3.5 Maintenance and budget reservations**

Maintenance on the various systems, when upgraded, is a key feature on upholding the level of basic needs in health and hygiene.

***When these systems are renovated, maintenance must be a top priority for prison staff. Minor defects on the systems can be taken care off immediately before further damage causes uselessness of the system.***

In that way lifetime on these systems can be prolonged to the maximum.

### **3.4 Life term prisoners and accommodation**

Life term prisoners are to be kept in a different kind of security level than is used on all the other facilities. The current situation is that all of the life term prisoners are located in different prisons all over the country, with all sorts of different regimes.

Prison SIZO # 1 (prison # 21), see chapter 4.1.8 is such a prison in which life term prisoners have to spend long hours in their cells.

The cells on each of these locations aren't suitable for intensive use due to lack on quality on different basic facility needs, keeping these prisoners in this health hazardous situation will surely result in disease.

The differences of regime and treatment difficulties for personnel put aside

The facilities of the cells in current situation are far from sufficient, to comply with internationally accepted standards for health and hygiene, renovation of these cells will be highly expensive.

The State service of execution of penalties is planning a full renovation of a former hospital for skin disease; see 4.1.13 *Former hospital for skin disease*. This location will be used solely for life term prisoners.

By making a contribution on this project a contribution is made on a healthier living environment for life term prisoners and will also solve the problem of having all of these life term prisoners scattered across Kyrgyzstan. Pressure on prison staff and its locations, due to the difference in regime difficulties, including health hazardous situations for the life term prisoners are dealt with all together.

## **4. Prison visits**

### **4.1 Priorities**

In this assessment there were a total of 13 prisons visited, on each of the prisons visited a description in needs is given. The sanitary facilities in most prison establishments are in an appalling state.

The assessment is concentrated on upgrading sanitary, water and sewage facilities as well as adequate heating.

All have to correspond to the needs and to the minimum standards set out in UN Standard Minimum Rules for the Treatment of Prisoners, in order to create a healthier living environment and prevent the spread of disease.

Because all of these prisons are in bad conditions considering the basic needs, the description of each of these prisons is followed by a summary on priorities as seen as most important in that particular prison.

Priorities are successively numbered, with highest priorities numbered by 1.

Number 1 priorities are vital for reinsuring a healthier living and working environment for prisoners and staff, contributing to the prevention of disease. These items are to be taken on immediately to suppress the worst health hazardous situation in that prison.

Number 2 priorities are items, which must be undertaken, in a short period of time, within a year. These items contribute to uphold the international accepted standards of health and hygiene.

Number 3 priorities are elements in renovation which are recommended to undertake within 3-5 years

In the following pages an outline on findings of each of the prisons visited is given. The different priorities for each of these prisons are given separately with its cost estimate. These priorities are purely concentrated on the sanitary infrastructure only.

This is accompanied with a detailed condition analysis on the separate parts investigated, followed by improvement recommendations.

This detailed description is given as a supplement made by local-expert Engineer Mr.B.Jeenbaev

#### **4.1.1 Prison colony #1.**

Prison colony #1:	Male colony of High Security Regime.
City:	Moldovanovka village.
Date of construction:	1927
Capacity limit:	1752
Capacity present:	1320

This prison used to be a factory facilitated prison, the factory is completely demolished. The prison buildings are damaged due to old age and active seismic activities.

##### *Water*

Water is being pumped from the earth, the pump is severely damaged and has stopped working from time to time, total collapse is inevitable in the near future. (see pic. 5.1.1, app 5.1)

The pump building is dated and badly damaged. (see pic. 5.1.2, app 5.1)

There is no water purifier present at this location.

The framework of pipelines is severely damaged and is leaking directly into the soil. (see pic.5.1.3, app 5.1)

##### *Sewage*

All the sewage water is taken into renovated canals, and the canals are to be connected onto a new septic tank (see pic. 5.1.4, app 5.1). This program will be finished and is paid for by an other organisation.

Therefore this part will be not taken into account for this report.

##### *Sanitation*

There are only 4 showers and a steam room present for approximately 1000 prisoners (see pic. 5.1.5 & 5.1.6, app 5.1). With only 4 showers it is impossible to comply with the standard minimum rules for the treatment of prisoners concerning bathing or showering once a week.

Clothing washing facilities are in poor conditions. (see pic. 5.1.7, app 5.1)

The whole construction of the building is severely damaged due to old age and seismic activities, as a result there is water leakage from the roof. (see pic. 5.1.8, app 5.1)

This building needs to be renovated.

##### *Heating*

Self-made coal heating systems are used, separately in every room.

**Concluding to prior needs.**

- **New pump and new pipeline framework is needed to maintain the basic water needs.**
- **Additional showers will help to comply with standard minimum rules for the treatment of prisoners.**
- **Renovation of the bath & wash area is recommended.**
- **Heating by a central system is needed.**

<b>Prison colony #1</b>	Water	sewa ge	sanita tion	heating	Cost estimate in priorities	
					€	\$
Full renovation of water supply system	1				€ 19.137,1	\$ 29.000
Rehabilitation of water intake borehole	1				€ 12.010,18	\$ 18.200
Construction of water tower	1				€ 17.157,4	\$ 26.000
Reconstruction and full renovation of bath-laundry facilities			1		€ 44.543,25	\$ 67.500
Subtotal 1:					<b>€ 92.847</b>	<b>\$ 140.700</b>
Construction of treatment plants		2			€ 130.660	\$ 198.000
Subtotal 2:					<b>€ 130.660</b>	<b>\$ 198.000</b>

total 1	<b>€ 92.847</b>	\$140.700
total 2	<b>€ 130.660</b>	\$198.000
<b>total</b>	<b>€ 223.507</b>	<b>\$ 338.700</b>

date	Prison	Condition of engineering communications/networks services	Remarks
21.0 9. 2010	<p><b>Prison #1 at Moldovanovka village</b></p> <p><u>High Security</u></p> <p>Capacity limit -1752 persons Capacity, planned -1320 persons</p>	<ul style="list-style-type: none"> <li>• <b>Water supply system</b> <i>First priority</i></li> </ul> <p>Following defects were found in the water pumping system's borehole station:</p> <ul style="list-style-type: none"> <li>- No windows, doors, hatch, and roofing is leaky; The water tower's borehole has following items in poor condition: pump, fittings, tubes, and there is no bactericide device; The water supply system has no the pressure required due to huge losses within the line;</li> <li>- Main outdoor water supply system is out of order, i.e. tubes doted, and the indoor water supply system is deteriorated and requires major repair works.</li> </ul>	<p><b>Recommendations:</b></p> <p>Implement the technical investigation of the water supply system. Based on the Technical Conclusions the major repair shall be done for outdoor and indoor water supply systems as well as inventory and repair of water tower borehole equipment. i.e. replacement of the pump and other necessary elements of the equipment, and installation of the bactericide device.</p>
		<ul style="list-style-type: none"> <li>• <b>Sanitation system improvement</b> <i>First priority</i></li> </ul> <p>The laundry facility has been attached willfully, and now it is in accident condition:</p> <ul style="list-style-type: none"> <li>- Roofing is leaky;</li> <li>- Cracks were found in walls;</li> <li>- Beams are in accident condition;</li> <li>- Mixers and other equipment worn out;</li> </ul>	<p><b>Recommendations:</b></p> <p>Implement the technical investigation of the building. In accordance with the Technical Conclusions and Act of Defects developed by the Commission, the facility's reconstruction and major repair works are to be carried out.</p>
		<ul style="list-style-type: none"> <li>• <b>Sewerage system</b> <i>First priority</i></li> </ul> <p>At present there are ongoing reconstruction works in sewerage system implemented by a construction company, but now the works are suspended for unknown reasons</p> <p>This prison has no indoor and outdoor sewerage systems operable.</p>	<p><b>Recommendations:</b></p> <p>Complete the rehabilitation of outdoor sewerage system. Indoor sewerage system needs major repair works.</p>

date	Prison	Condition of engineering communications/networks services	Remarks
		<ul style="list-style-type: none"> <li>• <b>Heating system</b>  <i>Medium priority</i></li> </ul> At the time being the heating for residential sections is provided with charcoal/solid fuel (stove). Former central heating system is out of order.	<b>Recommendations:</b> Supply with (autonomous) electric or combined heating with solid fuel

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#### 4.1.2 Prison colony #50

Prison colony #50 : female colony, pre-trial prison

City: Moldovanovka village

Date of construction: 2002

Capacity limit: 73

Capacity present: 80

Only the outside of the prison is visited.  
The biggest problem was located on the outside.

