

Semi-annual Environmental Monitoring Report

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Semi-annual Environmental Monitoring Report
July to December, 2022

Kyrgyz Republic:

CAREC Corridors 1 and 3 Connector Road, Section 2B Epkin-Dyikan [Bashkuugandy], Km: 89+500 – 159+200 Project

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Prepared for:

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Abbreviations

ADB	- Asian Development Bank
ACP	- Asphalt Concrete Plant
CAREC	- Central Asia Regional Economic Cooperation
CSC	- Construction Supervision Consultant
EMP	- Environmental Management Plan
SSEMP	- Site Specific Environmental Management Plan
PIU	- Projects Implementation Unit
m	- Meter
km	- Kilometer
KR	- Kyrgyz Republic
MPC	- Maximum permissible concentration
MAC	- Maximum Allowable Concentration
MoTC KR	- Ministry of Transport and Communication of KR
MF KR	- Ministry of Finance of the Kyrgyz Republic
MoCT KR	- Ministry of Culture and Tourism of the Kyrgyz Republic
MNRETS KR	- Ministry of Natural Resources, Environment and Technical Supervision of the Kyrgyz Republic
NTAETS	- Naryn Territorial Administration for Environmental and Technical Safety under MoNRE and TS KR
DPSSESD	- Disease Prevention and State Sanitary and Epidemiological Surveillance Department of the Ministry of Health of the Kyrgyz Republic
TR	- Terms of Reference
SR	- Safety Rules
FS	- Feasibility Study
CSP	- Crushing and Screening Plant
RME	- Road Maintenance Enterprise
HCHS	- Historical and Cultural Heritage Site;
EIA	- Environmental Impact Assessment
LP	- Labor Protection
HS	- Health Safety
LLC	- Limited Liability Company
HCHSPP	- Historical and Cultural Heritage Site Protection Project
PPE	- Personal Protective Equipment

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1. INTRODUCTION

1.1 Preamble

1. This Report present the Semi - Annual Environmental Monitoring Review for the CAREC Corridors 1 and 3 Connector Road Section 2B Epkin (Km: 89+500) - Dyikan (Bashkuugandy) (Km: 159+200) Project.
2. This report is the 8th EMR for the project covering the six-month period of the project work conducted during July – December, 2022.

1.2 Headline Information

3. The Kyrgyz Republic is a landlocked mountainous country, and regional trade is heavily dependent on road transport, which dominates the Kyrgyz transport system and heavily relies on road transport. The government of the Kyrgyz Republic asked the Asian Development Bank (ADB) to assist in financing the implementation of the CAREC Corridors 1 and 3 Connector Road Section 2B Epkin (Km: 89+500) - Dyikan (Bashkuugandy) (Km: 159+200) Project.

4. The CAREC Corridors 1 and 3 (Epkin Road Section (km 89 + 500) - Dyikan (Bashkuugandy) (km 159 + 200) Project aims to improve transport communication and market access in the Kyrgyz Republic. The Project will result in efficient movement of freight and passenger traffic along the CAREC corridors 1 and 3, improving the safety of both road users and pedestrians, and minimizing the road's environmental impact in terms of noise from passing traffic by reconstructing the asphalt pavement.

5. The Project will improve the following socio-economic indicators of the regions of the Kyrgyz Republic:

- Reduction of the passenger and freight transport cost between the southern and Issyk-Kul and Naryn regions by providing direct access.
- Reduction of transport costs due to reduced route and improved road conditions.
- Increased local and international traffic.
- Additional income opportunities for local residents.
- Creation of new jobs.
- Good condition of vehicles /Reduced operating costs

6. CAREC Corridor 1 connects the Russian Federation and Europe with the PRC; it is the only north-south highway that provides access from the central part of the Kyrgyz Republic to the rest of the country and beyond. Likewise, CAREC Corridor 3 connects the Russian Federation and Europe with Central East and South Asia. This is the only direct link between the southern and northern parts of the country, linking two large economic and agricultural centers - Bishkek capital and the country's second largest Osh town. Joining of these two CAREC corridors will link the southern regions (Batken, Jalal-Abad and Osh) with the northern regions (Chui, Issyk-Kul, Naryn and Talas) via a faster and safer alternative route and facilitate further access to international markets.

7. In connection of contractual changes, the original contractor was changed to perform construction work on the project section. The current contractor is China Railway No.5 Engineering Group Co., Ltd.; the contract was signed on September 23, 2021; the contracted work was commenced on January 15, 2022.

8. During the reporting period, activities included producing of materials for construction work such as asphalt concrete mix, concrete and crushed aggregate fractions, road maintenance, replacement of culverts, excavation of waste material from cuts, embankment; construction of subgrade, subbase and base layers; construction of binder course layer; the crushing and screening plant, the asphalt concrete plant have been installed and are operational etc; archaeological excavations were conducted studying objects of historical and cultural heritage following the Protection Zone Plan. Instrumental monitoring rounds were conducted three times during the reporting period.

9. This Report contains information on the status of activities related to the prevention adverse impacts on the environment. The observations, corrective actions, and mitigation measures presented in this report are based on a monthly visit-inspection on the project road and living and production facilities for the reporting period conducted by the Consultant's specialists.

10. All observed non-compliances are listed in section 3.3. (Issues Tracking); the inspection reports with findings communicated to the contractor to undertake corrective actions are presented in Annex 3 hereto.

11. Trends observed on results of the previous and current audits have suggested a weak environmental and safety performances by the Contractor attributed to recurrence of non-compliances. The same findings have been continually observed during the previous and current periods of reporting. The recurrent non-compliances were related to fire safety (missing of critical fire safety equipment/items at sites, trainings), untidiness in the Camp and the operational areas, no timely utilization of domestic waste, not wearing of full PPE by personnel and some other observations.

12. The contractor shall understand and be consistent in meeting the environmental safeguard requirements. Preventive controls are to be applied to eliminate these non-compliances before they are occurred. Thus, it is strongly suggested that Contractor to increase focus on environmental safeguard performance.

1.3 Camp

13. The contractor's camp is located on the municipal territory of Kuyruchuk Aiyl Okmotu, not far from the contractor's production base. The new contractor received permits from Kuyruchuk Aiyl Okmotu to use this territory.

14. The new contractor's camp territory is currently completely built up. The camp is 2.0 hectares in total. The camp contains offices, a kitchen, a canteen, consultants' residential rooms, a laboratory, a dormitory for contractor's workers, a contractor's office, an equipment maintenance workshop, parking for cars and trucks; a line maintenance hangar, security room, transformer, waste bin area (domestic and food waste), decantation tank, outdoor toilet and shower.

2. PROJECT DESCRIPTION AND CURRENT ACTIVITIES.

2.1 Project Description.

2.1.1 Project Section Location and Basic Design.

15. The project road Epkin (89 + 500 km) - Dyikan (Bashkuugandy) (159 + 200 km) is a 70-kilometer highway from east to west. This section follows the existing road to Bashkuugandy (km 159). The section belongs to the Naryn region, crosses a small western part of the Kochkor district but most of it is located in the Jumgal district. The road is in poor condition; the surface is uneven with numerous potholes covered with frequent transverse and longitudinal cracks, often with a network of cracks. There are forage and irrigation ditches, lowlands and hills with pastures along the project road section. The road follows the Jumgal River and crosses the Tugol-Sai River. The map of the project road is shown in Figure 1. Nearby villages located along the road section are listed in Table 1.

16. The road runs through the Kochkor valley, ascends to about 2600 m, which highest point is on the Kyzart Pass, after which it descends to the Jumgal depression. The section runs west to Bashkuugandy village, passes through a series of settlements interspersed with agricultural fields with a two-lane roadway configuration. These western parts of the Kochkor district represent vast sections of agricultural land intended for agriculture and livestock husbandry. The high-mountainous part is the border between the Kochkor and Jumgal districts, as well as the border of the water-parting lines of the Chui and Jumgal rivers. This high point of the road is a pass point between mountain ranges running parallel east to west of Naryn Region. The area is characterized as hilly and mountainous and covered with grasses suitable for grazing.

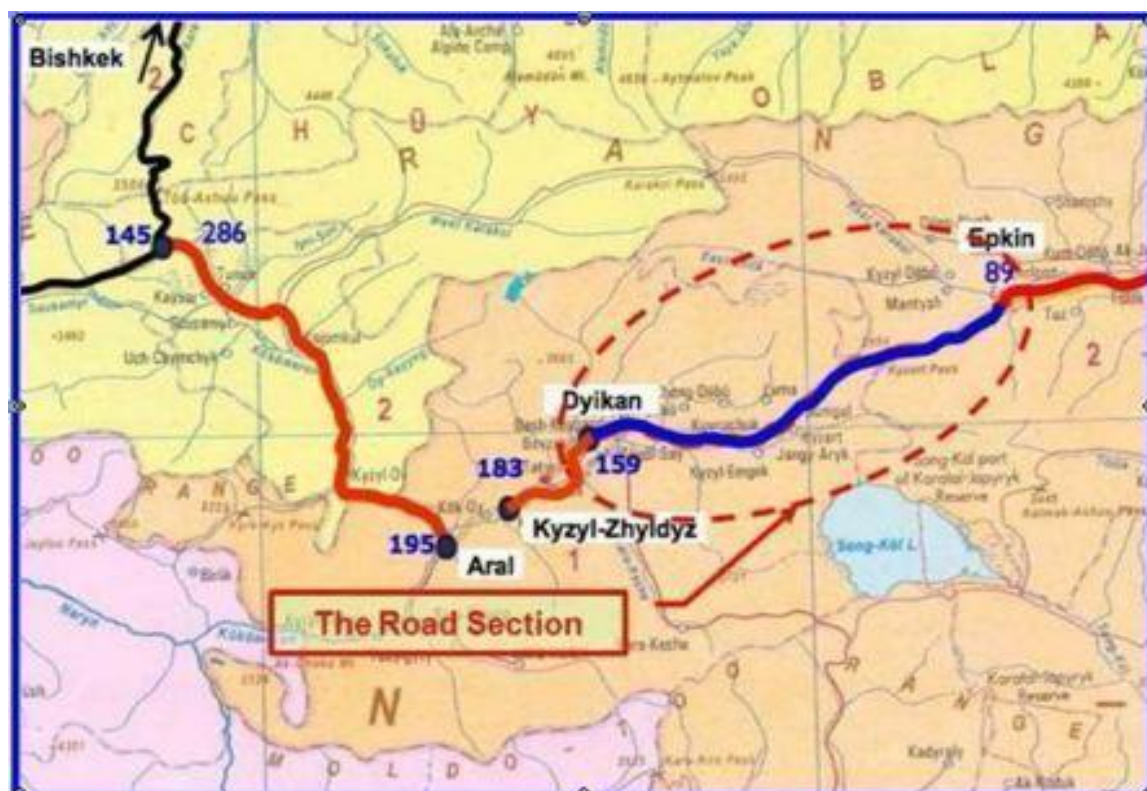


Figure 1. Map of Epkin-Dyikan (Bashkuugandy) Location.

Table 1 Names of Villages along the Project Road Section.

Region	District	Village	Section/km
Naryn	Kochkor (western part)	Epkin	Km 89+500 – Km 159+200
	Jumgal	Jumgal	
		Kuyruchuk	
		Tugol-Sai	
		Bashkuugandy	

17. Geotechnical conditions for subgrade construction on the road section between Epkin and Dyikan is favorable. The basic direction of the 70 km long road is laid mainly on the existing roadbed with gravel fill, in some places with asphalt pavement. The pavement is asphalt, mainly of 5–6 cm thick, rarely 9–10 cm. The pavement base is constructed of gravel, pebble and crushed stone soil with sandy loam and sandy aggregate.

18. The main works include earthworks, construction of culverts, reconstruction of the bridge in Tugol-Sai village (km 148+850) and asphalt pavement. In order to improve drainage systems, the work includes the reconstruction and replacement of most of the deteriorated irrigation culverts, as well as the new drainage structures construction.

19. Construction work is carried out mainly within the existing road's right-of-way, thus minimizing environmental impact. The Project includes a number of related activities, such as development of quarries, operation of the concrete plant and crushing and screening plant, the construction of a camp for workers and storage areas, etc.

20. In accordance with the Terms of Reference, the road pavement is designed for an initial design life of 10 years with options for structural overlay for a design life of 15 and 20 years.

2.1.2 Work Scope under Contract.

21. Details of the designed project road section:

- To restore and lay the project road to Technical Category II from Epkin (km 89) to Bashkuugandy (km 159) in accordance with the National Standard of Kyrgyzstan with geometric and structural requirements with an estimated speed of 90 km/h outside settlements and 60 km/h in villages.
- Reconstruction, repair and/or replacement of bridges and culverts.
- Construction of side drains and other drainage structures.
- Provision of retaining walls and riverbed protection measures, if necessary.
- Provision of proper road signs and markings.
- Provision of protective guard-rails.

