

**Environmental Monitoring Form / Social Monitoring Form**

## Pollution

Air Quality (Emission Gas/Ambient Air Quality)

Survey Data : -

Item	Measured Value (Mean)	Measured Value (Max.)	Country's Standards*1	Referred International Standards (Japan)	Remarks (Measurement Point, Frequency, Method, etc.)
SO <sub>2</sub>	A-T1 :	A-T1 :	0.5 mg/m <sup>3</sup>	0.04 ppm	-Point: the same point as the baseline survey (3 points) -Frequency: See *1 -Method: the same method as the baseline survey (3 times 2 days)
	A-T2 :	A-T2 :			
	A-T3 :	A-T3 :			
CO	A-T1 :	A-T1 :	5 mg/m <sup>3</sup>	10 ppm	
	A-T2 :	A-T2 :			
	A-T3 :	A-T3 :			
SPM	A-T1 :	A-T1 :	0.5 mg/m <sup>3</sup>	0.10 mg/m <sup>3</sup>	
	A-T2 :	A-T2 :			
	A-T3 :	A-T3 :			

\*1: Quarterly or adjusted based on air pollutant-generating activities. Semi-annually in 2 years (in-use).

Water Quality (Effluent/Wastewater/Ambient Water Quality)

Survey Data; 19, Nov,

2019

Item	Measured Value (Mean)	Measured Value (Max.)	Country's Standards*1	Referred International Standards (Japan)	Remarks (Measurement Point, Frequency, Method, etc.)
pH	W-T1 : 7.9	W-T1 : 8.03	6.5-8.5	6.5-8.5 (6.5-8.5)	-Point: the same point as the baseline survey (3 points) -Frequency: monthly -Method: the same method as the baseline survey
	W-T2 : 7.9	W-T2 : 8.08			
	W-T3 : 8.0	W-T3 : 8.00			
SS	W-T1 : 0	W-T1 : 0	<0.75	<25 mg/l (<50 mg/l)	
	W-T2 : 0	W-T2 : 0			
	W-T3 : 0	W-T3 : 0			
DO	W-T1 : 11.2	W-T1 : 11.2	>4.0	>5 mg/l (>5 mg/l)	
	W-T2 : 10.3	W-T2 : 10.5			
	W-T3 : 10.4	W-T3 : 11.5			

\*1: Country's Standards: Maximum permissible concentration (MPC) of chemicals in Water of drinking and cultural and community uses. Hygiene regulations GN 2.1.5.1315-03

Referred International Standards (Japan): Class B (Class C). Class4 (Class C applied for management standards)

## Soil

Monitoring Item / Frequency	Monitoring Results during Report Period
Monitoring of the leaking status / everyday	We checked the machine condition before work every day. It is no problem.

## Waste

Monitoring Item / Frequency	Monitoring Results during Report Period
Confirmation of the record of waste transportation / every month	<p>We transported few amount the Soil stocked at Soil stock temporary yard same as last month</p> <p>Living waste is collected at the site and transported to assignment location 1times (Approx. 10m3).</p> <p style="text-align: right;">It was checked at 22<sup>nd</sup> November</p>

## Noise and Vibration

Survey Data: -

Item	Measured Value (Mean)	Measured Value (Max.)	Country's Standards*1	Referred International Standards (Japan)	Remarks (Measurement Point, Frequency, Method, etc.)
Noise level	A-T1 :	A-T1 :	75dB	45-55 dB	-Point: the same point as the baseline survey (3 points) -Frequency: quarterly -Method: the same method as the baseline survey
	A-T2 :	A-T2 :			
	A-T3 :	A-T3 :			
Vibration level	A-T1 :	A-T1 :	83 dB	60-65 dB	
	A-T2 :	A-T2 :			
	A-T3 :	A-T3 :			

\*1: Country's Standards: Maximum allowable vibration levels of work places Category 3 - technological type "B"  
Referred International Standards (Japan): Region A (residential area)