##### Water

This system has not been examined, in the cost estimate report (which was sent after visit) this part has been calculated too.

Because water and sewage problems have to be dealt with together, see 3.3 *Vital combination implementation*, this water system must also be taken into account.

##### Sewage

The sewage system is an old system.  
There is no septic tank or connection to a public sewer system. (see pic. 5.2.1, app 5.2)  
Two man made holes (open septic areas) are used for collecting the faeces.  
These have to be cleaned out on a regular base.  
There is no septic tank or connection to a public sewer system.

##### Sanitation

This part of the prison is not taken into account in this report.

##### Heating

This part of the prison is not taken into account in this report.

#### Concluding to prior needs

**A new septic tank or connection to a city sewage system is needed.**

<b>Prison colony #50</b>	Water	sewa ge	sanit ation	heatin g	Cost estimate in priorities	
Full renovation of water supply system	1				€ 19.137	\$ 29.000
Rehabilitation of water intake borehole	1				€ 12.010	\$ 18.200
Full renovation of water tower	1				€ 13.857	\$ 21.000
<i>Subtotal 1:</i>					<b>€ 45. 005</b>	<b>\$ 68.200</b>
Reconstruction of treatment plants		2			€137.919	\$ 209.000
<i>Subtotal 2:</i>					<b>€137.919</b>	<b>\$ 209.000</b>

total 1	<b>€ 45. 005</b>	<b>\$68.200</b>
total 2	<b>€137.919</b>	<b>\$ 209.000</b>
<b>total</b>	<b>€182.923</b>	<b>\$ 277.200</b>

date	Prison	Condition of engineering communications/networks services	Remarks
21.09.2010	<p><b>Prison # 50 MPES</b>  <b>21.092010</b>  <b>Moldovanovka village</b></p> <p><u>Female</u></p> <p>Capacity limit -73 persons  Capacity, planned - 80 persons</p>	<ul style="list-style-type: none"> <li>• <b>Sewerage system</b></li> </ul> <p><i>First priority</i></p> <p>At present the septic tank is not cobbled yet, but a problem would occur in the nearest future due to the fact that the sewerage treatment plant is out of operation now, and filling of the septic would entail wastes release into the private sector's field</p>	<p><b>Recommendations:</b></p> <p>Inspect the outdoor sewerage system, and it should be stressed that rehabilitation of this facility would be quite expensive.  Tentative cost of such facility reconstruction – USD 209,000  Maintenance of such facility requires special personnel and guards.</p>
		<ul style="list-style-type: none"> <li>• <b>Water supply system</b></li> </ul> <p><i>Medium priority</i></p> <p>Following defects were found in the water supply system:</p> <ul style="list-style-type: none"> <li>- Water pumping system's borehole station has no a bactericide facility;</li> <li>- No pressure in the water supply system, as well as there are huge losses of water;</li> <li>- Pump of the borehole equipment is often burnt out;</li> </ul>	<p><b>Recommendations:</b></p> <p>Inspect the water supply system line.  It is necessary to inspect the water tower borehole equipment and to find out a reason for the pump burning. Based on the Technical Conclusions, the inventory and repair of the borehole equipment shall be done as well as replacement of tubes within water supply network.  Install the bactericide device.</p>

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### 4.1.3 Prison colony #3

Prison colony #3:	Male colony of High Security Regime
City:	Novopokrovka village
Date of construction:	1958
Capacity limit :	1628
Capacity present:	1200

There are some renovation works in this prison; these renovation works are on hold for almost 3 years now. There seems to be a problem between the construction company and the State service of execution of penalties on behalf of completing the renovation and its payment. The court already decided in favour of the state service, renovation activities are obligatory.

This part of the renovated prison is not taken into account in this report.

#### *Water*

There is not enough pressure in the water framework.

Due to old age this framework between the buildings is severely damaged, a lot of pressure is lost due to this damage. The pipeline framework within the buildings is also of poor quality. (see pic. 5.3.1, & 5.3.2, app 5.3) By reinstalling a better pump, further damaged to the pipelines will occur, due to old age these pipelines cannot cope with normal pressure.

There is no water purifier present at this location.

#### *Sewage*

The sewage system is an old system that has been there since the completion of the prison.

There is no septic tank or connection to a public sewer system. (see pic. 5.3.3, app 5.3)

A man made open septic area is used for collecting the faeces.

Severely damaged sewage canals are leaking directly into the soil.

#### *Sanitation*

There are only 8 showers and a steam room present for approximately 1100 prisoners (see pic. 5.3.4, app 5.3). With only 8 showers it is impossible to comply with the standard minimum rules for the treatment of prisoners concerning bathing or showering once a week.

Clothing washing facilities are in poor conditions. (see pic. 5.3.4, app 5.3)

The whole construction of the building is severely damaged due to old age and seismic activities, as a result there is water leakage from the roof. (see pic. 5.3.4 & 5.3.5, app 5.3) Renovation is needed.

#### *Heating*

Self made coal heating systems are used, separate in every room. (see pic. 5.3.6, app 5.3)

**Concluding to prior needs.**

- **New pump and new pipeline framework is needed to maintain the basic water needs.**
- **The sewage canals need renovation, connection to septic tank or public sewage system is needed.**
- **Reconstruction of the bath & wash area is recommended.**
- **Heating by a central system is needed.**

<b>Prison colony #3</b>	Water	sewage	sanitation	heating	Cost estimate in priorities	
Rehabilitation of water intake borehole	1				€ 13.066	\$19.800
Full renovation of water supply system	1				€ 39.778	\$ 60.280
Construction of double-chamber septic tank		1			€ 21.776	\$ 33.000
Reconstruction and full renovation of bath and laundry facilities			1		€ 21.776	\$ 33.000
<i>Subtotal:</i>					<b>€ 96.396</b>	<b>\$ 146.080</b>

total 1	<b>€ 96.396</b>	<b>\$ 146.080</b>
<b>total</b>	<b>€ 96.396</b>	<b>\$ 146.080</b>

date	Prison	Condition of engineering communications/networks services	Remarks
21.09.2010	<p align="center"><b>Prison # 3 MPES at Novopokrovka village</b></p> <p><u>High Security</u> TB hospital</p> <p>Capacity limit - 1628 persons</p> <p>Capacity planned -1200 persons</p>	<ul style="list-style-type: none"> <li>• <b>Water supply system</b></li> </ul> <p><i>First priority</i></p> <p>Indoor water supply system has no pressure required and there are huge losses of water correspondingly: The water pumping station equipment has no bactericide device. Water tower has no atmosphere pressure required.</p> <ul style="list-style-type: none"> <li>- Outdoor water supply system running from the borehole to the water tower station is in poor condition, i.e. tubes are doted and the indoor water supply system is worn out and requires major repair.</li> </ul>	<p><b>Recommendations:</b></p> <p>Inspect the station of the water pumping borehole, and find out the reason of a lack of pressure and huge losses available: Check out the pressure in a forked tube within the water supply system. Inspect the water supply line, and if huge losses are caused by uselessness of old worn out tubes, then these should be replaced. The bactericide device shall be installed into the equipment for water pumping facility. Water tower needs major repair, and the equipment and pump are to be replaced.</p>
		<ul style="list-style-type: none"> <li>• <b>Sewerage system</b></li> </ul> <p><i>First priority</i></p> <p>The sewerage system constructed in the Soviet Union era within 1960-1975s has been completely destroyed and presently does not operate. As it is true for all prisons there are n any drawings, topographic surveys for existing networks of engineering sewerage systems. The contractor did not complete repair works in the sewerage system.</p>	<p><b>Recommendations:</b></p> <p>Inspect the outdoor and indoor sewerage systems. And it shall be also pointed out that rehabilitation of sewerage treatment plant which is currently out of operation would be approx. KGS 9-10 Mio, that is expansive. It has to be noted that maintenance of such facility requires special personnel and guards.</p> <p>One of possible options to address the problem is construction of a cesspit, i.e. <b>septic tank</b>, but in this case the MPES has to address the issue of its maintenance.</p>

		<ul style="list-style-type: none"> <li>• <b>Sanitation systems improvement</b></li> </ul> <p><i>First priority</i></p> <p>Bath house and laundry facilities are in accident condition:</p> <ul style="list-style-type: none"> <li>- Roofing is leaky;</li> <li>- Cracks were found in walls;</li> <li>- Mixers and other equipment worn out; and</li> <li>- Temporary septic does not meet neither sanitation or construction standards;</li> </ul>	<p><b>Recommendations:</b></p> <p>Implement the technical investigation of the building. In accordance with the Technical Conclusions and Act of Defects developed by the Commission, the facility's walls are to be reinforced.</p>
		<ul style="list-style-type: none"> <li>• <b>Heating system</b></li> </ul> <p><i>Medium priority</i></p> <p>No centralized heating system. Residential sections have stove heating</p>	<p><b>Recommendations:</b></p> <p>To address the problem the option with (autonomous) electric and combined heating shall be selected. Rehabilitation of the centralized heating system will require enormous funds, and operation of the system mentioned above is expensive too.</p>

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#### **4.1.4 Prison colony #8**

Prison colony #8:	Male colony of Enhanced Security Regime
City:	Petrovka Village
Date of construction:	1966
Capacity limit:	1500
Capacity present:	700

In this prison the prisoners try to make this prison suitable to the known standards by own craftsmanship and labour.