22. The road was designed in accordance with the Kyrgyz geometric design standard for Category II, and, accordingly, it must be sufficient to effectively withstand the load of transport during the projected service life. In fact, it will be a two-lane road consisting of the width of the roadway (the sum of the width of the lanes) and the width of the shoulder. The design elements for the project road's cross section are as follows:

- Number of lanes: 2
- Lane width: 3.5-3.75 m
- Carriageway width: 7.00-7.50 m
- Shoulder width: 3.25–3.75 m (of which 0.50–0.75 m asphalted)
- Total road width: 15.00 m

23. Detailed engineering designs have been prepared based on topographic surveys and geotechnical studies, as well as road surface, drainage structure and bridge conditions. International standards were applied to compensate for any deficiencies in national standards. The ADB-financed road section (Epkín-Bashkuugandy) is a two-lane road with a pavement width of 6-8 meters (m), and mostly asphalt pavement in poor condition. About 70% of asphalt areas are in poor condition with potholes, cracks and broken edges, and some areas are already deteriorated down to gravel. The average roughness index is 8.33 m/km.

24. Operation of heavy and noisy machines in the vicinity of settlements was conducted during the daytime. No-vibration compaction method was utilized in residential areas and in close vicinity to cultural and historical heritage sites along the road.

25. The contract for the provision of construction supervision services was concluded between Gentek International Engineering and Consulting Limited and the Ministry of Transport and Communications of the Kyrgyz Republic on August 1, 2018.

26. The project provides for the construction and repair of the following engineering structures and communications, as well as the parameters of the scope of work.

- Asphalt pavement 103 963 m³;
- Binder with 9 cm thickness - 62225 m³;
- Wearing layer with 6 cm thickness – 41738 m³;
- Base, with 20 cm thickness – 148 771 m³;
- Lower shoulder with 20 cm thickness – 70 648 m³;
- Upper shoulder with 15 cm thickness – 61301 m³
- Subbase with 25 cm thickness – 361 612 m³

Table 2 Project Details

From	to		Total Road Length			
Km 89+500	Km 159+200		69.7 Km			
Excavation to dump	338 893.09 m ³		Unsuitable material from cuts		303 891.79 m ³	
			Rock material from cuts		34 334.30 m ³	
			Unsuitable demolition material		667 m ³	
Embankment	675 283.69 m ³		Rock embankment from cuts		7 165.34 m ³	
			Common material from the quarry		366 911.01 m ³	
			Subgrade material from borrow		295 707.34 m ³	
			Common material for road signs and backfill		5 500 m ³	
Subbase C grade, 0/40 fraction	292 447.30 m ³		Thickness on main road = 25 cm		289 392.30 m ³	
			Thickness on ramps = 25 cm		3 055 m ³	
Lower shoulder C4 grade, 0/70 fraction	71 063 m ³		Thickness on main road = 20 cm		70 648 m ³	
			Thickness on ramps = 15 cm		415 m ³	
Upper shoulder C10 grade, 0/40 fraction	62 131 m ³		Thickness on main road = 15 cm		61 301 m ³	
			Thickness on ramps = 5 cm		830 m ³	
Base I grade, 0/30 fraction	149 681 m ³		Thickness on main road = 20 cm		148 771 m ³	
			Thickness on ramps = 15 cm		910 m ³	
Asphalt pavement	103 275 m ³		Binder Thickness = 9 cm		61 965.00 m ³	
			Wearing layer Thickness = 6cm		41 310.00 m ³	
Drainage	Open drain		Closed PVC drain		Closed drain, non-PVC	
	Excavation for 19 878 m ³		1 363 m		3 000 m	
Sulphate-resistant culverts, B30	D = 1.0 m	D = 1.5 m	D = 3.0x2.5 m	D = 2.0x2.0 m	D = 2x3.0x2.5 m	
	1 026.63 m	613.64 m	10 m	27 m	11 m	
Reinforcement	10.63 t		Bridge		28.87 m	

2.2 Project Contracts and Management.

27. A scheme of the organizational structure and management of project activities is shown in Figure 2. Representatives of the main organizations involved in the project and related to environmental protection are listed in Table 3. List of the representatives currently involved in the organization and implementation of the project work have been updated and shown in Tables 4 and 5.

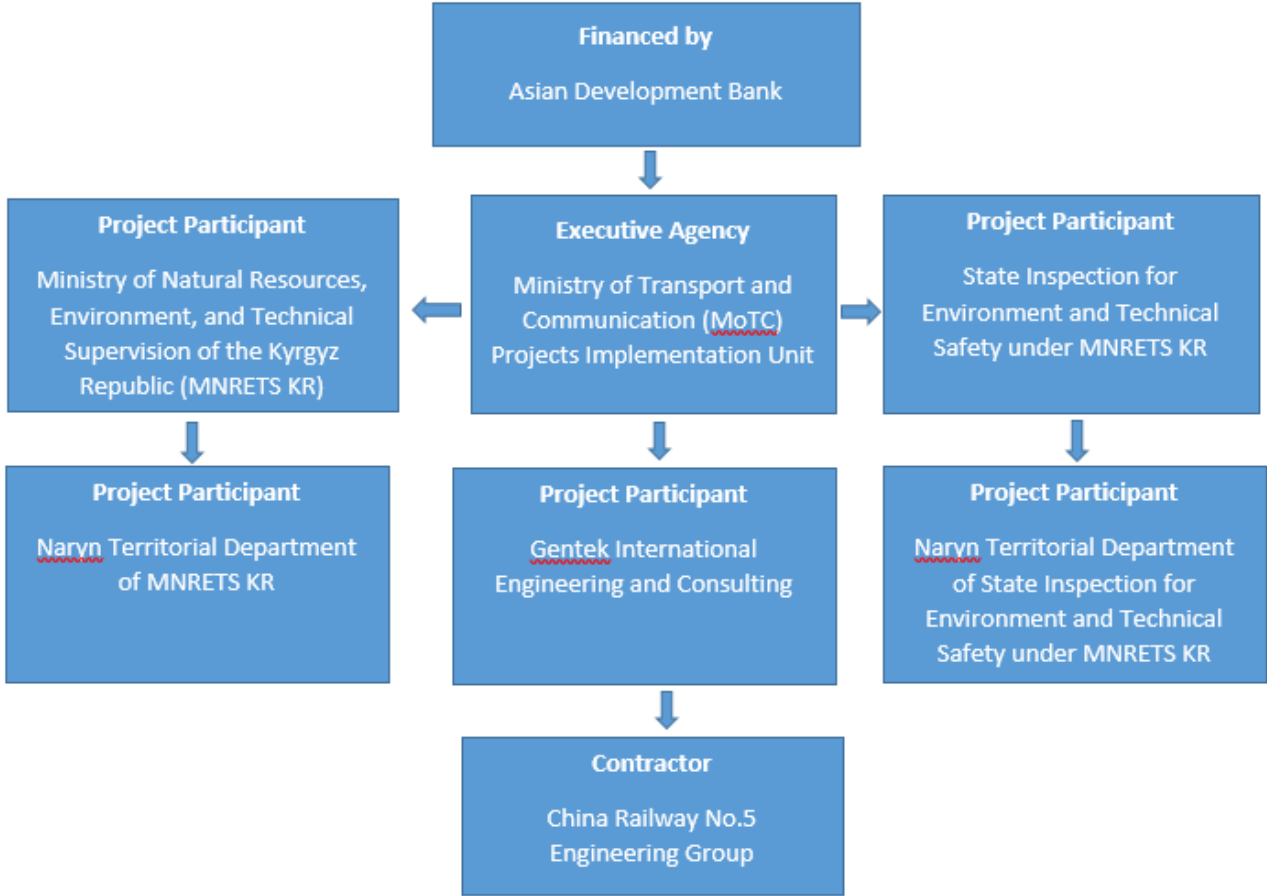


Figure 2 Project Organizational Structure and Management.

Table 3 Main organizations involved in the project.

No	Name of company	Activities in the project	Responsible persons for environmental protection	Contact details
1	ADB	Country Environmental Focal	Ninette R. Pajarillaga	npajarillaga@adb.org
2	ADB	National Environmental Consultant	Sultan Bakirov	Sbakirov.consultant@adb.org
3	PIU MoTC KR	Environmental Specialist	Abdygulov Asylbek	asylbeka@piumotc.kg
4	Gentek Consulting Company	International Environmental Specialist	Garajayeva Nargiz	nargiz.garajayeva@gmail.com
5	Gentek Consulting Company	National Environmental Specialist	Zhumaliev Talantbek	take0978@mail.ru
6	Contracting company: China Railway No. 5 Engineering Group Co., Ltd	Environmental Specialist	Nurlan Nurdinov	nnurdinov78@mail.ru

Table 4 List of Key Consultant's Employees.

<i>International Employees</i>	
Senior Highway Engineer / Team Leader	Selcuk Mutlu
Pavement and Materials Engineer	Jamil Zokhrabov
Structural Engineer	Punhan Mirzaev
Road Safety Engineer	Ercan Duymaz
Social development and Resettlement Specialist	Saim Tuzlu
Contract Specialist	Rufat Mammadov
Environmental Specialist	Nargiz Garajayeva
<i>National Employees</i>	
Highway Engineer/Deputy Team Leader	Shekeev Omurbek
Pavement and Materials Engineer	Alymkulov Ulanbek
Structural Engineer	Moldogaziev Nasyr
Quality Assurance Engineer	Sultangaziev Rysbek
Quantity Engineer	Alymkulov Joodar
Road Safety Engineer	Toktomushev Bolotbek
Social and Resettlement Specialist	Omorbekov Azamat
Environmental Specialist	Zhumaliev Talantbek
Hydrological Drainage Specialist	Ashymbekov Talantbek

Table 5 List of Key Contractor's Employees.

#	Position	Professional qualifications	Personnel
<i>International Employees</i>			
1	Project Manager	Road and Bridge Engineering	Zhang Liang
2	Executive Deputy Manager	Road and Bridge Engineering	Hu Huihui
3	Site Deputy Manager	Road and Bridge Engineering	Su Chenghong
4	Civil Engineer	Transportations and Civil Engineering	Du Moufu
5	Structural Engineer	Road and Bridge Engineering	Li Hong
6	Equipment Plant Engineer	Mechanic Engineering	Li Xiaoke
7	Engineering Department	Engineering	Zhang Zhongyi
8	Materials Engineer	Engineering	Zhai Penghui
9	Commerce Department	Engineering	Liu Linhai
10	Surveyor	Engineering	Yu Jiansong
11	Earthwork Team	Engineering	Zhao Xin
12	Pavement Team	Engineering	Yang Tongfeng
<i>Local Employees</i>			
13	Environmental Specialist	Ecology and Nature Management	Nurdinov Nurlan
14	HSE Engineer	Engineering	Uzbekov Kanatbek
15	Social Development and Public Relations Specialist	Road Engineering	Kamchybekov Maksat
16	Archaeologist	History & Archaeology	Soltobaev Orozbek
17	Traffic safety engineer		Kozhomkul Abylabekov

28. The details of the contract of the contracting company responsible for the road construction work are shown in table 6 below.

Table 6 Project Contracts and Management.

Project	Kyrgyz Republic: CAREC Corridors 1 and 3 Connector Road Project
Contractor	China Railway No.5 Engineering Group Co. Ltd.
Road Section:	89 + 500km - 159 + 200km, total length 70km
Donor:	Asian Development Bank.
Contract signing date:	23.09.2021
Executive Agency	Ministry of Transport and Communications of the Kyrgyz Republic
Commencement Notification	
Completion Date	
Completion period - days	2,5-years (30 month) or (900days)
Time Extension - days	-
Warranty period - days	3 years
Contract Amount	US\$ 39,100,002.18
The intermediate payment minimum amount, USD (2%)	2% of the Accepted Contract Amount.
The total advance payment amount	15% Percentage of the Accepted Contract Amount payable in the currencies and proportions in which the Accepted Contract Amount is payable
Bank guarantee amount	The performance security will be in the form of an unconditional bank guarantee in the amount of 10 % of the Accepted Contract Price.
Third party insurance amount	1,000,000 US Dollars per occurrence with the number of occurrences unlimited
Insurance submission deadlines a) insurance certificate b) relevant policies	Periods for submission of insurance: 28 days 28 days
Penalties for late completion of work	0.05%of the Contract Price per day, in the currencies and proportions in which the Contract Price is payable.
Maximum amount of penalties for delay	10.0% of the Contract Price.
Reimbursement of depreciation and prepayment	30%
Limitation on deduction of money	10% of the accepted Contract amount
Retention rate	10% of the amount of the Interim Payment Certificates

2.2.1 Project Contracts and Management.

29. Relevant institutions working with the project include:

- Ministry of Finance of the Kyrgyz Republic (MF),
- Ministry of Transport and Communication of the Kyrgyz Republic (MoTC)
- Investment Projects Unit (PIU) under MoTC,
- Ministry of Energy and Industry of the Kyrgyz Republic (MoEI)
- Ministry of Natural Resources, Environment and Technical Supervision of the Kyrgyz Republic (MNRETS)
- Department of Disease Prevention and State Sanitary and Epidemiological Surveillance of the Ministry of Health of the Kyrgyz Republic (DDPSSSES).