## Odor

Monitoring Item / Frequency	Monitoring Results during Report Period
Confirmation of the record of waste management / every month	<p>Mechanics checked the condition of the construction machine every morning.</p> <p>Also, there were no complaints from local residents and workers about this until now</p> <p>It is no problem.</p> <p style="text-align: right;">It was checked at 22<sup>nd</sup> November</p>

## Natural Environment

## Ecosystem

Monitoring Item / Frequency	Monitoring Results during Report Period
Confirmation of the planting plan of archa and the implementation status of planting / when the plan is formulated and after planting	The Ministry of Transport and Roads of the Kyrgyz Republic provided the State Agency for Environmental Protection and Forestry with the obligation that the damage to the Toktogul Forestry (3 Archa trees) will be reimbursed in the proportion of 1:100.

## Hydrological Situation

Monitoring Item / Frequency	Monitoring Results during Report Period
Confirmation of water flow by visual observation / everyday	We checked the condition every day. Water Volume is not change. Higher mountain side from Site has sometimes snow too. It is melted by sunshine, but Water Volume did not change.

## Social Environment

## Living / Livelihood

Monitoring Item / Frequency	Monitoring Results during Report Period
Confirmation of living conditions and their income / every month	There are no complaints from apiary owner on living conditions and monthly income at the moment.
Confirmation of grievances / every month for two years	There are no grievances in this month.

## Land Use and Utilization of Local Resources

Monitoring Item / Frequency	Monitoring Results during Report Period
Confirmation of land use as the quarry / every month	We visited houses in Bala-Chychkan village, which are located near the stone crusher and quarry at a distance around 200 meters. Residents said that they have no complaints about the operation of the crusher and quarry, and the noise level and air quality are within normal limits. It was checked at 22 <sup>nd</sup> November

## Existing Social Infrastructures and Services

Monitoring Item / Frequency	Monitoring Results during Report Period
Confirmation of the number of grievance against the traffic congestion on the temporary road / every time when a grievance is accepted	There is no grievance. It was checked at 22 <sup>nd</sup> , November, 2019.

## Cultural Heritage

Monitoring Item / Frequency	Monitoring Results during Report Period
Confirmation of plan and implementation of the monuments of the avalanche victims / when the plan is formulated and after construction	Monuments of the avalanche victims are still being stored at DEU 23 Warehouse on 244km of Bishkek-Osh road.

## Accidents

Monitoring Item / Frequency	Monitoring Results during Report Period
Confirmation the safety and health plan / every month	We have implemented the safety gather for safety measure at November 12 <sup>th</sup> .
Report of accidents / when accidents occur	No accidents in this month. We suggest the workers to use the safety tool (Helmet, Safety Belt, Seat Belt ,etc.) usually at working time

## Infectious Diseases such as HIV/AIDS

Monitoring Item / Frequency	Monitoring Results during Report Period
Confirmation of implementation status of control of drug use and the education campaign / every month	We have explained at the Safety gather about the Diseases (Especially health control for cold weather) at 12 <sup>th</sup> November and every morning, We have implemented the Morning gather.

## Work Environment

Monitoring Item / Frequency	Monitoring Results during Report Period
Confirmation of wearing state of working clothes and helmets / everyday	We have checked the working wear at the morning gather. When someone forgot the helmet, We indicated the set of the helmet and explained the importance of the helmet by safety education.
Confirmation of implementation status of enlightening activities / every month	We implemented the Safety gather at 12 <sup>th</sup> November. And Morning Gather and exercise were implemented every day. And we confirmed each other by tool meeting every morning.
Report of accidents / when accidents occur	No accident

## Gender

Monitoring Item / Frequency	Monitoring Results during Report Period
Confirmation of the wage ledgers / every month	We checked original wage ledgers of contractor and sub-contractor. There are no wage disparities between men and women workers.