##### *Water*

Two pumps are taking care of the needed pressure in the water framework.

Due to old age this framework between the buildings is severely damaged, a lot of pressure is lost due to this corrosion damage. (see pic. 5.4.1 & 5.4.2, app 5.4)

The framework within the buildings is also of poor quality.

There is no water purifier present at this location.

##### *Sewage*

The sewage system is an old system that has been there since the completion of the prison. There is no septic tank or connection to a public sewer system.

A man made open septic area is used for collecting the faeces. (see pic. 5.4.3, app 5.4)

Severely damaged sewage canals are leaking directly into the soil. (see pic. 5.4.4, app 5.4)

##### *Sanitation*

Bathing area is adequate, Laundry area is in bad condition and has no drying facilities. (see pic. 5.4.5, 5.4.6 & 5.4.7, app 5.4) Toilets are of poor quality. (see pic. 5.4.8 & 5.4.9, app 5.4)

##### *Heating*

Coal-heating systems are used, separate in every room. (see pic. 5.4.10, app 5.4)

It isn't enough to sustain heat in all the living areas

**Concluding to prior needs**

- **New pump and new pipeline framework is needed to maintain the basic water needs.**
- **The sewage canals need renovation, connection to septic tank or public sewage system is needed.**
- **Heating by central system is recommended.**

<b>Prison colony #8</b>	Water	sewa ge	sanita tion	heatin g	Cost estimate in priorities	
Rehabilitation of water intake borehole	1				€ 10.096	\$ 15.300
Full renovation of water supply system	1				€ 21.118	\$ 32.000
Construction of double-chamber septic tank		1			€ 21.776	\$ 33.000
Reconstruction and full renovation of bath and laundry facilities			1		€ 21.776	\$ 33.000
<i>Subtotal 1:</i>					<b>€ 74.766</b>	<b>\$ 113.300</b>
Construction of treatment plants		2			€145.178	\$ 220 .000
<i>Subtotal 2:</i>					<b>€145.178</b>	<b>\$ 220 .000</b>

total 1	<b>€ 74.766</b>	<b>\$ 113.300</b>
total 2	<b>€145.178</b>	<b>\$ 220 .000</b>
<b>total</b>	<b>€219.944</b>	<b>\$ 333.300</b>

date	Prison	Condition of engineering communications/networks services	Remarks
22.09 2010	<p align="center"><b>Prison #8 MPES at Petrovka village</b></p> <p align="center"><u>Medium Security</u></p> <p>Capacity limit – 1500 persons Capacity planned – 700 persons</p>	<ul style="list-style-type: none"> <li>• <b>Water supply system</b> <i>First priority</i></li> </ul> <p>Following defects were found within the water supply system:</p> <ul style="list-style-type: none"> <li>- Some tubes with d=50mm running to the facilities are damaged and subject to repair;</li> <li>- The water supply system has no pressure required which impedes delivery of required amount of water to the canteen and bath house and laundry facilities;</li> <li>- Water pumping equipment is worn out and requires major repair;</li> <li>- Water pumping station has no bactericide device;</li> <li>- The facility of water pumping borehole requires major repair.</li> </ul>	<p><b>Recommendations:</b></p> <p>The water pumping borehole station shall be repair major repair works). Implement the technical investigation of the water supply system. Based on the Technical Conclusions, the major repair shall be done for outdoor and indoor water supply systems as well as inventory and repair of water tower's borehole equipment. i.e. replacement of the pump and other necessary elements of the equipment, and installation of the bactericide device. A project for replacement of the equipment and major repair for the water supply system is possible.</p>
		<ul style="list-style-type: none"> <li>• <b>Sewerage system</b> <i>First priority</i></li> </ul> <p>The sewerage system constructed in the Soviet Union era within 1960-1975s has been completely destroyed and presently does not operate. As it is true for all prisons there are n any drawings, topographic surveys for existing networks of engineering sewerage systems. At present waste effluents from canteen and bath house and laundry facilities are released into open and not adapted pits which might lead to environmental and sanitation-epidemiological consequences.</p>	<p>It is suggested to construct new sewerage system, but the sewerage system with the sewerage treatment plant assumes great expenditures starting from development of technical documentation to the site completion. It has also to be considered that the sewerage treatment plant needs proper maintenance.</p>

	<ul style="list-style-type: none"> <li>• <b>Heating system</b> <i>Medium priority</i></li> </ul> <p>The centralized heating system is out of operation for 20 years. At present the heating for this prison is secured with a stove by sections.</p>	<p><b>Recommendations:</b> Autonomous electric and combined heating. Rehabilitation of the centralized heating system will require enormous funds, and operation of the system mentioned above is expensive too.</p>
	<ul style="list-style-type: none"> <li>• <b>Sanitation system improvement</b> <i>Medium priority</i></li> </ul> <p>Bath house and laundry facilities within this institution are of satisfactory status. There are some defects indoor, namely:</p> <ul style="list-style-type: none"> <li>- Windows, doors are in poor condition;</li> <li>- Mixers and other equipment are worn out;</li> <li>- Walls are in poor condition;</li> </ul>	<p><b>Recommendations:</b></p> <p>Windows and doors are to ne installed, the walls and floor are to be decorated with ceramic tiles (tiles)</p> <p>New equipment for laundry facility and mixers for showers.</p>

#### **4.1.5 Prison colony # 45**

Prison colony #45:	Colony settlement / open-type prison
City:	Belovodskoe village
Date of construction:	1970
Capacity limit:	200
Capacity present:	190

This open-type prison will be used in the near future for small labour. There are plans of making a small carpentry, food for farming preparation and rabbit stock. (see pic. 5.5.1 & 5.5.2, app 5.5) Minor renovation works are done by prison labour.

##### *Water*

There are no problems concerning the basic needs of water.

##### *Sewage*

There are no problems concerning the basic needs of sewage.

##### *Sanitation*

There are no problems concerning the basic needs of sanitation.

##### *Heating*

There are no problems concerning the basic needs of heating.

#### **Concluding to prior needs.**

- **None.**

date	Prison	Condition of engineering communications/networks services	Remarks
22.09 2010	<b>Prison # 45 settlement of MPES at Belovodskoe village</b>	<p>Following defects are found in buildings of presumed workshops:</p> <ul style="list-style-type: none"> <li>- Roofing is leaky;</li> <li>- Cracks in walls;</li> <li>- Beams in accidental condition;</li> <li>- Concrete bedding of floor is in poor condition;</li> <li>- Indoor and outdoor power supply systems do not meet the load assumed for the workshops</li> </ul>	<p><b>Recommendations:</b></p> <p>Major repair is required for workshops taking into consideration the reconstruction of outdoor and indoor power supply systems because of assumed installation of equipment for the workshops.</p>

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#### **4.1.6 Prison colony #16**

Prison colony #16:	Male colony of High Security Regime.
City:	Belovodskoe village.
Date of construction:	1976
Capacity limit:	2112
Capacity present:	900

##### *Water*

The framework of pipelines is severely damaged.

Due to old age this pipeline framework between the buildings is severely damaged, a lot of pressure is lost due to this corrosion damage.

This causes lack of water in some parts of the prison as a result new built outside toilets must be used instead of the in house toilets.