30. MoTC is responsible for the development of the transport sector and is the Executing Agency (EA) for the project. MoTC has overall responsibility for planning, design, implementation and monitoring of the project. PIU works under MoTC and performs tasks assigned by the MoTC.

31. MF KR is the authorized government body responsible for coordinating with ADB and other donors regarding foreign aid issues.

32. MNRETS is the leading environmental state agency responsible for state policy in this area and coordinating the actions of other government agencies in these matters. Its functions include:

- development of environmental policy and its implementation;
- carrying out state ecological expertise;
- issuance of environmental licenses;
- environmental monitoring;
- provision of environmental information services.

33. MoEI monitors compliance with:

- I. environmental legislation, established rules, limits and norms for the use of natural resources, standards for emissions and discharges of pollutants and disposal of waste in the environment;
- II. industrial safety requirements for construction, expansion, reconstruction, technical re-equipment, operation, conservation and liquidation of hazardous production facilities;
- III. requirements of land legislation;
- IV. safety requirements for equipment and facilities for storing and dispensing oil products and gases, lifting cranes;
- V. requirements for the rules of safe operation during construction, installation and adjustment of electrical networks and electrical equipment.

34. DDPSSSES supervises the sanitary and epidemiological welfare of the population, safety of goods, products, environmental objects and conditions, prevention of the harmful effects of environmental factors on human health.

2.3 Project Activities during Current Reporting Period.

2.3.1 Road Construction Works.

35. During the reporting period, the following work has been carried out throughout the project area:

- Production of asphalt concrete mix, concrete and crushed aggregate fractions;
- Maintenance of the existing road (grubbing and clearing, installation of temporary road signs, appropriate measures considering season related complications: dust suppression in dry weather, application of anti-icing substances on roadway in winter);
- Existing asphalt pavement break up and removal;
- Cut excavation;
- Embankment;
- Construction om subgrade, subbase and base layers;
- Construction of binder course layer;
- Completion of installation of previously started culverts, as well as laying of new culverts.

36. The Contractor's work plan is currently going through revision and approval process for the construction season in 2023, the plan in Table 7 below is the most recent one and subject to changes.

Table 7 Contractor's Work Plan.

TASK NAME	FROM KM	TO KM	LENGTH	START	END	PERIOD
CONSTRUCTION OF THE PROJECT				15-01-22	3-07-24	900
MOBILIZATION				15-01-22	15-04-22	91
RELOCATION				1-06-22	15-11-22	168
TELEGRAPH POLE	89+500	159+200	69 700	1-06-22	15-11-22	168
UNDERGROUND CABLES	89+500	159+200	69 700	1-06-22	15-11-22	168
UNDERGROUND WATER MAIN	89+500	159+200	69 700	1-06-22	15-11-22	168
CULVERTS	129+300	157+100	27 800	25-05-22	30-11-22	190
	110+728	118+961	8 233	1-08-22	20-11-22	112
	118+961	129+300	10 339	20-03-23	1-08-23	135
	89+500	110+728	21 228	2-08-23	1-10-23	61
BRIDGE			1	1-04-23	31-10-23	214
RETAINING WALL	142+962	159+200	16 238	15-08-22	12-11-22	90
	127+740	128+675	935	20-03-23	30-03-23	11
CUT EXCAVATION	117+200	119+500	2 300	1-08-22	31-10-22	92
	111+400	114+260	2 860	1-04-23	1-08-23	123
SUBGRADE	129+200	159+200	30 000	25-04-22	21-09-22	150
	89+500	129+200	39 700	1-04-23	30-10-23	213
SUBBASE	129+200	159+200	30 000	7-05-22	28-09-22	145
	99+200	129+200	30 000	25-04-23	20-10-23	179
	89+500	99+200	9 700	25-03-24	17-04-24	24
BASE	134+200	159+200	25 000	18-06-22	29-09-22	104
	99+200	134+200	35 000	25-04-23	7-10-23	166
	89+500	99+200	9 700	10-04-24	23-04-24	14
BINDER COURSE	134+200	159+200	25 000	27-06-22	6-10-22	102

	99+200	134+200	35 000	30-04-23	14-10-23	168
	89+500	99+200	9 700	19-04-24	14-05-24	26
WEARING COURSE	134+200	159+200	25 000	21-07-22	20-10-22	92
	99+200	134+200	35 000	17-05-23	26-10-23	163
	89+500	99+200	9 700	15-05-24	3-06-24	20
ROAD SHOULDER	134+200	159+200	25 000	16-07-22	28-10-22	105
	99+200	134+200	35 000	1-04-23	15-11-23	229
	89+500	99+200	9 700	5-05-24	13-06-24	40
ANCILLARY WORKS				1-09-22	15-05-24	623
LONGITUDINAL DITCHES	89+500	159+200	5 000	1-09-22	1-05-24	609
SIDE WALKS	89+500	159+200	5 000	1-09-22	15-05-24	623
BUS STOPS PCS, TOILET	89+500	159+200	16	1-08-23	15-05-24	289
ROAD SIGNS	134+200	159+200	25 000	12-09-22	11-11-22	61
	99+200	134+200	35 000	1-07-23	25-11-23	148
	89+500	99+200	9 700	20-03-24	20-06-24	93
ROAD MARKING	89+500	159+200	69 700	1-09-23	15-06-24	289
LIGHTING INSTALLATION	89+500	159+200	69 700	1-08-23	1-06-24	306
SNOW FENCE	89+500	159+200	69 700	1-09-23	1-04-24	214
METAL GUARDRAILING	89+500	159+200	69 700	1-09-23	1-05-24	244
REINFORCED CONCRETE PARAPETS	89+500	159+200	3 861	1-08-22	1-05-23	274
HAND OVER	89+500	159+200	69 700	15-06-24	3-07-24	18



Figure 3 Site Works.

37. Table 8 provides the information on the volume and percentage of the work done at the project site from 01.07.2022 to 31.12.2022. Operations were mainly carried out on the following sections of the construction road:

- 1) km089+500 – km095+000
- 2) km106+000 – km122+000
- 3) km133+000 – km136+000
- 4) km137+200 – km142+000
- 5) km144+100 – km148+700
- 6) km150+400 – km159+200

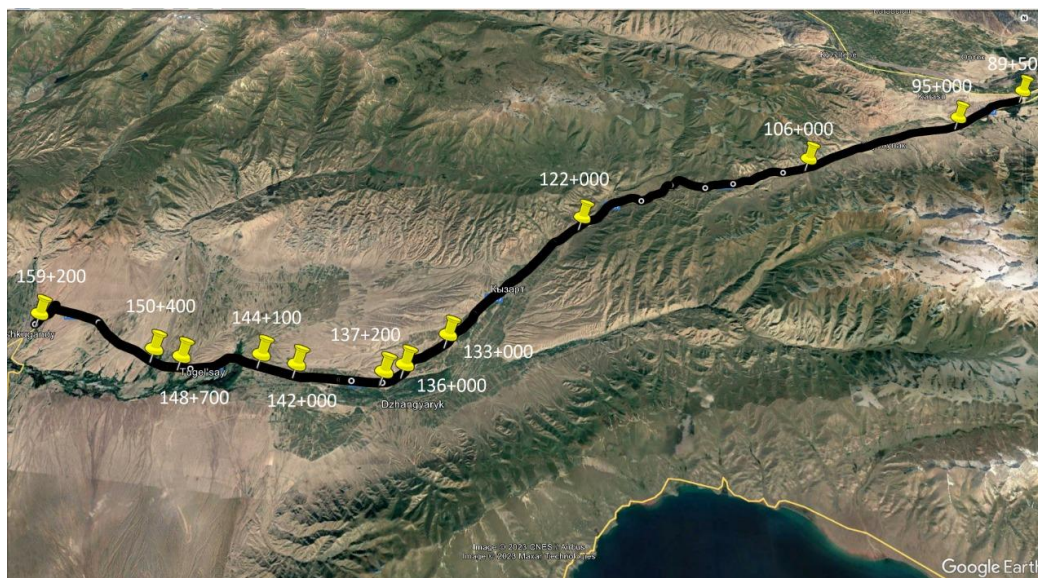


Figure 4 Map of the road sections active work conducted, July-December 2022

Table 8 Scope of the main work performed for 01.07.2022- 31.12.2022.

Description	Unit	Quantity			%	
		By BoQ	Actual	Remaining	Actual	Remaining
Grubbing and Clearing	ha	40.97	4,08	36.89	11,7%	88,3%
Existing asphalt pavement break up and removal	m ³	10 832.72	515.19	10 317.53	4,76%	95,24%
Cut Excavation	m ³	338 893.09	71 944,87	266 948,22	21,23%	78,77%
Embankment	m ³	379 576.35	50 604,57	328 971.78	13,33%	86,67%
Subgrade	m ³	295 707.34	22 793.28	272 914.07	7.71%	92.29%
Subbase	m ³	289 392.30	26 442.76	262 949.54	9.14%	90.86%

38. The statistics on main construction work planned and performed in accordance with the schedule are shown in table 8.

Table 9 Planned & actual main work item quantities

Work Item	BOQ Quantity	Planned Quantity	Actual Quantity	Planned %	Actual %	Variance %	Planned Completion Date
Drainage							
Culverts (m)	1688.27	700	588	41.5	34.8	6.7	01.08.2023
Open Drain (m3)	20,258.00	-	-	-	-		01.05.2024
Subsurface Drain (m)	4,363.00	-	-	-	-		
Retaining Walls							
Concrete Walls (m3)	232.00	-	-	-	-		
Earthworks							
Clear & Grub (ha)	40.97	5.0	4.08	12.2	11.7	0.5	31.07.2023
Cut Excavation (m3)	338,226.09	75000	71533.26	22.2	20.1	2.1	31.08.2023
Embankment (m3)	374,076.35	58600	52,294.82	15.7	13.9	1.8	31.08.2023
Subgrade (m3)	285,707.34	28000	25,472.63	9.8	8.9	0.9	13.10.2023
Pavement							
Sub base (m3)	292,447.30	28000	26,442.76	9.6	9.1	0.5	13.10.2023
Base (m3)	149,681.00	45000	39989.93	30.1	26.7	3.4	26.10.2023
Low. Shoulder (m3)	71,063.00	4000	3452.73	5.6	4.9	0.7	06.11.2023
Up. Shoulder (m3)	62,131.00	-	-	-	-		10.05.2024
Shoulder Total (m3)	133,194.00	4000	3452.73	3	2.6	0.4	20.06.2024
Binder (m3)	61,965.00	13000	12290.22	20.9	19.8	1.1	20.06.2024
Wearing (m3)	41,998.00	-	-	-	-		29.04.2024
Asphalt Total (m3)	103,963.00	13000	12290.22	12.5	11.8	0.7	31.05.2024
Bridge 1							
Foundation (%)							
Substructure (%)							
Superstructure (%)							

39. The Contractor's workplan for Year 2022 included the completion of construction of the 25 km road at the Wearing Layer level. However, as of today only 15.5 km of that road section have

been completed at the Binder Layer level. The delay in completion of the work is attributed to several reasons including: a) intensive rainfall in the area which prevented the initiation of construction activities on site in May 2022; b) no sufficient manpower could be obtained from local labor resources; and c) mobilization of the asphalt plant was delayed due to the safety precautions taken at the country borders following restrictions imposed during COVID-19 pandemic. In addition, some logistic issues like inability to establish a proper bitumen supply chain had an impact on the project realization schedule. As already mentioned above, since the workplan for the Year 2023 is still under revision, the existing assets necessary for completion of the workplan will be evaluated in the revised workplan.

40. During the late autumn and winter the ambient temperature drops below 5⁰ C that is not suitable weather for asphalt construction. Activities in the middle of November and December 2022 were mainly consisted of construction of structures, subgrade, rock excavation, production and storage of crushed stone materials, and winter maintenance of road.

41. High dust formations due to dry weather are heavily impacting air quality as well as increasing traffic risks. Therefore, dust suppression is carried out to mitigate impact and risks in the areas where construction works are being carried out and in the roads in vicinity of the settlements located along the project site. The dust suppression plan was updated on 30th June 2022 considering increasing number of water tanks utilized in summer. The plan is attached in Annex 1.

42. 10 - 12 water trucks were utilized to suppress a high dust during summer and early autumn, whereas 8 trucks were used in the autumn; and currently dust suppression is being executed using 3 water trucks.