The framework within the buildings is also of poor quality. (see pic. 5.6.1, app 5.6)

##### *Sewage*

The sewage system is an old system that has been there since the completion of the prison.

There is no septic tank or connection to a public sewer system.

A man made open septic area is used for collecting the faeces.

Severely damaged sewage canals are leaking directly into the soil. (see pic. 5.6.2, 5.6.3 & 5.6.4, app 7.6) . Sewage in kitchen area is an open source sewage (see pic. 5.6.5, app 5.6)

##### *Sanitation*

The showers & sauna are in a bad state and need to be renovated. (see pic. 5.6.6 & 5.6.7, app 5.6)

Washing and bathing area are set in a building that is severely damaged due to old age and seismic activities, as a result there is water leakage from the roof.

This building needs to be renovated. (see pic. 5.6.8, app 5.6)

##### *Heating*

Self-made coal heating systems are used, separate in every room.

**Concluding to prior needs.**

- **New pump and new pipeline framework is needed to maintain the basic water needs.**
- **The sewage canals need renovation, connection to septic tank or public sewage system is needed.**
- **Renovation of shower facility is needed.**
- **Renovation of the bath & wash building is recommended.**
- **Heating by a central system is recommended.**

<b>Prison colony #16</b>	<i>sewa sanit</i>			<i>Cost estimate in priorities</i>		
	<i>Water</i>	<i>ge</i>	<i>ation</i>	<i>heating</i>		
Rehabilitation of water intake borehole	1				€ 18.081	\$27.400
Full renovation of water supply system	1				€ 21.116	\$32.000
Construction of double-chamber septic tank		1			€21.776	\$33.000
Reconstruction and full renovation of bath and laundry facilities			1		€ 43. 553	\$ 66.000
<i>Subtotal 1:</i>					<b>€104.526</b>	<b>\$158.400</b>
Full renovation of heating system				2	€ 223.046	\$ 338.000
<i>Subtotal 2:</i>					<b>€ 223.046</b>	<b>\$ 338.000</b>

<b>total 1</b>	<b>€104.526</b>	<b>\$158.400</b>
<b>total 2</b>	<b>€ 223.046</b>	<b>\$ 338.000</b>
<b>total</b>	<b>€ 327.572</b>	<b>\$ 496.400</b>

date	Prison	Condition of engineering communications/networks services	Remarks
22.0 9 2010	<p align="center"><b>Prison #16 MPES at Belovodskoe village</b></p> <p align="center"><u>High Security</u></p> <p>Capacity limit – 2112 persons Capacity planned - 900 persons</p>	<ul style="list-style-type: none"> <li>• <b>Water supply system</b> <i>First priority</i></li> </ul> <p>Following defects were found within the water supply system:</p> <ul style="list-style-type: none"> <li>- Outdoor water supply system's tubes are severely damaged and subject to repair;</li> <li>- No pressure required that impedes delivery of required amount of water to the canteen and bath house and laundry facilities, and other residential buildings;</li> <li>- The borehole station has poorly operating equipment that often leads to burning of the pump.</li> </ul>	<p><b>Recommendations:</b></p> <p>The technical investigation of the water supply system is required. Based on the Technical Conclusions, the major repair shall be done for outdoor and indoor water supply systems as well as inventory and repair of water tower borehole equipment. i.e. replacement of the pump and other necessary elements of the equipment, and installation of the bactericide set.</p>
		<ul style="list-style-type: none"> <li>• <b>Sewerage system</b> <i>First priority</i></li> </ul> <p>The sewerage system is complete destroyed, and at present it does not work. Penalty cell has no indoor sewerage, water supply, and heating.</p>	<p><b>Recommendations:</b></p> <p>Major repair of indoor and outdoor sewerage systems.</p>
		<ul style="list-style-type: none"> <li>• <b>Sanitation system improvement</b> <i>First priority</i></li> </ul> <p>Facilities of bath house and laundry are in pre-accidental status:</p> <ul style="list-style-type: none"> <li>- Power supply does not meet the norms of operation safety rules as well as to fire control requirements;</li> <li>- Roofing is leaky;</li> <li>- Cracks in walls;</li> <li>- Mixers and other equipment are worn out;</li> <li>- Temporary septic does not meet neither sanitation or construction standards; and</li> <li>- Canteen in its coking unit has no a hook and</li> </ul>	<p><b>Recommendations:</b></p> <p>Technical investigation of the facilities is required. In accordance with the Technical Conclusions and Act of Defects developed by the Commission, there shall be: construction of roofing, reinforcement of walls, reinforcement and repair of beams, repair of all indoor communication networks, installation of new windows, doors, repair and finishing of indoor walls as well as replacement of all necessary equipment, mixers. An option of construction of new bath house and laundry facility is possible.</p>

		ventilation system.	
		<ul style="list-style-type: none"> <li>• <b>Heating system</b> <i>Medium priority</i></li> </ul> <p>The centralized heating system is out of operation for 20 years. At present the heating for this prison is secured with stove by sections</p>	<p><b>Recommendations:</b> Autonomous electric and combined heating is suggested. Rehabilitation of the centralized heating system will require enormous funds, and operation of the system mentioned above is expensive too.</p>

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#### **4.1.7 Prison colony # 47**

Prison colony # 47:	Male hospital colony
City:	Bishkek
Date of construction:	1955
Capacity limit:	Medium security, Central hospital 684
Capacity present:	400

##### *Water*

The framework of pipelines is severely damaged.

Due to old age this pipeline framework between the buildings is severely damaged, a lot of pressure is lost due to this corrosion damage. (see pic. 5.7.1, app 5.7)

This causes lack of water in some parts of the prison.

The framework within the buildings is also of poor quality. (see pic. 5.7.2 & 5.7.3, app 5.7)

##### *Sewage*

The sewage system is an old system that has been there since the completion of the prison (see pic. 5.7.4, app 5.7), connection to a public system is cut off.

It is possible to connect this sewage system to a public sewage system.

A man made open septic area is used for collecting the faeces.

Severely damaged sewage canals are leaking directly into the soil. (see pic. 5.7.5 & 5.7.6, app 5.7)

##### *Sanitation*

A whole set of toilets isn't used because of lack of water and proper sewage. (see pic. 5.7.7, app 5.7) The showers are in a bad state and need to be renovated. (see pic. 5.7.8, app 5.7)

Laundry area needs renovation. (see pic. 5.7.9, app 5.7)

##### *Heating*

Heating system is not working. This old system can be refurbished but will continue to be a non-reliable system (see pic. 5.7.10, app 5.7)

Separate heating systems for each building is recommended.

**Concluding to prior needs.**

- **New pipeline framework is needed to maintain the basic water needs.**
- **The sewage canals need renovation, connection to public sewage system is needed.**
- **Showers and laundry facility, needs renovation.**
- **Toilet facility no longer in use, recommended renovation**
- **Separate central heating systems for separate buildings is recommended.**

<b>Prison colony #47</b>	<b>Water</b>	<b>sewage</b>	<b>sanitation</b>	<b>heating</b>	<b>Cost estimate in priorities</b>	
Full renovation of water supply system	1				€47.183	\$71.500
Full renovation of sewage system		1			€ 21.776	\$33.000
Reconstruction and full renovation of bath and laundry facilities			1		€43.553	\$66.000
<i>Subtotal 1:</i>					<b>€112. 512</b>	<b>\$170.500</b>
Full renovation of heating system				2	€ 132.838	\$201.000
<i>Subtotal 2:</i>					<b>€ 132.838</b>	<b>\$201.300</b>

total 1	<b>€ 112. 512</b>	<b>\$170.500</b>
total 2	<b>€ 132.838</b>	<b>\$201.300</b>
<b>total</b>	<b>€ 245.350</b>	<b>\$371.800</b>

date	Prison	Condition of engineering communications/networks services	Remarks
22.0 2010	<p><b>Prison # 47 MPES</b> <b>Bishkek city</b></p> <p><u>Medium Security</u> (Central Hospital) Capacity limit – 684 persons Capacity planned – 400 persons</p> <p>( CH) Capacity limit – 516 persons Capacity planned - 500 persons</p>	<ul style="list-style-type: none"> <li>• <b>Water supply system</b> <i>First priority</i></li> </ul> <p>Outdoor water supply system is connected to the centralized water supply system of Bishkek city. At present repair works for some branches of the outdoor water supply system are ongoing, but indoor water supply system needs major repair.</p>	<p><b>Recommendations:</b></p> <p>Major repair of indoor and outdoor water supply system is required.</p>
		<ul style="list-style-type: none"> <li>• <b>Sewerage system</b> <i>First priority</i></li> </ul> <p>The prison's sewerage system was connected to the centralized sewerage system. Major repair of outdoor and indoor sewerage systems has not been done for many years, and due to this fact tubes and other elements of sewerage system are completely out of order. Waste effluents from bath house and laundry facilities are released into open and not adapted pits which might lead to environmental and sanitation-epidemiological consequences.</p>	<p><b>Recommendations:</b></p> <p>Technical investigation of the sewerage system is required. Based on Technical Conclusion, there shall be repair of outdoor and indoor networks of sewerage as well as replacement of necessary elements of equipment for indoor sewerage system.</p>
		<ul style="list-style-type: none"> <li>• <b>Sanitation system improvement</b> <i>First priority</i></li> </ul> <p>Facilities of bath house and laundry are in pre-accidental</p>	<p><b>Recommendations:</b></p> <p>Technical investigation of the facilities is required. In accordance with the Technical Conclusions and Act of</p>