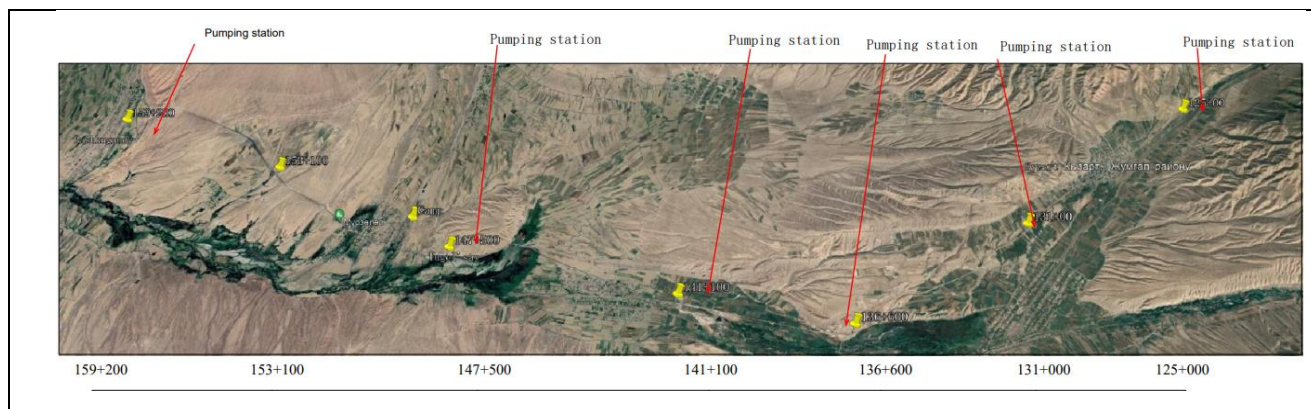


Figure 5 Water intake points for dust suppression along a project road

43. The water used for dust suppression is taken from the points of Tugol-Sai river, Canal on the left side (km 147+540), Zhumgal river, Kyzart river, and Kara suu in the vicinity of the Bashkuugandy, Tugol-Sai, Kuyruchuk, Zhumgal, and Ak-Uchuk villages.



Figure 6 Dust suppression on roads.

2.3.2 Quarries.

44. On the project road (Epkin-Dyikan section, km 89-159), 13 sites were allocated for quarries. The Contractor received all the necessary permits/approval from local authorities, and the Ministry of Natural Resources, Environment and Technical Supervision of the Kyrgyz Republic (MNRETS). The MoTC KR received an entrusted permit for all quarry sites from the State Committee for Industry, Energy, and Subsoil Use under the Government of the Kyrgyz Republic (SCIESU under GKR). Table 8 shows the main characteristics of the quarries.

45. The quarries' areas are in suitable condition. Currently, four quarries are operated: at km 148+630 (located in the Tugol-Sai village area), at km 140+900 (the Kuyruchuk village area), at km 135+280 (the Jany-Aryk village area), and at km 91+360 (the Cholpon village area). GIS locations of the quarries' areas are shown below.

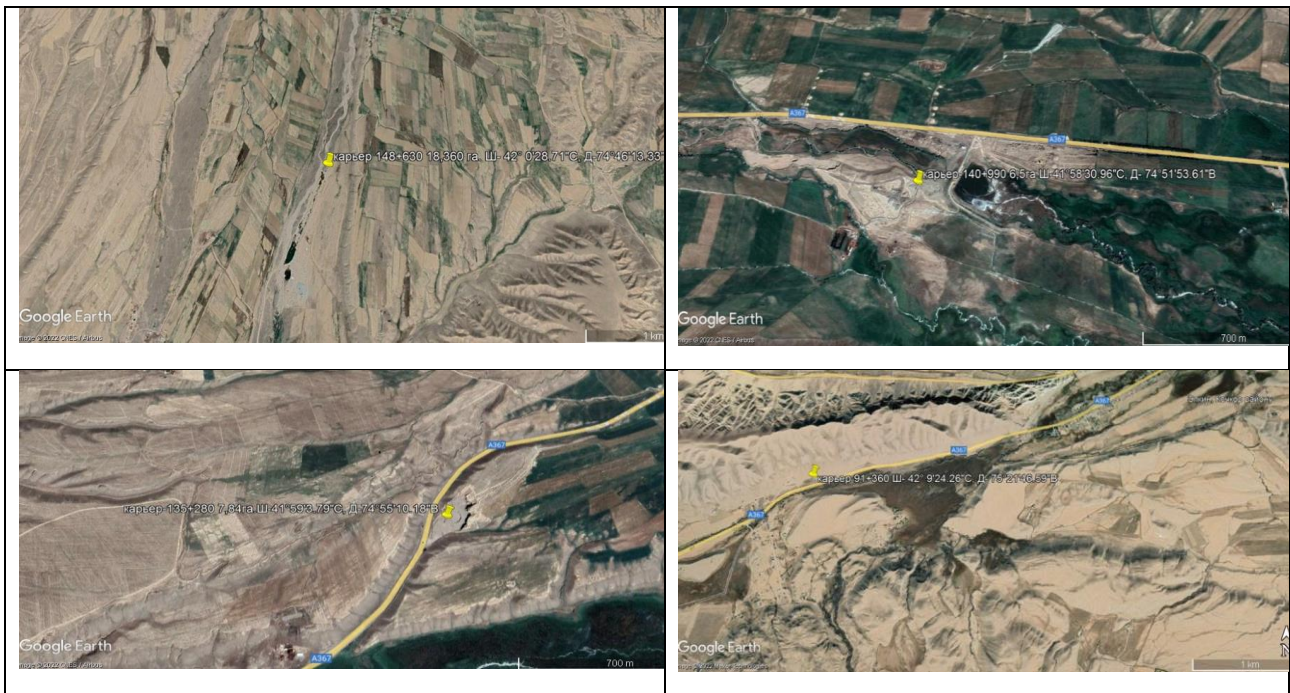


Figure 7 GIS locations of the quarries' areas.



Figure 8 Road construction activities

46. The main characteristics of the quarries are shown in Table 10.

Table 10 Characteristics of Quarries.

No.	Quarry	Up to Km by the road	About the road axis (m)	Object characteristics		Location of quarries	Note
				Production volume (m ³)	Area (ha)		
1	Quarry №1	91+680	RHS 222m	100 000	11.2	Cholpon v.	being developed
2	Quarry №2	92+630	RHS 550m	200 000	15.6	Cholpon v.	Not being developed
3	Quarry №3	94+080	RHS 25m	60 000	1.04	Cholpon v.	Not being developed
4	Quarry №4	100+790	RHS 85m	150 000	1.8	Cholpon v.	being developed
5	Quarry №5	106+350	LHS 78m	80 000	2.5	Cholpon v.	being developed
6	Quarry №6	106+420	RHS 250m	150 000	3.3	Cholpon v.	Not being developed
7	Quarry №7	110+900	RHS 94m	100 000	2.1	Cholpon v.	being developed
8	Quarry №8	112+870	RHS 27 m	56 000	5.08	Semiz-Bel v.	Not being developed
9	Quarry №9	133+000	RHS 320m	150 000	0.93	Jany-Aryk v.	being developed
10	Quarry №10	135+280	LHS 25m	200 000	0.64	Jany-Aryk v.	being developed
11	Quarry №11	140+900	LHS 212m	97164.92	6.5	Kuyruchuk v.	being developed
12	Quarry №13	148+630	RHS 1800m	800 534.9	18360	Tugol-Sai v.	being developed

2.3.3 Storage Areas (Spoil Areas).

47. All spoil areas used by the previous Contractor after the termination of the Contract were handed over to the local authorities (Ayil Okmotu) under the Handover and Acceptance Certificate. With the resumption of road construction by the new Contractor, the same spoil areas will be used on the road section. Table 9 lists the characteristics of the areas approved for dumping.



Figure 9 Quarry development.

Table 11 Storage Areas.

№	Object location		Village area	Remarks
	Km	Distance from the road		
1	158+400	317 m RHS	Bashkuugandy	
2	158+540	108 m RHS	Bashkuugandy	
3	158+550	5 m LHS	Bashkuugandy	
4	157+300	150 m LHS	Bashkuugandy	
5	155+800	320 m RHS	Bashkuugandy	
6	154+800	186 m LHS	Tugol-Sai	
7	152+760	940 m LHS	Tugol-Sai	Denied
8	152+760	87 m LHS	Tugol-Sai	

9	151+140	11 m RHS	Tugol-Sai	
10	150+960	66 m LHS	Tugol-Sai	
11	150+840	104 m RHS	Tugol-Sai	
12	149+000	RHS	Tugol-Sai	Private land
13	147+540	LHS	Kuyruchuk	
14	143+610	421 m – 694 m RHS	Kuyruchuk	
15	140+990	122 m LHS	Kuyruchuk	
16	136+940	435 m RHS	Dzhany-Aryk	
17	132+860	315 m RHS	Dzhany-Aryk	
18	130+840	31 m RHS	Dzhany-Aryk	
19	121+620	49 m LHS	Dzhany-Aryk	
20	120+310	37 m LHS	Dzhany-Aryk	
21	117+520	78 m LHS	Dzhany-Aryk	
22	110+660	85 m RHS	Cholpon	
23	100+940	91 m LHS	Cholpon	
24	106+720	55 m LHS	Cholpon	
25	106+540	49 m RHS	Cholpon	
26	93+980	66 m RHS	Cholpon	
27	91+360	45 m RHS	Cholpon	
28	98+190	21 m LHS	Cholpon	
29	103+060	16 m RHS	Cholpon	
30	112+600	45 m LHS	Semiz-Bel	
31	113+970	33 m LHS	Semiz-Bel	
32	115+850	60 m LHS	Semiz-Bel	

48. During the project period, spoil areas located in the Kuyruchuk village's private field have been continued to use:

- 1) km157+300:150m on the left side,
- 2) km112+600: 45m on the left side,
- 3) km136+940: 45m on the right side,
- 4) km112+600: 45m on the right side,
- 5) km110+660: 85m on the right side,
- 6) km 93+980: 66m on the right side.

2.3.4 Production Site Territory.

49. The production site of the Contractor China Railway No.5 is defined on the territory of the Kuyruchuk ayil okmotu not far from Tugol-Sai village at km 148+630.

50. Permits for the use of this territory were received from Kuyruchuk Aiyl Okmotu (for the camp - Order No. 52, Resolution No. 3, Act dated 20.12.21, a letter No. 02-4/155, conclusion No. 53, and a camp schematic layout. For asphalt plant and crushing and screening plant -Order No. 14, a letter No. 01-1/434, conclusion No. 6).

51. The following buildings and structures are located on the production site: Asphalt plant, crushing and screening plant (Crusher), storage area for bulk materials - crushed stone and sand, concrete unit, hangar for storage of fuels and lubricants, transformer substation, checkpoint, a platform for garbage containers, outdoor toilets, a sump, a dormitory for the workers of the asphalt plant, and the crushing and screening plant.

52. The production site shall be fenced off in accordance with the Plan. In accordance with SSEMP requirements, these objects are located at a distance of at least 500 m from nearby houses, and in order to avoid potential contamination at least 50 m from water sources.



Figure 10 Asphalt plant at the production site.



Figure 11 Camp site

53. During the reporting period, the asphalt plant and the crusher have been installed and are operational (km 148+630). Camp area being cleared and occupied by employees working on project.

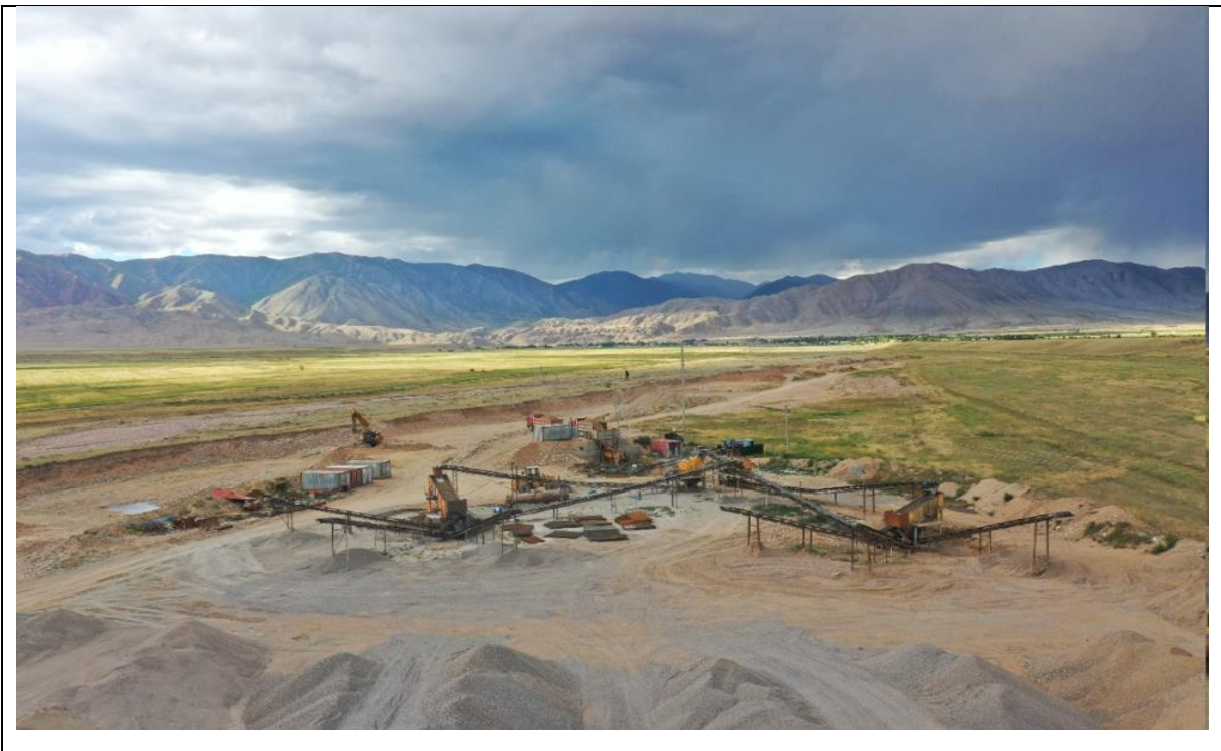


Figure 12 Crusher at the production site.