		<p>status and have following defects:</p> <ul style="list-style-type: none"> <li>- Roofing is in poor condition ;</li> <li>- Beams in emergency state;</li> <li>- Cracks in walls;</li> <li>- Concrete bedding of floor is in poor state;</li> <li>- Power supply does not meet the norms of operation safety rules as well as to fire control requirements;</li> <li>- Mixers and other equipment are worn out;</li> <li>- Temporary septic does not meet neither sanitation or construction standards;</li> <li>- Indoor sewerage system is in poor condition; and</li> <li>- There is industrial washing machine.</li> </ul>	<p>Defects developed by the Commission, there shall be: reconstruction of roofing, reinforcement of walls, reinforcement and repair of beams, repair of all indoor communication networks, installation of new windows, doors, repair and finishing of indoor walls as well as replacement of all necessary equipment, mixers.</p>
		<ul style="list-style-type: none"> <li>• <b>Heating systems</b> <b>Medium priority</b></li> </ul> <p>The centralized heating system does not work. At present the heating for this prison is secured with a stove by sections</p>	<p><b>Recommendations:</b></p> <p>Autonomous electric and combined heating is suggested. Rehabilitation of the centralized heating system will require enormous funds, and operation of the system mentioned above is expensive too.</p>

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#### **4.1.8 Prison SIZO # 1 (prison colony # 21)**

Prison SIZO # 1:	Male pre-trial detention centre.
City:	Bishkek.
Date of construction:	1943
Capacity limit:	1329
Capacity present:	1250

This SIZO # 1 situation is different. The prisoners are spending long hours in their cells. Ventilation is very poor. The walking areas are situated on the roof, this roof is leaking due to the walking areas on the same roof and old age.

Some cells cannot be used because of this leakage. *(see pic. 5.8.1 & 5.8.2 , app 5.8)*

It is strongly recommended that all parts of health hazardous elements must be taken care of instead of one or two. If only one or a few parts are renovated the health hazardous situation will still be present.

##### *Water*

Due to old age the pipeline framework between the buildings is severely damaged, a lot of pressure is lost due to this corrosion damage. *(see pic. 5.8.3 , app 5.8)*

The framework within the buildings is of poor quality. *(see pic. 5.8.4 , app 5.8)*

##### *Sewage*

The sewage system is an old system that has been there since the completion of the prison, connection to a public system is cut off.

The outside & inside system is in very bad condition. *(see pic. 5.8.5 – 5.8.7 , app 5.8)*

It is possible to connect this sewage system to a public sewage system.

Severely damaged sewage canals are leaking directly into the soil. *(see pic. 5.8.8 , app 5.8)*

##### *Sanitation*

The 12 showers present are of minor quality but sufficient.

Toilet facility is outdated *(see pic. 5.8.9 , app 5.8)*

Laundry & kitchen areas are in very bad condition. *(see pic. 5.8.10 - 5.8.12 , app 5.8)*

##### *Heating*

The central heating system doesn't work, the boiler is 67 years old, spare parts aren't available at all. The old system cannot be renovated. *(see pic. 5.8.13 & 5.8.14 , app 5.8)*

It's recommended to install a new central heating systems boiler.

##### *Ventilation*

The cells aren't getting enough ventilation, the system is very old and broken down.

Lack of ventilation is a serious health hazard. *(see pic. 5.8.15 , app 5.8)*

**Concluding to prior needs.**

- **Renovation of pipeline framework to maintain the basic water needs.**
- **The sewage canals need renovation, connection to public sewage system is needed.**
- **Laundry & kitchen renovation is recommended.**
- **Central heating boiler has to be connected.**
- **Ventilation issues are to be dealt with.**
- **Roof/ walking area needs to be renovated.**

<b>SIZO # 1 (Prison colony #21)</b>	sewa sanit		Cost estimate in priorities	
	Water	ge ation heating		
Full renovation of water supply system	1		€ 9.436	\$14.300
Full renovation of sewage system		1	€ 43.553	\$ 66.000
Reconstruction and full renovation of ventilation system		1	€ 21.776	\$ 33.000
Full renovation of roofing		1	€ 21.776	\$33.000
<b>Subtotal 1:</b>			<b>€ 96.541</b>	<b>\$146.300</b>
Full renovation of heating system			€132 .837	\$201.300
<b>Subtotal 2:</b>			<b>€132 .837</b>	<b>\$201.300</b>

total 1	<b>€ 96.541</b>	<b>\$146.300</b>
total 2	<b>€132 .837</b>	<b>\$201.300</b>
<b>total</b>	<b>€229.378</b>	<b>\$347. 600</b>

date	Prison	Condition of engineering communications/networks services	Remarks
23.0 2010	<p><b>Prison # 21 MPES Bishkek city</b></p> <p><b>Pretrial detention cell</b> Capacity limit – 1329 persons Capacity planned - 1250 persons</p>	<ul style="list-style-type: none"> <li>• <b>Water supply system</b> <i>First priority</i></li> </ul> <p>The system is connected to the centralized water supply system of the city but it requires major repair of outdoor network in the space from indoor network to the entry point of main system, as well as major repair of indoor water supply system.</p>	<p><b>Recommendations:</b></p> <p>Technical investigation of the water supply system is required. In accordance with the Technical Conclusions and Act of Defects developed by the Commission, there shall be major repair of outdoor and indoor water supply systems.</p>
		<ul style="list-style-type: none"> <li>• <b>Sewerage system</b> <i>First priority</i></li> </ul> <p>The prison's sewerage system was connected to the centralized sewerage system. Major repair of outdoor and indoor sewerage system has not been done for many years, and due to this fact tubes and other elements of sewerage system are partially out of order.</p>	<p><b>Recommendations:</b></p> <p>Technical investigation of the sewerage system is required. In accordance with the Technical Conclusions, there shall be major repair of outdoor and indoor sewerage system networks as well as replacement of necessary elements of indoor sewerage related equipment.</p>
		<ul style="list-style-type: none"> <li>• <b>Ventilation system</b> <i>First priority</i></li> </ul> <p>At present the ventilation system of this institution does not work. Repair of ventilation system has not been done for many years, and due to this fact ventilation boxes and other elements of ventilation system are out of order.</p> <p>Rehabilitation of the ventilation system is one of the first priorities in addressing of problems related to rehabilitation of this institution's infrastructure.</p>	<p><b>Recommendations:</b></p> <p>Technical investigation of the ventilation system is required. In accordance with the Technical Conclusions and Act of Defects developed by the Commission there shall be major repair of the ventilation system.</p>

		<ul style="list-style-type: none"> <li>• <b>Roofing system</b> <b>Medium priority</b></li> </ul> <p>Roofing system in the building is in accidental condition. Major repair has not been done for many years that led to not only to destruction of the roofing but the indoor walls and recreation yard too.</p>	<p><b>Recommendations:</b></p> <p>Technical investigation of the roofing system is required. In accordance with the Technical Conclusions and Act of Defects developed by the Commission, there shall be major repair of the roofing system.</p>
		<ul style="list-style-type: none"> <li>• <b>Heating system</b> <b>Medium priority</b></li> </ul> <p>The combined pot boiler in the boiler-room is worn out.</p>	<p><b>Recommendations:</b></p> <p>Technical inspection of the heating system is required.</p>

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#### 4.1.9 Prison colony #19

Prison colony #19: Male colony of Enhanced Security Regime

City: Jany Jer village

Date of construction: 1982

Capacity limit : 604

Capacity present: 320

##### Water

The framework of pipelines was severely damaged; the international committee of the red cross (ICRC) has replaced a part of the pipeline framework on the outside of the buildings. The inside pipelines are still in need of renovation, these pipelines are of poor quality. (see pic. 5.9.1 & 5.9.2 , app 5.9)

##### Sewage

The sewage system is an old system that has been there since the completion of the prison, connection to a public system is cut off.