2.3.5 Camp.

54. The Contractor's camp is located in the municipal territory of the Kuyruchuk Ayil Okmotu. Permits to operate the territory as a camp were obtained from the Kuyruchuk Ayil Okmotu.

55. The territory of the new Contractor's camp has been built up completely. The camp is located in the area of 2 hectares. The camp area includes: offices, a kitchen, canteen, Consultants' residential rooms, laboratory, a dormitory for the Contractor's workers, a Contractor's office, an equipment maintenance workshop, parking lot for cars and trucks a line maintenance hangar, security room, transformer, temporary garbage bins, decantation tank, and toilet and shower.

56. The present total number of employees living in the camp is 25 persons.

57. Potable water used in the camp is supplied in 18-L bottles from Balykchy city by the company "Shoro".

58. Sewage is collected in the fixed septic tanks. As soon as filled, they will be taken out to Balykchy city for further treatment and disposal; Solid waste is disposed to the landfill of Tugol-Sai village on the basis of the agreement.

2.4 Description of Any Changes to Project Design.

59. No changes were made in the overall project design within the reporting period.

60. In order to reduce the impact of road construction on historical sites near Altin- Arik km 136+020-km 137+200 in Jumgal district, it was decided to change axis design of this section. The road will be widened on the left side stretches to marshland; non-vibration methods are to be applied in this construction section due to the existence of historical sites on both sides of the road.

61. Construction variabilities related to new detour roads and addition new culverts have been applied as a practical tool to manage a process of construction. Thus, new detour road for the bridge at the km 148+847 was decided to construct due to technical feasibility and increase number of culverts for detour road construction with addition 3 more to the previous list. Above stated did not affect on overall design.

2.5 Description of Any Changes to Agreed Construction Methods.

62. No changes were made in the agreed construction methods within the reporting period.



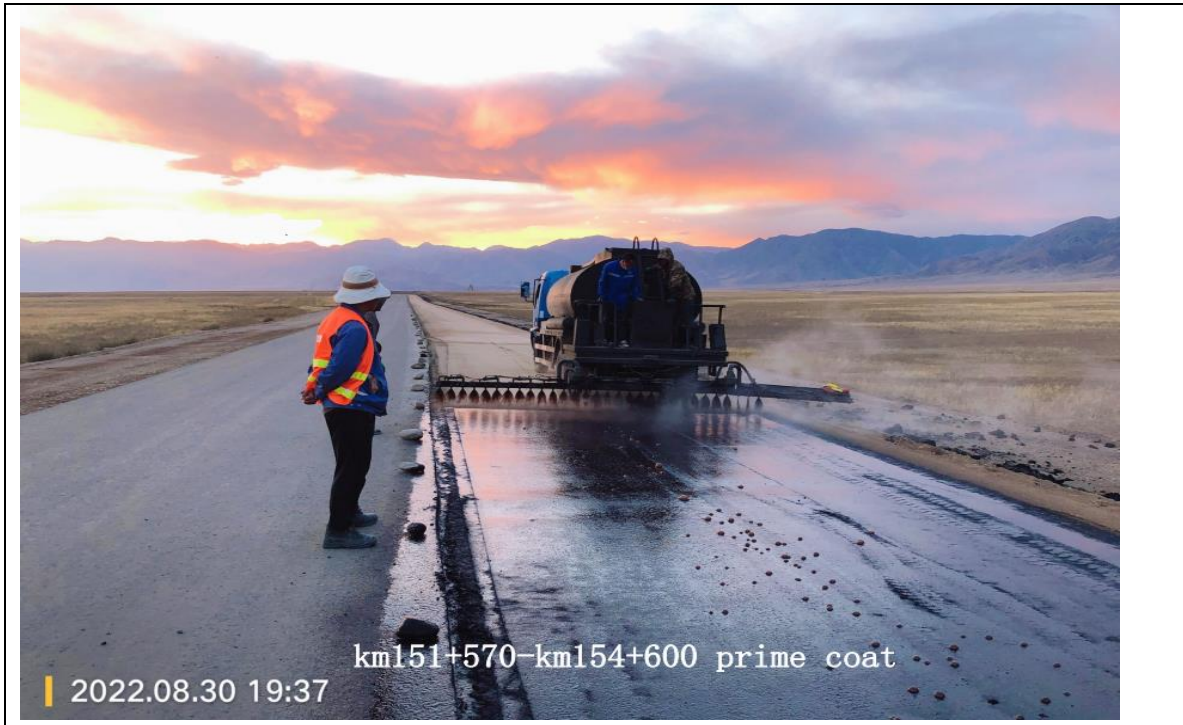


Figure 13 Constuction activities on project road.

3 ENVIRONMENTAL SAFEGUARD ACTIVITIES.

3.1 General Description of Environmental Safeguard Activities.

63. During the reporting period, monthly monitoring of the project site was carried out by local environmental and HSE specialists of the Consultant. Inspections of the condition of the project road, quarry sites, spoil areas, sampling points for measurements, as well as the area of the production base and the contractor's camp were conducted.

64. There was increased dust formation occurred in dry weather during summer and early autumn in some parts of the road with heavy traffic (especially heavy-duty vehicles). Increased dust limits visibility on the roads as well as negatively affects the ambient air and public health. 10 to 12 water tanks were utilized to spray water along the project road in dry weather, up to 8 water tanks were used in autumn and only 3 were used in December. The following measures are undertaken at the sites to mitigate a negative impact from dust formation:

- All water trucks have been equipped with pumps. This measure supports rapid intake of water from the rivers and speeding up the turnover of watering process;
- In order to minimize dust generation at the project sites, the contractor was instructed to adjust the dust suppression schedule considering the air temperature;
- Speed must not exceed 30 km per hour on the roads with active construction.





Archaeological Objects of Historical and Cultural heritage.

65. During the design stage, in accordance with the legislation of the Republic of Kyrgyzstan, the project “CAREC Corridors 1 and 3 Connector Road, Section 2B Epkin-Dyikan [Bashkuugandy], Km: 89+500 – 159+200” has passed through the environmental and government expertise (Госстройэкспертиза). In total, 38 objects have been described as the objects of historical and cultural heritage (OHCH). Out of hem: 18 mounds were recommended for surveys prior to the process of road construction and 20 mounds during the construction.

66. Since then, several archaeological excavations have been carried out along the project route. The most recent extensive archaeological survey was conducted in the second quarter of 2022 and included dating and interpreting objects and sites of historical interest. The detailed report describing all the findings revealed on OHCH during this survey is presented in the relevant sections of the Semi-annual Environmental Monitoring Report, January-June 2022 “CAREC Corridors 1 and 3 Connector Road, Section 2B Epkin-Dyikan [Bashkuugandy], Km: 89+500 – 159+200 project” and available for readers via the ADB internet site.

67. To prevent any potential direct and/or indirect impact to the objects of historical and cultural heritage located along the project road construction areas, the following actions would be recommended:

- 1) Install information boards/signs in the protection zones of the OHCH;
- 2) Conduct routine monitoring of the OHCH during the whole period of project work;
- 3) Employ the archaeologist with overall responsibilities to survey and ensure that the objects of historical and cultural heritage located on project route are preserved.



Figure 14 Road Maintenance Work

68. During the reporting period, no tree-felling work was carried out. The trees will still have to be felled at the sections located in the areas of widening, alignment of the road, and in the areas of new culvert construction. The planting of new seedlings in a ratio of 1:2 is envisaged as compensation measure. The choice of tree species for planting instead of felled ones has been

determined: preferably 5 species characteristic of the given habitat - birch, pyramidal poplar, populus, blue spruce, and elm.

69. With the construction work commencement, China Railway No.5 will carry out tree marking with the participation of the Consultant and local authorities. The need for maximum efforts to be able to preserve the existing green spaces was communicated to the environmental specialist of the contracting company.

70. Tree planting plan has not been completed yet since not all the trees subject to removal have been removed. Hence, the tree planting process was re-scheduled for spring 2023.

3.2 Site Audits.

71. On-site inspections/audits carried out by the Consultant Local Environmental Specialist and Contractor Environmental Engineer at the project site during the reporting period are shown in Table 12.

Table 12 Inspections/Audits of the project area.

No	Date of Visit	Auditor name	Purpose of Inspection/Audit	Summary of any Significant Finding
1	15.07. 2022	Zhumaliev T. Nurdinov N	Visual inspection monitoring to ensure compliance with environmental requirements at construction sites, quarries, spoil areas, the territory of the residential camp and the production site. Visit conducted jointly with the Contractor's environmental specialist	Keep the camp clean and tidy; regularly manage waste removal activities Maintain environmental and safety posters in the camp Oral warning was made to the contractor's relevant personal during the visit.
2	27.08.2022	Zhumaliev T. Nurdinov N	Visual inspection monitoring to ensure compliance with environmental requirements at construction sites, quarries, spoil areas, the territory of the residential camp and the production site. Visit conducted jointly with the	Maintain vehicles in way not to spill oil/diesel on ground; Clean ground immediately in case any spillage occurred. Oral warning was made to the contractor's relevant personal during the visit.

			Contractor's environmental specialist	
3	24.09.2022	Zhumaliev T. Nurdinov N	Visual inspection monitoring to ensure compliance with environmental requirements at construction sites, quarries, spoil areas, the territory of the residential camp and the production site. Visit conducted jointly with the Contractor's environmental specialist	<p>Follow fire safety requirements; Provide a complete fire shield in the Camp and production area: barrels with sand, a bucket, a shovel and other fire safety related equipment;</p> <p>To arrange a fenced designated place for collection and storing waste to meet compliance criteria</p> <p>Oral warning was made to the contractor's relevant personal during the visit.</p> <p>The official letter listing non-compliances were communicated to the Contractor.</p>
4	26.10.2022	Zhumaliev T. Nurdinov N	Visual inspection monitoring to ensure compliance with environmental requirements at construction sites, quarries, spoil areas, the territory of the residential camp and the production site. Visit conducted jointly with the Contractor's environmental specialist	<p>Remove an old asphalt form the vicinity of the quarry area (km 94+080) to the internal roads of the nearby villages with the approval of the aiyl-okmotu.</p> <p>Oral warning was made to the contractor's relevant personal during the visit.</p> <p>The official letter listing non-compliances were communicated to the Contractor.</p>
5	26.11.2022	Zhumaliev T. Nurdinov N	Visual inspection monitoring to ensure compliance with environmental requirements at construction sites, quarries, spoil areas, the territory of the residential camp and the production site. Visit conducted jointly with the Contractor's	<p>Keep territory of the camp and the production base clean; remove oil contamination from the ground; maintain vehicles to minimize any exhaust and spill.</p> <p>Oral warning was made to the contractor's relevant personal during the visit.</p> <p>The official letter listing non-compliances were communicated to the Contractor.</p>

			environmental specialist	
6	22.12.2022	Zhumaliev T. Nurdinov N	Visual inspection monitoring to ensure compliance with environmental requirements at construction sites, quarries, spoil areas, the territory of the residential camp and the production site. Visit conducted jointly with the Contractor's environmental specialist.	To pay attention to waste management performance- remove garbage on time, keep the camp and production base clean and safe; Recording- maintain the waste utilization logs. Full PPEs to all personnel. Place fence on active construction sites to prevent material fall. Warning was made to the contractor's relevant personal during the visit. The official letter listing non-compliances were communicated to the Contractor.

72. Findings observed during the Consultant's audit were communicated to the contractor for corrective actions. Total 15 non-compliances were raised from them 11 were corrected (closed), 4 actions are remained open/ongoing and their developments should be monitored during the future inspections/audits. Status of non-compliances and corrective actions is also shown in figure 16.

73. Tables 15 summarizes the findings observed during the formal audit conducted by Consultant and Contractor's environmental specialists and status per end of December, 2022.

ADB Mission.

74. The representatives of ADB visited the construction sites, a territory of the residential camp and Contractor's production site on November 2, 2022, as part of the mission within the framework of the ongoing project "CAREC Corridors 1 and 3 Connection Road Section 2B, Epkin – Bashkuugandy". Findings and comments were identified during the mission, and then they were communicated via official letter for subsequent corrective actions. Table 16 summarizes findings observed during the review missions.



Figure 15 ADB review mission at the project site, November 2, 2022.

3.3 Issues Tracking (Based on Non-Compliance Notices).

75. Fifteen findings were observed, out of them 14 were closed, 1 remained open/ongoing; summary overview is shown in the table below (table 13).