There is no septic tank or connection to a public sewer system.

A man made open septic area is used for collecting the faeces. (see pic. 5.9.3, app 5.9)

An extra man made septic area is created on the premises. (see pic. 5.9.4, app 5.9)

Severely damaged sewage canals are leaking directly into the soil. (see pic. 5.9.5, app 5.9)

##### Sanitation

The showers/bath area is of poor quality but sufficient, partly renovated by own labour.

(see pic. 5.9.6, app 5.9)

##### Heating

There is no central heating system available any more. Self-made coal heating systems are used, separate in every room. (see pic. 5.9.7, app 5.9)

It's recommended to install a separate central heating systems

##### Concluding to prior needs.

- **New pipeline framework inside the buildings is needed to maintain the basic water needs.**
- **The sewage canals need renovation.**
- **Separate central heating system.**

Prison colony #19	Water	sewage	sanitation	heating	Cost estimate in priorities	
					€	\$
Full renovation of water supply system	1				€ 23.954	\$36.300
Construction of double-chamber septic tank		1			€ 21.776	\$33.000
Reconstruction and full renovation of bath and laundry facilities			1		€ 21.776	\$33.000
Full renovation of sewage system		1			€ 36.294	\$ 55.000
<b>Subtotal 1:</b>					<b>€ 103. 800</b>	<b>\$ 157.300</b>
				total 1	<b>€ 103. 800</b>	<b>\$ 157.300</b>
				<b>total</b>	<b>€ 103. 800</b>	<b>\$ 157.300</b>

date	Prison	Condition of engineering communications/networks services	Remarks
23.0 2010	<p><b>Prison # 19 MPES Jany Jer village</b></p> <p><b>Medium Security</b></p> <p>Capacity limit – 604 persons Capacity planned - 320 persons</p>	<ul style="list-style-type: none"> <li>• <b>Water supply system</b></li> </ul> <p><i>First priority</i></p> <p>Following defects were found within the water supply system:</p> <ul style="list-style-type: none"> <li>- Tubes of outdoor water supply system are severely damaged and subject to repair;</li> <li>- No pressure required that impedes delivery of required amount of water.</li> </ul>	<p><b>Recommendations:</b></p> <p>Technical investigation of the water supply system is required.</p> <p>In accordance with the Technical Conclusions and Act of Defects developed by the Commission, there shall be major repair of outdoor and indoor water supply systems.</p>
<ul style="list-style-type: none"> <li>• <b>Sewerage system</b></li> </ul> <p><i>First priority</i></p> <p>Sewerage system is completely out of order, and currently it does not work, and similarly as for all prisons the waste effluents from a canteen and bath house and laundry facilities are released to temporary not adapted cesspits.</p> <p>The penalty cell has no sewerage, water supply, and heating.</p>		<p><b>Recommendations:</b></p> <p>Technical investigation of outdoor and indoor sewerage systems is required.</p> <p>In accordance with the Technical Conclusions and Act of Defects developed by the Commission, there shall be major repair of outdoor and indoor sewerage system networks.</p> <p>One of possible options to address the problem is construction of cesspit, i.e. <b>septic tank</b>, but in this case the MPES has to address the issue of its maintenance.</p>	
<ul style="list-style-type: none"> <li>• <b>Sanitation system improvement</b></li> </ul> <p><i>First priority</i></p> <p>The institution has repaired its laundry facility at its own expenses, but sewerage system does not meet the sanitation requirements. The most relevant problem for this institution is construction or reconstruction its bath house and laundry facilities as the facility designed for bath/shower purposes is in poor condition.</p>		<p><b>Recommendations:</b></p> <p>In case of a decision to construct new bath house/laundry facility, a working design shall be developed and coordinated with all stakeholders (services of the MPES).</p> <p>A cesspit corresponding to all sanitation requirements shall be envisaged as an option.</p> <p>The issue of its maintenance shall also be addressed.</p>	

<ul style="list-style-type: none"><li>• <b>Heating system</b> <i>Medium priority</i></li></ul> <p>The centralized heating system does not work. At present the heating for this prison is secured with electricity and stove by sections.</p>	<p><b>Recommendations:</b> The electrical or combined (solid fuel) heating shall be foreseen. The load to main power supply line shall be estimated to secure fire safety.</p>
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#### 4.1.10 Prison colony #2

Prison colony #2: Female colony.  
 City: Stepnoe village  
 Date of construction: 1962  
 Capacity limit : 416  
 Capacity present: 320

##### Water

The framework of pipelines was severely damaged, the international committee of the red cross (ICRC) has replaced parts of the pipeline framework and included a water tower. The staff building still needs water. The inside pipelines are still in need of renovation, these pipelines are of poor quality. (see pic. 5.10.1, app 5.10)  
 There is no water purifier present at this location.

##### Sewage

The sewage system is an old system that has been there since the completion of the prison, a lot of damaged pipes in the building need renovation (see pic. 5.10.2, app 5.10). There is no connection to a septic tank. A man made open septic area is used for collecting the faeces. Severely damaged sewage canals are leaking directly into the soil. (see pic. 5.10.3, app 5.10).

##### Sanitation

The showers present are of poor quality but sufficient.

##### Heating

There is no heating available at all. The old system can be renovated. It's recommended to renovate the existing central heating system oven.

#### Concluding to prior needs.

- **New pipeline framework inside the buildings is needed to maintain the basic water needs.**
- **The sewage canals need renovation, connection to public sewage system is needed.**
- **Separate central heating system.**

Prison colony #2	Water r	sewage	sanitation	heatin g	Cost estimate in priorities	
					€	\$
Rehabilitation of water intake borehole	1				€ 10.624	\$16.100
Full renovation of water supply system	1				€ 19.137	\$ 29.000
Construction of double-chamber septic tank		1			€ 21.776	\$ 33.000
Reconstruction and full renovation of bath and laundry facilities			1		€ 21.776	\$33.000
Full renovation of sewage system		1			€ 36.294	\$ 55.000
Subtotal 1:					<b>€ 109.607</b>	<b>\$ 166.100</b>
				total 1	<b>€ 109.607</b>	<b>\$ 166.100</b>
				<b>total</b>	<b>€ 109.607</b>	<b>\$ 166.100</b>

date	Prison	Condition of engineering communications/networks services	Remarks
23.0 010	<p><b>Prison # 2 MPES Stepnoe village (female)</b></p> <p>Capacity limit – 416 persons Capacity planned - 320 persons</p>	<p>• <b>Water supply system</b></p> <p><i>First priority</i></p> <p>Following defects were found within the water supply system:</p> <ul style="list-style-type: none"> <li>- Outdoor water supply system's tubes are severely damaged and subject to repair;</li> <li>- No pressure required within indoor water supply system;</li> <li>- Bactericide device is missing in the borehole's equipment; and</li> <li>- The borehole station has poorly operating equipment and needs major repair.</li> </ul>	<p><b>Recommendations:</b></p> <p>The technical investigation of the water supply system is required. Based on the Technical Conclusions ,the major repair shall be done for outdoor and indoor water supply systems as well as inventory and repair of water tower borehole equipment. i.e. replacement of the pump and other necessary elements of the equipment and installation of the bactericide set.</p>
		<p>• <b>Sewerage system</b></p> <p><i>First priority</i></p> <p>The centralized sewerage system with treatment plant does not currently work as in all prisons. No technical drawings for existing outdoor sewerage networks. At present they use temporary the cesspits which do not met modern sanitation and construction standards and requirements.</p>	<p><b>Recommendations:</b></p> <p>The technical investigation of the sewerage system is required. Based on the Technical Conclusions and Act of Defects developed by the Commission, the major repair shall be done for outdoor and indoor sewerage systems Rehabilitation of the sewerage system as well as its maintenance will require enormous funds. One of possible options to address the problem is construction of a cesspit, i.e. <b>septic tank</b>, but in this case the MPES has to address the issue of its maintenance.</p>
		<p>• <b>Heating system</b></p> <p><i>Medium priority</i></p> <p>The centralized heating system does not work. At present the heating for this prison is secured with electricity and stove by sections.</p>	<p><b>Recommendations:</b></p> <p>The electrical or combined (solid fuel) heating shall be foreseen. The load to main power supply line shall be estimated to secure fire safety.</p>

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#### **4.1.11 Prison colony #23**

Prison colony #23: Karakol pre-trial detention centre.