Table 13 Overview on findings observed during July- December, 2022

	Non-compliance identified	SSEMP Number and date of notification	Best Practice Guidelines Applicable (No.)	Particular issue and location	Contractor's actions (specify)	Results of Inspection	Status for December 2022
1	Fire safety	Annex (xii) – Camp and Workshop Management Plan Annex (xiii) – Material Processing Plants/ Equipment and Storage Facilities Plan Gentek Ref.: September 01, 2022/158		On the territory of the production base and the camp, fire safety was not fully organized (a complete fire shield: barrels with sand, a bucket, a shovel and other fire safety related equipment)	Contractor has included a missing items: sand, fire buckets and shovels	Contractor's Ref.# CR5-ED-171. Dated: 13.09.2022	Resolved
2	Waste management	Annex (ix) – Solid and liquid Waste Management Plan a) Gentek Ref.: September 01, 2022/158 b) Repeated		Cleanliness was not properly maintained on the territory of the camp and the production base. Domestic and other waste spread out from designated area.	The Contractor's household waste was removed; the camp territory has been cleaned as an action for non-compliance communicated.	a) Contractor's Ref.# CR5-ED-171. Dated: 13.09.2022 b) Contractor's Ref.# CR5-ED-195 Dated: 25.10.2022	Resolved

		<p>letter Gentek Ref.: October 17, 2022/184</p> <p>c) Gentek Ref.: November 28, 2022/215</p>		To set fenced designated place for waste to meet compliance criteria			
3	Oil spills on ground	<p>Annex (xii) – Camp and Workshop Management Plan</p> <p>a) Gentek Ref.: September 01, 2022/158</p> <p>b) Repeated letter Ref.: October 17, 2022/184</p>		At the production base, diesel /oils were spilled into the ground at the parking lot for heavy vehicles; there is no specially designated area for collecting this type of waste.	The camp territory has been cleaned. Area set up.	<p>a) Contractor's Ref.# CR5-ED-171. Dated: 13.09.2022</p> <p>b) Contractor's Ref.# CR5-ED-195 Dated: 25.10.2022</p>	Resolved
4	Electrical safety	<p>Annex (xii) – Camp and Workshop Management Plan</p> <p>Gentek Ref.: September 01, 2022/158</p>		At the production base, the electrical panel is made of wood that is not safety	The electrical panel has been replaced by one of metal	Contractor's Ref.# CR5-ED-171. Dated: 13.09.2022	Resolved
5	Storing Oil drums	<p>Annex (xii) – Camp and Workshop Management Plan</p> <p>Gentek Ref.: September 01, 2022/158</p>		At the production base, oil drums are not properly stored (no proper foundation platform available, drums uncovered)	The emulsifier barrels beside the Contractor's asphalt mixing plant are padded with wooden	Contractor's Ref.# CR5-ED-171. Dated: 13.09.2022	Resolved

					boards and covered.		
6	Improper design	Annex (xii) – Camp and Workshop Management Plan Gentek Ref.: September 01, 2022/158		The generator is not fenced at the production base.	The generator in the production base has been fenced	Contractor's Ref.# CR5-ED-171. Dated: 13.09.2022	Resolved
7	Improper storage	Annex (xii) – Camp and Workshop Management Plan. The Law of the Kyrgyz Republic "Fire safety" No. 78 dated June 7, 2016 Gentek Ref.: October 15, 2022/170		Batch of coal was stored at the camp territory in the close vicinity of the canteen that is unsafe toward health and safety of the employees working in the area.	Batch of coal has been relocated in a proper place	Contractor's Ref.# CR5-ED-192. Dated: 15.10.2022	Resolved
8		Annex (vi) - Borrow Pit Management Plan. Section 8. a) Gentek Ref.: October 15, 2022/170 b) Repeated letter Ref.: October 17, 2022/184		Old asphalt stored at the quarry area (km 94+080) that is not acceptable. It should be removed to the internal roads of the nearby villages with the approval of the aiyl-okmotu, or to spoil areas based on approved requirements.		a) Contractor's Ref.# CR5-ED-192. Dated: 15.10.2022 b) Contractor's Ref.# CR5-ED-195 Dated: 25.10.2022	Resolved

9	Safety violations	SSEMP Section 4. Organization of work and staffing Gentek Ref.: November 28, 2022/215		Old oxygen cylinders are scattered in the vehicle repair workshop.	Territory of the Camp and the production base have been cleaned		Resolved
10	Improper storing of materials	Annex (xii) – Camp and Workshop Management Plan Gentek Ref.: November 28, 2022/215		Firewood and coal piles stored together mixed with construction materials in the territory of the camp	Territory of the Camp and the production base have been cleaned		Resolved
11	Waste management	Annex (ix) – Solid and liquid Waste Management Plan Gentek Ref.: December 28, 2022/227		The territory of the camp and the production base is not kept clean. To open the log for registration of the collection and disposal of waste		Contractor's Ref.# CR5-ED-234. Dated: 12.01.2023	Resolved for this action. These issues will be monitored during future audits
12	Maintenance of vehicles to minimize emissions and spill	SSEMP, 6.4 EMP Gentek Ref.: December 28, 2022/227		Regularly conduct technical maintenance of vehicles to minimize emissions to atmosphere and spill on the ground	the Contractor has established a system of daily equipment maintenance and guarantee. The Contractor will continue to strengthen the maintenance of project equipment.	Contractor's Ref.# CR5-ED-234. Dated: 12.01.2023	Resolved for this action. These issues will be monitored during future audits

13	PPE	Annex (xii) – Camp and Workshop Management Plan Gentek Ref.: December 28, 2022/227		To provide all working personnel with a full PPE; monitor that PPE in good condition and personnel wear it	the Contractor's safety engineer will strengthen supervision activities to improve performance and prevent improper wearing or working without PPE.	Contractor's Ref.# CR5-ED-234. Dated: 12.01.2023	Resolved for this action. These issues will be monitored during future audits
14	Safety instructions	Annex (xii) – Camp and Workshop Management Plan Gentek Ref.: December 28, 2022/227		To conduct safety instruction for the working personnel on a regular basis.			These issues will be monitored during future audits
15	Safety instructions	Annex (xii) – Camp and Workshop Management Plan Gentek Ref.: December 28, 2022/227		To provide the excavation sites with strong fences around them to protect against accidental falls.	The Contractor's excavation sites are equipped with road safety signs, with excavation depths within safety scope normally. The Contractor's excavation sites are in line with the design and specification requirement	Contractor's Ref.# CR5-ED-234. Dated: 12.01.2023	Resolved

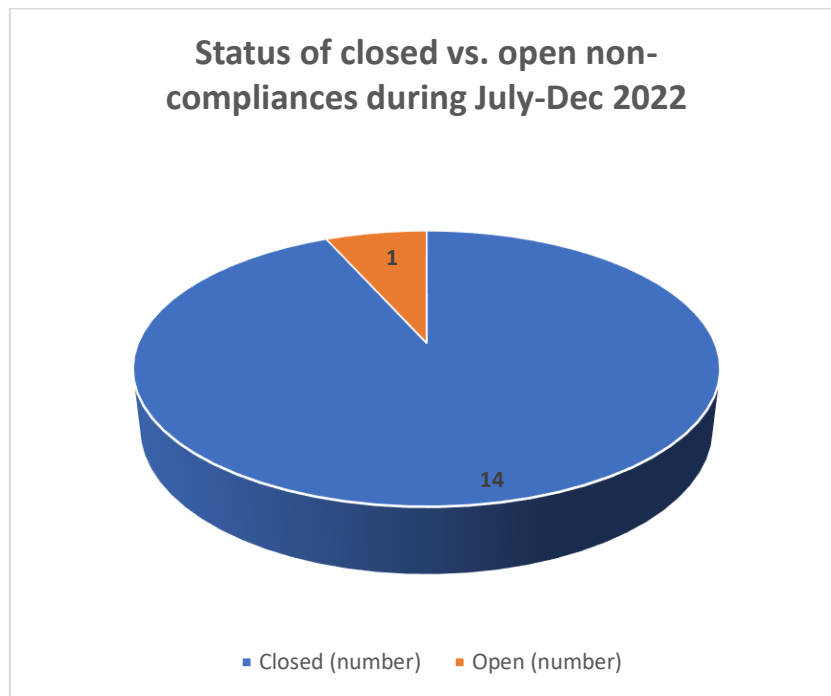


Figure 16 Status of Non-compliances and Corrective Actions.



Figure 17 Observation of improper storage of coal at the Camp

Table 14 Non-conformances identified during a review mission by ADB representatives, November 2022.

	Description of non-compliances	Status for December 2022
1	The gas station and the welding shop should be separated from each other by the fence	Not resolved yet
2	The workers should be supplied with a full PPE	A response from Contractor was that the warehouse is equipped with sufficient personal protective equipment. The PPEs have been provided to each employee as well as consumables such as gloves. The contractor shall strengthen supervising the workers so they wear a proper PPE at work.
3	The concrete should be poured in the places where pipes are laid at the asphalt plant (asphalt concrete plant) to avoid potential spillage onto the ground	The contractor plans to perform this work in the beginning of the new construction season in 2023 since this work is to be done under optimal weather conditions when temperature is convenient for pouring concrete.
4	All permits necessary for the land plot to be used for a newly planned Crushing and Sorting Installation of the Contractor.	According to the Contractors' environmental specialist Nurdinov N. currently activities fulfilled to receive permits for utilization of the land for the newly planned crushing plant.
5	Archaeologist's conclusion or a brief report on study and identification of the objects of the historical and cultural heritage on this project site is to be provided by the end of year 2022.	Negotiations are ongoing to obtain the summary report from the archaeologist.

Overview and Description of the Problems Observed during the Current Period.

76. During the reporting period, the focus was on the following issues:

- The road construction work has been carried including earthwork, construction of structures and pavements; production of asphalt concrete mix, concrete and crushed aggregate fractions, cut excavation, embankment, completion of installation of previously started culverts, as well as laying of new culverts and other relevant activities.
- Key personnel list has been updated and submitted by the Contractor.
- Monthly inspections of environmental safeguard have been conducted along the project area. Findings, non-compliant with the criteria established for the construction project were communicated to Contractor for corrective actions. During the reporting period, the Contractor has followed the requirements of the contract and technical specifications on environmental performance. Most findings were closed and evidences provided. However, as it was described above in the report a fact of recurrences of a range of non-compliances were frequently observed. It is suggested to undertake a risk-based approach to prevent this gap in the future and continually improve performance.
- Insufficient fire safety, waste utilization activities, and housekeeping; oil leaks on the soil in the Camp/production site area, missing of PPEs or parts of it, safety performance are the areas an improvement strongly suggested.
- Disposal of old asphalt, improper temporary storage of excavated old asphalt.

Summary of Observed Issues

77. Monthly inspection of the project site was conducted, based on the results of the inspection, notifications have been addressed for correction of non-compliances. Recommendations on mitigation measures were proposed to eliminate or reduce risks.

Table 15 Summary of Issues Tracking Activity for Current Period

Total Number of Issues for Project	24
Number of Open Issues	1
Number of Closed Issues	23
Percentage Closed	96%
Issues Opened This Reporting Period	15
Issues Closed This Reporting Period	14

3.4 Trends.

78. Analysis of trends in relation to non-compliances observed during the previous and current audits suggested a weak environmental and safety process performance toward occurrences of non-compliances. There are continually recurrences of some non-compliances recorded. As seen from the table 13 the same findings are observed during following audits conducted by the Consultant's environmental specialist. These recurrences are particularly related to fire safety, trainings, tidiness and timely utilization of waste, wearing of full PPE by personnel and some other. The contractor shall understand and be consistent in meeting the environmental safeguard requirements. Preventive controls are to be applied to eliminate these non-compliances before they are occurred. Thus, it is strongly suggested to increase focus on environmental compliance performance.

Table 16 Trends on issues observed, 1-4 Q 2022

Quarterly Report No	Total No of Issues	% issues closed	% issues closed late
1	7	100	0
2	24	75	-
ADB & PIU review mission	34	65	-
3	6	100	-
4	13	95	-
ADB Mission, Nov 2022	5	60	

Comment: Re-occurred individual findings are taken into account in the table.

79. There was recurrence of non-compliances observed during the reporting period. The recurrences were related to waste management, failure to wear personal protective equipment, housekeeping. These compliance actions shall be monitored throughout the further inspections/audits.

3.5 Unanticipated Environmental Impacts or Risks.

80. The risks were identified and covered in the SSEMP document, no new risks have been identified during the reporting period.

4 RESULTS OF ENVIRONMENTAL MONITORING.

4.1 Overview of Monitoring Conducted during Current Period.

81. Environmental monitoring of noise, vibration, surface water quality, and air quality have been conducted during three following months in August, September, and October 2022.

82. Instrumental measurements of noise and vibration were carried out by commercial laboratory ProfiLab LLC; air quality and surface water quality were evaluated by the laboratory of chemical-analytical research under the Ministry of Health of the Kyrgyz Republic. Dates of sampling and analyses are shown in table 17.

Table 17 Instrumental Monitoring Dates

	Monitoring name	Date of monitoring	Date analyses conducted
1	Noise and Vibration		11-Aug-22
			14-Sep-22
			28-Oct-22
2	Surface Water Quality	2-Aug-22	12-25 Aug, 2022
		15-Sep-22	16-28 Sep, 2022
		26-Oct-22	27 Oct- 02 Nov, 2022
3	Air Quality	10-Aug-22	12-18 Aug, 2022
		15-Sep-22	19-21 Sep, 2022
		26-Oct-22	27-28 Oct,2022

83. Outcomes of instrumental monitoring measurements implemented during the reporting period are presented in sections 4.1.1. to 4.6 below in the report; original laboratory reports are attached in Annex 2.

4.1.1 Noise and Vibration Impact Monitoring.

84. The noise and vibration instrumental tests were implemented by the specialists of the ProfiLab LLC laboratory. Noise and vibration levels were measured at 4 points along the planned project road in the vicinity of settlements:

Point 1. Tugol-Sai v., west side of the Kutman store

Point 2. Tugol-Sai v., the north-eastern side of the Asphalt plant and Crusher

Point 3. Kuyruchuk v., near the Azamat store

Point 4. Jumgal v., near the school

85. Noise and vibration measurements were carried out with the Ecophysics 110A digital vibrometer calibrated in accordance with the standard. Three measurements were taken at each point with an interval of approximately 2 hours between measurements.

86. Noise measurements were carried out in accordance with GOST 23337-2014 "Noise. Methods for measuring noise in the residential area and in the premises of residential and public buildings." GOST 20444-2014 "Traffic flows. Methods for determining the noise characteristic."

87. Vibration measurements were carried out in accordance with GOST 31319 "Vibration. Measurement and evaluation of human exposure to whole-body vibration."

88. The outcomes of instrumental noise measurements showed that at the time of the measurements, the noise levels at points near the road in August were 46 and 68 dBa; in September 48 to 65 dBa, in October 70 to 90 dBa.

89. The outcomes of instrumental measurements of vibration from traffic flow on roads showed levels between 86 to 97 dB; in September 89 to 98 dB, in October 76 to 99 dB. The detailed results of noise and vibration impact monitoring are given in Annex 2.



Figure 18 Instrumental Monitoring on Project Road

4.1.2 Surface Water Quality Monitoring.

90. Sampling and test of surface water quality was carried out by specialists from the laboratory of chemical-analytical studies of the Department of Disease Prevention and the State Sanitary and Epidemiological Surveillance under the Ministry of Health of the Kyrgyz Republic. Measurements of water transparency, the content of oil products and suspended solids were carried out during the reporting period.

91. The samples were taken at 3 points:

Point 1. Water from the Tugol-sai river, RHS

Point 2. Water from the irrigation canal at km141+874 Kuyruchuk village

Point 3. Water from the daily pondage basin at km 140+600 Kuyruchuk village

92. Laboratory tests were carried out in accordance with the "Rules for the Protection of Surface Waters of the Kyrgyz Republic" of the Government of the Kyrgyz Republic dated March 14, 2016, No. 128 and the hygienic standards "Maximum allowable concentration limits (MAC) for chemicals in the water of water bodies for household-drinking and utility needs of public", dated April 11, 2016, No. 201.

93. The concentrations of suspended solids in August in Tugol-sai were 6.8 mg/dm³; in the irrigation channel-14.8 mg/dm³; in the pond basin- 14 mg/dm³, all exceeding the MAC of 0.7 mg/dm³. Other parameters were within levels established as norms. In September and October no MAC levels were exceeded by any parameter measured. The outcomes of surface water monitoring are given in Annex 2.

4.1.3 Air Quality Monitoring.

94. Sampling and tests of air quality was carried out by specialists from the Laboratory of Chemical Analytical Research of the Department of Disease Prevention of the State Sanitary and Epidemiological Surveillance under the Ministry of Health of the Kyrgyz Republic. Measurements of dust, nitrogen dioxide, sulfur oxide, and carbon monoxide were performed during the reporting period.

95. The samples were taken at 4 points:

Point 1. Tugol-Sai village, on the west side of the Kutman store

Point 2. Tugol-Sai village, north-eastern side of the Asphalt plant and Crusher

Point 3. Kuyruchuk village, near the Azamat store

Point 4. Jumgal village, near the school

96. Laboratory tests were carried out in accordance with the guidelines for the control of atmospheric pollution. The concentrations of the studied parameters in ambient air were within established levels in all monitoring rounds. Only exceptions were the elevated levels of NO₂ in September and October 2022. NO₂ in September samples exceeded MAC up to 1,2 times; in October exceeded levels varied between 1,9 and 2,2 times. The monitoring outcomes are presented in Annex 2.

4.2 Trends.

97. The rounds of instrumental tests (monitoring of noise, vibration, atmospheric air and water) have been carried out during the reporting period (in August, September, and October 2022).

98. Levels of noise near the road exceeded the MAC level of 70 dB in October round of monitoring (range in October was 70 to 90 dBa), however they were within the established MAC level in August and September.

99. Vibration levels were below MAC limits of 108 dB.

100. Generally, there were not negative trends observed in the measured parameters of surface water, the only exceptions were elevated concentrations of suspended solids in some samples of surface water.

101. Air quality parameters were within MAC levels, however there was increase in levels of NO₂ at some sampling points.

4.3 Summary of Monitoring Outcomes.

102. The sampling and analyses of noise, vibration, surface water quality, and ambient air quality were carried out in the assigned locations in August, September and October. The reports with detailed results of monitoring studies are presented in Annex 2.

103. Noise and Vibration Impact Monitoring: The results of instrumental noise measurements showed that at the time of the monitoring, the noise level at points near the road were similar in August and September laying in range from 46 to 68 dBa and from 48 to 65 dBa, respectfully. Levels measured in October were 70 to 90 dBa (i.e above of MAC established as 70 dBa). Overall vibration levels from traffic flow on project roads were below MAC of 108dB and ranged from 76 to 99 dB.

104. Surface Water Quality Monitoring: All parameters measured in surface water samples taken at assigned points were laying within the MAC levels. Exception were the concentrations of suspended solids in all three points in August (Tugol say: 6.8 mg/dm³; the irrigation channel- 14.8 mg/dm³; the pond basin- 14 mg/dm³; the MAC was established as 0.7 mg/dm³). Increase in suspended solids was also recorded in monitoring carried out in the previous reporting period, 1st half of 2022.

105. Air Quality Monitoring: The concentrations of the studied pollutants were laying within levels of MAC in all monitoring rounds. There only exceptions were levels of NO₂ in September and October elevated up to 2.2 times from established MAC for NO₂.

4.4 Material Resources Utilisation.

106. China Railway No.5 performs water consumption for dust suppression using previously agreed and approved water sources (from the Jungal, Tugol-Sai, Karasuu and Kyzartsuu rivers). The use of electricity, water and other materials were not reported for monitoring in SSEMP.

4.5 Waste Management.

107.The Contractor developed the Waste Management Plan in the SSEMP describing the project's waste management activities.

108.Solid household waste generated on the territory of the contractor's and subcontractors' camp is collected in the waste bins located in the designated fenced area and disposed using local disposal resources in accordance with the contract signed between contractor and Tugol-Saysky Aiyl Okmotu (Order No. 13b).

109.Wastewater is collected in the septic tanks and moved to Balykchy for proper treatment and utilization.

110.Observations of not timely utilization of domestic waste from the territory of Camp were made on several occasions. There were cases of accumulation of construction waste in the production base.

111.Reinforced concrete construction waste is generated during the dismantling of bridges and culverts. The contractor shall pay attention so that this type of waste as well as old asphalt are not accumulated in the areas which have not been designated for this purpose.

4.6 Health and Safety.

4.6.1 Community Health and Safety.

112.The contractor has appointed the new HSE engineer - Uzbekov Kanatbek, and the traffic safety engineer Kozhomkul Abylabekov. There is no permanent medical staff involved in the project; in case of emergency or if any medical treatment is required the local medical facility in vicinity of the camp has been contracted for provision with healthcare services.

113.There were no cases of road traffic or other accidents reported that led to serious consequences for the health of the local population during the reporting period.

114.Consultant's Road Safety Engineer, Bolotbek Toktomushev undertook monthly visits of the project road and construction sites to insure safety measures are followed. Urgent actions were closed immediately, actions requiring longer time to fulfill were communicated to Contractor in a formal way.

115.Road maintenance activities are fulfilled by the Contractor during the year. The Contractor has assigned on-duty personnel to perform activities to ensure appropriate safety measures have been taken on the road during the winter season. As part of this plan, Mr. Sapar Tentiev was identified as the Road Maintenance Specialist responsible for winter road maintenance. The anti-icing inert materials such as gravel sand mix and salt sand mix have been applied over the project roadway as the main road safety operation during the cold season. In addition, the road construction equipment has been maintained to ensure the maximum serviceability.

116.Dust formation is a persistent issue during road construction, especially in dry weather. Anthropogenic impact to ambient environment coming from increased levels of particle matters due to transportation and using of sand and sand-gravel compounds. Elevated levels of dust affect businesses of the local community, it settles on shops, cafes, agricultural products and crop yields. Elevated levels potentially might lead to traffic accidents due to poor visibility, to allergy and respiratory diseases in humans, water quality pollution.

117. Mitigation measures applied for minimization of impact from elevated levels of dust during the project work were: water trucks were suppressing dust by watering roads, special intensity of the process applied during the dry and hot weather; the speed of vehicles was limited as by signs obliged it all along the road without pavement; regular technical inspection of vehicle involved to prevent potential exceeding the maximum permissible levels.

4.6.2 Worker Safety and Health.

118. The Contractor prepared and submitted the occupational health and safety plan on February 10, 2022.

119. There were no accidents, incidents that led to problems with the health and safety of employees, as well as incidents related to downtime during the reporting period.

120. Contractor has improved first aid awareness of the assigned personnel and provided the first aid kits in the working area

121. Contractor shall pay more attention toward improving safety performance in the company by conduction safety inductions, mandatory trainings, awareness sessions, knowledge check exercises.

122. All employees working at sites shall be provided with full PPE (coverall, helmets, boots, welding shield and apron, gloves, earmuffs and goggles).

123. Monthly check of critically safety equipment to be carried out (fire extinguishers, sand box and other fire safety equipment, first aid kits etc.) by trained personnel.

124. A clean and tidy workplace and work territory help combat a range of different threats. Contractor shall make sure that their safety performance meet compliance requirements established by the Law of the Republic of Kyrgyzstan, and specified in the occupational health and safety plan and other relevant project documents.

4.7 Training.

125. It was recommended that Contractor provides mandatory trainings (first aid, fire safety, emergency exercises) to their employees. As it was observed by the national environmental specialist during the inspection on project road only the first aid trainings have been conducted so far.

5 SSEMP FUNCTIONING.

5.1 SSEMP Review.

126.The SSEMP was reviewed and approved in December 2021. The document describes the measures proposed under the Project to prevent, minimize or compensate for adverse environmental impacts arising from the Project.

127.The Contractor, represented by Nurdinov Nurlan, responsible for environmental protection, is taking measures to mitigate the consequences potentially arising from construction work. The Consultant's specialists regularly implement the inspections to monitor environment safeguard activities and whether they are following requirements of SSEMP.

128.The review of the Contractor's SSEMP and observations on processes while visiting the project area allowed to highlight recommendations. These recommendations are presented in paragraph 7.2 below.

6 GOOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT.

6.1 Good practice.

129. Mitigation measures described in the SSEMP are sufficient. Example of a good practice is adaptation of the plan and increasing intensity of dust suppression activities on construction work sites due to dry and hot weather in summer. A new plan is presented in Annex 1. Moreover, a safety road maintenance rules has been developed and road maintenance engineer appointed for treatment of roads in winter.

130. It is recommended to monitor non-compliance actions identified during inspections/audits and prevent their reoccurrence. Contractor should be more responsible toward health and safety protection of workers and eliminate potential risks and hazard.

6.2 Opportunities for Improvement.

131. The Contractor is responsible for environmental compliance, health and safety in working area. Environmental awareness sessions shall be provided on prevention of pollution and contamination from construction activities. The safety mandatory trainings such as safety behavior at workplace, use firefighting equipment, first aid are to be provided and followed up.

132. It is recommended to create emergency response team.

133. Internal inspections & audits should be regularly conducted in order to insure sustainability of performance and prevention of re-occurrences.

134. It is required that Contractor arranges an internal Log of issues and non-compliances and track how they are managed. Provide information on progressing together with to the Contractor's monthly reports to Consultant.

7 SUMMARY AND RECOMMENDATIONS.

7.1 Summary.

135. The contractor has received all permits from local authorities to use quarries and spoil areas. Three quarries are currently being developed. Currently, negotiations are underway to obtain permits for utilization of the land for the newly planned crushing plant.

136. Relevant permits have also been received from the local authorities for the production base and camp sites.

137. Reclamation has not been carried out at the 12 designated quarries, as these quarries will continue to be used until the completion of all construction work on the project road section.