City: Karakol.

Date of construction: 1972

Capacity limit : 142

Capacity present: 140

This colony # 23 situation is different. The high-level security prisoners are spending long hours in their cells. The ventilation system was installed by the international committee of the red cross (ICRC) there are also 2 TBC cells renovated. Food and walking areas are being built by OSCE.

It is strongly recommended that all parts of health hazardous elements must be taken care of instead of one or two. If only one or a few parts are renovated the health hazardous situation will still be present.

The buildings in this prison are 100 years old.

##### *Water*

The framework of pipelines is approximately 40 years old, this framework is severely damaged, due to old age. A lot of pressure is lost due to this corrosion damage. (see pic. 5.11.1, app 5.11)

This causes lack of water in some parts of the prison.

The framework within the buildings is also of poor quality.

A water basin is used from time to time to keep water in stock in case of pump failure. (see pic. 5.11.2, app 5.11)

##### *Sewage*

The sewage system is a 40-year-old system, connection to a public system is cut off.

This sewage system is severely damaged. (see pic. 5.11.3, app 5.11)

It is possible to re-connect this sewage system to the public sewage system.

Severely damaged sewage canals are leaking directly into the soil. (see pic. 5.11.4 & 5.11.5, app 5.11)

##### *Sanitation*

The administration building has no sewage and water connection.

Toilets for administration building are outside and in bad condition. (see pic. 5.11.6, app 5.11)

Toilets for prisoners are of very poor quality (see pic. 5.11.7, app 5.11)

The showers are of poor quality and need renovation. (see pic. 5.11.8, app 5.11)

##### *Heating*

The central heating system is still working. The pipes and radiators in the building are of good condition. The pipes in the ground are decaying; renovation is needed. (see pic. 5.11.9 & 5.11.10, app 5.11)

**Concluding to prior needs.**

- **Renovation of pipeline framework to maintain the basic water needs.**
- **The sewage canals need renovation, connection to public sewage system is needed.**
- **Central heating pipes outside needs renovation.**
- **Water and sewage for administration building.**

<b>Prison colony #23</b>	<i>Water</i> <i>sewa</i> <i>sanitati</i> <i>heatin</i> <i>ge</i> <i>on</i> <i>g</i>	<i>Cost estimate in priorities</i>	
Full renovation of water supply system	1	€ 8.116	\$12.300
Full renovation of sewage system	1	€ 23.756	\$ 36.000
Reconstruction and full renovation of ventilation system	1	€ 7.918	\$12.000
Full renovation of heating system		€ 36.294	\$ 55.000
Subtotal 1:		<b>€ 76.084</b>	<b>\$ 115.300</b>
	total 1	<b>€ 76.084</b>	<b>\$ 115.300</b>
	<b>total</b>	<b>€ 76.084</b>	<b>\$ 115.300</b>

date	Prison	Condition of engineering communications/networks services	Remarks
24.0	<p><b>Pretrial detention cell #23 MPES at Karakul town</b></p> <p><b>Pretrial detention cell - 3</b> Capacity limit – 142 persons Capacity planned - 140 persons</p>	<ul style="list-style-type: none"> <li>• <b>Water supply system</b> <i>First priority</i></li> </ul> <p>The prison's water supply system is connected to the centralized water supply system of Karakol town. Major repair of the water supply system has not been done for many years, and due to this fact tubes and other elements of water supply system are in poor condition and need major repair.</p>	<p><b>Recommendations:</b></p> <p>The technical investigation of the water supply system is required. Based on the Technical Conclusions and Act of Defects developed by the Commission, the major repair shall be done for outdoor and indoor water supply systems</p>
		<ul style="list-style-type: none"> <li>• <b>Sewerage system</b> <i>First priority</i></li> </ul> <p>The prison's sewerage system was connected to the centralized sewerage system. Major repair of outdoor and indoor sewerage system has not been done for many years, and due to this fact tubes and other elements of sewerage system are partially out of order.</p>	<p><b>Recommendations:</b></p> <p>Technical investigation of the sewerage system is required. In accordance with the Technical Conclusions, there shall be major repair of outdoor and indoor sewerage system networks as well as replacement of necessary elements of indoor sewerage related equipment.</p>
		<ul style="list-style-type: none"> <li>• <b>Ventilation system</b> <i>First priority</i></li> </ul> <p>Second housing has no the ventilation system.</p> <ul style="list-style-type: none"> <li>• <b>Heating system</b> <i>Medium priority</i></li> </ul> <p>The existing boiler room was constructed 50 years ago and currently is in poor condition.</p> <p>Tubes, fittings, and other elements need major repair.</p>	<p><b>Recommendations:</b></p> <p>Install the ventilation system based on a Working design developed for installation of ventilation system by a company certified.</p> <p>The boiler room shall be repaired, and heating system needs major repair (i.e. replacement of tubes worn out and other elements</p>

• **Sanitation system improvement.**

*Medium priority*

The bath house and laundry facilities were built in 1910 and are currently in accidental condition:

- Roofing is leaky;
- Cracks in walls; and
- Mixers and other equipments are worn out.

It has to be noted that there is equipment for laundry facility.

**Recommendations:**

Technical investigation of the facilities is required. In accordance with the Technical Conclusions and Act of Defects developed by the Commission, there shall be reinforcement of walls, repair of roofing, finishing of indoor walls and construction of indoor engineering communications.

*Mr.B.Jeenbaev*

#### 4.1.12 Prison colony #24

Prison colony #24: Naryn pre-trial detention centre.

City: Naryn.

Date of construction: 1967

Capacity limit: 40

Capacity present: 40

This pre trial prison is in a remote area.

##### Water

The framework of pipelines is approximately 40 years old; this framework is severely damaged, due to old age. A lot of pressure is lost due to this corrosion damage. (see pic. 5.12.1 & 5.12.2, app 5.12). The framework within the buildings is also of poor quality. (see pic. 5.12.3, app 5.12) The water pump used is the same one for the whole village, pressure is not enough to sustain, new pump is needed.

##### Sewage

The sewage system is a 40 year old system, damaged conduits throughout the building. (see pic. 5.12.4, app 5.12). There is no connection to a public or a septic tank. (see pic. 5.12.5 & 5.12.6, app 5.12).

This sewage system is severely damaged and leaking directly into the soil. It is possible to re-connect this sewage system to the public sewage system.

##### Sanitation

There are no toilets for the administration building.

The showers are of poor quality and need renovation. (see pic. 5.12.7, app 5.12)

Toilets for prisoners are of very poor quality (see pic. 5.12.8, app 5.12)

There is no water and sewage in the kitchen area. (see pic. 5.12.9, app 5.12)

##### Heating

The central heating system is still working. The pipes and radiators in the building are of good condition. The pipes in the ground are decaying, renovation is needed.

##### Concluding to prior needs.

- **Renovation of pipeline framework to maintain the basic water needs.**
- **The sewage canals need renovation, connection to public sewage system or septic tank is needed.**
- **Central heating pipes outside needs renovation.**
- **Water and sewage for administration building.**
- **Water and sewage kitchen area.**

Prison colony #24	sewa sanit				Cost estimate in priorities	
	Water	ge	ation	heating		
Full renovation of water supply system	1				€ 8.116	\$12.300
Construction of double-chamber septic tank		1			€ 21.776	\$33.000
Full renovation of sewage system		1			€ 21.776	\$ 33.000
Reconstruction and full renovation of		1				\$12.000



date	Prison	Condition of engineering communications/networks services	Remarks
25.0	<b>Prison # 24 MPES at Naryn town</b>  <b>Pretrial detention cell-4</b>  Capacity limit – 40 persons Capacity planned - 40 persons	<ul style="list-style-type: none"> <li>• <b>Water supply system</b> <i>First priority</i></li> </ul> <p>The prison's outdoor water supply system is connected to the centralized water supply system of Naryn town. At present there is no pressure required the reason that is huge losses within the line as well as poor operation of water pump and other equipment of the water supply system where the institution's water supply system is connected. It has to be stressed that major repair of the water supply system has not been done for many years, and due to this fact tubes and other elements of water supply system need major repair.</p>	<b>Recommendations:</b>  Technical inspection of the water supply system is required to be carried out together with experts from the municipal water supply service. Based on the Technical Conclusions and Act of Defects developed by the Commission, the major repair shall be done for outdoor and indoor water supply systems
		<ul style="list-style-type: none"> <li>• <b>Sewerage system</b> <i>First priority</i></li> </ul> <p>The prison's sewerage system was connected to the centralized sewerage system. Major repair of outdoor and indoor sewerage systems has not been done for many years, and due to this fact tubes and other elements of sewerage system are completely out of order.</p> <p>At present waste effluents from canteen and bath house and laundry facilities are released into open and not adapted pit which might lead to environmental and sanitation-epidemiological consequences.</p> <p>Some residential block houses are located nearby.</p>	<b>Recommendations:</b>  Technical investigation of outdoor and indoor sewerage systems is required. Based on the Technical Conclusions and Act of Defects developed by the Commission, the major repair shall be done for outdoor and indoor sewerage systems. An issue of connection to the municipal sewerage system or construction of a sewerage treatment plant is of high relevance. It has to be pointed that construction of the sewerage treatment plants, as well as its maintenance as we mentioned above would require great funds taking into account it's designing and implementation.
		<ul style="list-style-type: none"> <li>• <b>Heating system</b> <i>First priority</i></li> </ul> <p>The centralized heating system does not work.</p> <p>At present the heating for this prison is secured with electricity and stove.</p> <p>Major repair of the heating system has not been done for many years, and due to this all elements of the heating system are in poor condition and need major repair.</p>	<b>Recommendations:</b>  The boiler room shall be repaired, and heating system needs major repair (i.e. replacement of tubes worn out and other elements of heating system).

Mr.B.Jeenbaev

#### 4.1.13 Former hospital for skin disease

Prison: Naryn former hospital for skin disease

City: Naryn

Date of construction :

Capacity limit : 150

Capacity present: 0

This location to be renovated for the full purpose of life term prisoners only.

Life term prisoners are to be kept in a different kind of security level than is used on all the other facilities. The current situation is that all of the life term prisoners are located in different prisons all over the country, with all sorts of different regimes.

Prison SIZO # 1 (prison # 21), see chapter 4.1.8 is such a prison in which life term prisoners have to spend long hours in their cells.

The cells on each of these locations aren't suitable for intensive use due to lack on quality on different basic facility needs, keeping these prisoners in this health hazardous situation will surely result in disease.

The differences of regime and treatment difficulties for personnel put aside

The facilities of the cells in current situation are far from sufficient, to comply with internationally accepted standards for health and hygiene, renovation of these cells will be highly expensive.

The State service of execution of penalties is planning a full renovation of a former hospital for skin disease; see 4.1.13 Former hospital for skin disease.

This location will be used solely for life term prisoners.

By making a contribution on this project a contribution is made on a healthier living environment for life term prisoners and will also solve the problem of having all of these life term prisoners scattered across Kyrgyzstan. Pressure on prison staff and its locations, due to the difference in regime difficulties, including health hazardous situations for the life term prisoners are dealt with all together.

Prison colony # 49 Facility for life term prisoners (LTP) (STIs clinic)	water	sewage	sanitation	heating	Cost estimate in priorities	
					€	\$
Full renovation of water supply system	2				€ 39.791	\$ 60.300
Full renovation of sewage system		2			€ 26.396	\$ 40.000
Full renovation of heating system				2	€ 32.995	\$ 50.000
Subtotal 1:					<b>€ 99.182</b>	<b>\$ 150.000</b>
<b>Total per facility:</b>					<b>€ 99.182</b>	<b>\$ 150.000</b>

<b>total 1</b>	<b>€ 99.182</b>	<b>\$ 150.000</b>
<b>total</b>	<b>€ 99.182</b>	<b>\$ 150.000</b>

date	Prison	Condition of engineering communications/networks services	Remarks
26.0	<p><b>Building of Skin-Venereal Diseases (STIs) hospital</b> transferred to the MPES by the Naryn Government Resolution</p> <p><b>Prison # 49</b></p> <p>Capacity limit – 150 persons Capacity planned - 0 persons</p>	<p>At present “Kyrgyzdolbor” designing company has developed a Working Design for reconstruction of the STIs Hospital as a closed facility with 150 beds for prisoners with life sentence.</p> <p>Total estimated cost is KGS 67 Mio, out of those KGS 3.8 Mio were used.</p> <p>The MPES has completed the civil works on construction of roofing for the facility, and transformer substation construction is ongoing. Currently all civil works are suspended due to lack of funding.</p>	<p><b>Recommendations:</b></p> <p>The Design developed shall be coordinated with Architecture Office in Naryn as well as all stakeholder services in accordance with Kyrgyz Law.</p>

Mr.B.Jeenbaev

#### 4. Conclusion

Budget of Prison Reform Project In Kyrgyzstan allocates EUR 560.460,00 (or 849.310,00 USD) for Prison Sanitary Infrastructure and equipment (Calculation in USD is made based on the exchange rate at which the EU's contribution was recorded in the UNODC accounts, which is USD 1=EUR 0.6599. Figures in USD are subject to change)

Prices are not final one and need refinement in a detailed survey by the experts from design companies.

Refurbishment will be made in prisons # 1, # 8, #16 and #47. It has to be noted that some additional contingency expenses are possible during the projects implementation for the sake of quality completion of project activities. In this view it shall be envisaged to have as a balance 5-10% of funds out of total budget for civil works implementation. In this case the problem of infrastructure upgrading (I.e. water supply system, sewage system, as well as improvement of sanitation) is addressed comprehensively within the prisons above mentioned.

Unspent amount in balance might be used for additional projects as agreed by the EU and UNODC

<b>Prison colony #1</b>	Water	sewage	sanitation	heating	Cost estimate in priorities	
Full renovation of water supply system	1				€ 19.137	\$29.000
Rehabilitation of water intake borehole	1				€ 12.010	\$18.200
Construction of water tower	1				€ 17.157	\$26.000
Reconstruction and full renovation of bath-laundry facilities			1		€ 44.543	\$67.500
Subtotal 1:					€ 92.847	\$140.700
<b>Total per facility:</b>					<b>€ 92.847</b>	<b>\$ 140.700</b>
<b>Prison colony #16</b>	Water	sewage	sanitation	heating	Cost estimate in priorities	
Rehabilitation of water intake borehole	1				€ 18.081	\$27.400
Full renovation of water supply system	1				€ 21.116	\$32.000
Construction of double-chamber septic tank		1			€21.776	\$33.000
Reconstruction and full renovation of bath and laundry facilities			1		€ 43. 553	\$ 66.000
Subtotal 1:					€104.528	\$158.400
<b>Total per facility:</b>					<b>€104.528</b>	<b>\$158.400</b>
<b>Prison colony #8</b>	Water	sewage	sanitation	heating	Cost estimate in priorities	
Rehabilitation of water intake borehole	1				€10.096	\$15.300
Full renovation of water supply system	1				€21.118	\$ 32.000
Reconstruction and full renovation of bath house and laundry facilities			1		€21.776	\$ 33.000
Construction of double-chamber septic tank		1			€21.776	\$33.000
Subtotal 1:					<b>€ 74.766</b>	\$ 113.300
<b>Total per facility:</b>					<b>€ 74.766</b>	<b>\$ 113 .300</b>

<b>Prison colony #47</b>	Water	sewage	sanitation	heating	Cost estimate in priorities	
Full renovation of water supply system	1				€47.183	\$71.500
Full renovation of sewage system		1			€ 21.776	\$33.000
Reconstruction and full renovation of bath and laundry facilities			1		€43.553	\$66.000
Subtotal 1:					€112. 512	\$170.500
Full renovation of heating system				2	<b>€ 132.838</b>	\$201.300
Subtotal 2:					<b>€ 132.838</b>	<b>\$201.300</b>
<b>Total per facility:</b>					<b>€ 245.350</b>	<b>\$371.800</b>

<b>total</b>	<b>€ 517. 491</b>	<b>\$ 784.200</b>
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<b>balance</b>	<b>€ 42.969</b>	<b>\$ 65.110</b>
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Unspent amount in balance might be used for additional projects as agreed by the EU and UNODC