138. Increased dust formation observed during heavy traffic and due to the heavy-duty vehicles traffic in the dry weather, in view of this, the intensity of dust suppression was increased to 10-12 water tanks in summer. A new dust suppression plan has been prepared and implemented. In winter the number of water trucks used is 3.

139. Archaeological excavation activities at sites of historical and cultural heritage were implemented following the Protection Zone Plan. Results described in the relevant sections of the Semi-annual Environmental Monitoring Report, January-June 2022 "CAREC Corridors 1 and 3 Connector Road, Section 2B Epkin-Dyikan [Bashkuugandy], Km: 89+500 – 159+200 project" and available for readers via the ADB internet site.

140. Total three rounds of instrumental monitoring have been carried out on selected and agreed locations (once in a month: in August, September, and October).

- Levels of noise near the road were within the established MAC level in August and September; elevated levels were recorded in October (MAC is 70 dB, actual readings were between 70 to 90 dBa).
- Vibration levels were below MAC limits.
- Some elevated concentrations of suspended solids in all three sampling points were recorded in August, however the remaining parameters were within MAC levels. The concentrations of suspended solids in August in Tugol-Sai were 6.8 mg/dm³; in the irrigation channel-14.8 mg/dm³; in the pond basin- 14 mg/dm³, all exceeding the MAC of 0.7 mg/dm³. In September and October no MAC levels were exceeded in surface waters by any parameter measured.
- Air quality parameters were within MAC levels.

141. Environmental and safety performance shall be improved in a way to prevent recurrences of non-compliant actions previously identified and closed.

142. Road safety measures undertaken are to be constantly followed up.

7.2 RECOMMENDATIONS.

143. The contractor shall develop an internal corrective and preventive actions system and monitor sustainability of corrective actions have been made to prevent reoccurrence of non-compliances.

144. Waste management is the area improvements are to be made. Timely utilization of domestic waste and wastewater from the camp and production territory; proper storage and utilization of construction and hazardous waste are too followed in accordance with regulations and standards established for the project.

145. It is recommended to develop a system of training and internal inspection to prevent recurrence of violations.

146. The Contractor shall prepare a tree planting plan describing the number of trees felled in specific areas; identification of specific areas with Aiyl Okmotu for planting seedlings; finalize selection of trees for planting and their purchase with local forestry nurseries; design of planting and the process of caring for seedlings, and other related preparations.

147. It is recommended to continue with instrumental analyses to monitor levels of suspended solids in the surface water and NO₂ in the air quality samples.

148. The Contractor shall prepare a plan for the remediation of the used quarries in the completed sections.


149. To prevent any potential direct and/or indirect impact to the objects of historical and cultural heritage located along the project road construction areas, the following actions would be recommended:

- 1) Install information boards/signs in the protection zones of the OHCH;
- 2) Conduct routine monitoring of the OHCH during the whole period of project work;
- 3) Employ the archaeologist with overall responsibilities to survey and ensure that the objects of historical and cultural heritage located on project route are preserved.

ANNEX 1

Dust Suppression Plan, issued on 30 June 2022

Соединенная Дорога Коридоры ЦАРЭС 1 и 3 участок 2Б, на реабилитацию автодороги
Экин-Баш-Кууганды
(дистанция км 89+500- 159+200 км)


Проект менеджер Чжанг Лян
«SC» LLC 2022


План по пылеподавлению.

№ п/п	Гос. Номер машины	ФИО водителя	Участок по километражу	Время пылеподавление		Сколько рейсов	Объем цистерны м3	Ответственный
				начало	конец			
1.	0050	Алапаев Н.	147+000 - 150+000	7: 30	19: 00		10	Адисов Жоробай
2.	0048	Абдылдаев Б.	89+00 - 94+500	7: 30	19: 00		10	
3.	1074	Жумаев Т.	По участку где ведутся работы	7: 30	19: 00		10	
4.	0893	Абдысаков Р.	По участку где ведутся работы	7: 30	19: 00		20	
5.	0531	Авдандил у М.	125+000 – 128+000	7: 30	19: 00		10	
6.	2944	Багышов Д.	141+100 – 147+000	7: 30	19: 00		20	
7.	2943	Исаков А	153+200 – 159+200	7: 30	19: 00		20	
8.	1080	Адисов А	153+200 – 150+000	7: 30	19: 00		10	
9.	0561	Ажыбек	По участку где ведутся работы	7: 30	19: 00		10	
10.	368	Камчыбек у З.	136+600 – 141+000	7: 30	19: 00		15	
11.	845	Сокучиев Р.	132+000 – 136+600	7: 30	19: 00		15	
12.	594	Койчуманов Р.	128+000 – 132+000	7: 30	19: 00		18	

ANNEX 2

Laboratory test outcomes of atmospheric air quality samples (August, 2022)

МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ КЫРГЫЗСКОЙ РЕСПУБЛИКИ
ДЕПАРТАМЕНТ ПРОФИЛАКТИКИ ЗАБОЛЕВАНИЙ ГОССАНЭПИДНАДЗОРА



ИСО/IEC 17025
№ КС 47030А.113.099
От: 06.05.2011 г.
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на сайт: www.sanepid.kg
*указанный метод вне
области аккредитации

ЦЕНТР ЛАБОРАТОРНЫХ ИСПЫТАНИЙ
ЛАБОРАТОРИЯ ХИМИКО-АНАЛИТИЧЕСКИХ ИССЛЕДОВАНИЙ

Адрес: 720033, г. Бишкек, ул. Фрунзе, 535 Телефон: (996312) 32-31-95, 32-32-08, факс 323214

ПРОТОКОЛ ЛАБОРАТОРНЫХ ИСПЫТАНИЙ

№27 Вэ от « 16 » 08 2022г.

Место отбора проб воздуха: Нары́йская обл. Жумгалский р-н, с/о Тутол-Сай
наименование объекта, адрес, цех, участок, отделение
Западная и восточная сторона участков
помещение, здание, комната, класс и др.

Цель отбора: Санитарно-гигиеническая оценка
НД, согласно которой произведен отбор: СБ МУ и ТУ Ч2 стр 13,
МУ на методы измерения вредных веществ Вып XV стр 108, СБ МУ и ТУ «Морфлот» стр 60

Дата и время отбора: 10.08 доставки 11.08
Условия транспортировки: хранения
Дата проведения исследований: 12.08-15.08.22г
Температура окружающей среды при проведении испытаний, °С _____
Средства измерений, применяемые при отборе: Аспиратор, психрометр, ГАНК-4
Свидетельство №1005 срок до 31.03.2023 года модель 822 №1734 MB-4 №2640 до 19.04.2023г
Свидетельство о поверке № С-ТТ/24-02-2022/134985023 срок до 23.02.2023г

Наименование помещения:
площадь _____ м², кубатура _____ м³
количество работающих _____, условия отбора _____
двери открыты, закрыты и др.

Характеристика технологического процесса: % работющего оборудования
режим
наличие ручных операций _____
основные источники загрязнения Пыль, двуокись азота, оксид серы, оксид углерода

Эскиз помещения (территории, площадки, рабочего места и др.) с указанием источников загрязнения и точек отбора проб воздуха (порядковые номера точек отбора (прилагается)).

Эколог: Нурдинов Н
Должность, Ф.И.О. представителя обследуемого объекта, присутствующего при отборе _____ Пашин
воздуха

Результаты испытаний

Номера точек отбора по скваж.	Точка отбора проб	Условия отбора воздуха помещений										Результат испытаний, мкг/м³		Методика выполнения исследований
		метеофакторы			расстояние, м			время отбора, час. мин.		наименование определяемого показателя	объемная концентрация, мкг/м³	ПДУК*, мг/м³		
		температура, °С	влажность, %	относительная влажность, %	от пола	от потолка	от стены	начало	окончание					
		сухой термометр	влажный		7	8	9	10	11	12	13	14		
3	4	5	6	7	8	9	10	11	12	13	14	15		
1		25,5	15,5	34		1,5 метра	15 ⁰⁰	15 ¹⁰		(CO)	0,5 0,4 0,4	20	*ГАНК-4	
	С.Тутол-Сай западная сторона магазина Кутман	25,5	15,5	34		1,5 метра	15 ¹⁰	15 ²⁰		(SO2) *Оксида серы	1,2 1,2 1,2	10	*ГАНК-4	
	С.Тутол-Сай западная сторона магазина Кутман	25,5	15,5	34		1,5 метра	15 ²⁰	15 ³⁰	20	Пыль	<0,26 <0,26	2	СБ МУ и ТУ методы измерения концентрации пыли в воздухе ч.2 стр.13	
	С.Тутол-Сай западная сторона магазина Кутман	25,5	15,5	34		1,5 метра	16 ⁰⁰	16 ⁰⁵	0,2	Пыль диоксида азота	<0,6 <0,6	2	СБ МУ на определение пыли в воздухе ч.4 «Методы», стр.60	
2	Северо-Восточная сторона АБЗ и ДСУ	26	16,5	35		1,5 метра	17 ⁰⁰	17 ¹⁰		(CO) *Оксида углерода	0,4 0,4 0,4	20	*ГАНК-4	
	С.Тутол-Сай	26	16,5	35		1,5 метра	17 ¹⁰	17 ²⁰		(SO2) *Оксида серы	1,1 1,2 1,2	10	*ГАНК-4	
	Северо-Восточная сторона АБЗ и ДСУ	26	16,5	35		1,5 метра	17 ²⁰	17 ³⁰	20	Пыль	<0,5 <0,5	2	СБ МУ и ТУ методы измерения концентрации пыли в воздухе ч.2 стр.13	
	С.Тутол-Сай	26	16,5	35		1,5 метра	18 ¹⁰	18 ²⁰	0,2	Пыль диоксида азота	<0,6 <0,6	2	СБ МУ на определение пыли в воздухе ч.4 «Методы», стр.60	
	Северо-Восточная сторона	26	16,5	35		1,5 метра								

Результаты испытаний

Порядк по счету	Точка отбора проб	Условия отбора воздуха помещения										Результаты испытаний		Методика выполнения исследования
		метеостанция			расстояние, м			время отбора, час. мин.		наименование определяемого показателя	единица измерения	результат измерения		
		температура, °С	влажность, %	скорость ветра, м/сек	от пола	от стены	от потолка	начало	окончание					
										сухой	по влажност			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	С.Тутол-Сай западная сторона магазина Кутман	25,5	15,5	34	1,5 метра	15 ⁰⁰	15 ¹⁵	20	CO ₂	0,5	*ГАНК-4	20	СБ МУ и ТУ методы измерения концентрации вредных веществ в воздухе § 2, стр 13	
	С.Тутол-Сай западная сторона магазина Кутман	25,5	15,5	34	1,5 метра	15 ¹⁵	15 ²⁵	20	SO ₂	1,2	*ГАНК-4	10		
	С.Тутол-Сай западная сторона магазина Кутман	25,5	15,5	34	1,5 метра	15 ²⁰	15 ¹⁵	20	Пыль	<0,26		2		
2	С.Тутол-Сай Северо-Восточная сторона АБЗ и ДСУ	25,5	15,5	34	1,5 метра	16 ⁰⁰	16 ⁰⁵	0,2	Пары двуокиси азота	<0,6		2	СБ МУ на серозолонг, стр. 4-4 «Мерфат», стр. 60	
	С.Тутол-Сай Северо-Восточная сторона АБЗ и ДСУ	26	16,5	35	1,5 метра	17 ⁰⁰	17 ¹⁰	20	CO ₂	0,4	*ГАНК-4	20		
	С.Тутол-Сай Северо-Восточная сторона АБЗ и ДСУ	26	16,5	35	1,5 метра	17 ¹⁵	17 ²⁵	20	SO ₂	1,1	*ГАНК-4	10		
	С.Тутол-Сай Северо-Восточная сторона АБЗ и ДСУ	26	16,5	35	1,5 метра	17 ⁰⁰	17 ¹⁵	20	Пыль	<0,5		2	СБ МУ и ТУ методы измерения концентрации вредных веществ в воздухе § 2, стр 13	
	С.Тутол-Сай Северо-Восточная сторона АБЗ и ДСУ	26	16,5	35	1,5 метра	18 ¹⁵	18 ²⁵	0,2	Пары двуокиси азота	<0,6		2		
	С.Тутол-Сай Северо-Восточная сторона АБЗ и ДСУ	26	16,5	35	1,5 метра	18 ¹⁵	18 ²⁵	0,2	Пары двуокиси азота	<0,6		2		

АБЗ и ДСУ														
3	С.Куйбурчак волеге Мәргәннә Азиямат	29,0	18,5	36	1,5 метра		18°	18°			(CO) *Окиса углерода	0,5 0,4 0,4	20	*ГАНБС-4
	С.Куйбурчак волеге Мәргәннә Азиямат	29,0	18,5	36	1,5 метра		18°	18°			(SO2) *Окиса серы	1,0 1,0 1,0	10	*ГАНБС-4
	С.Куйбурчак волеге Мәргәннә Азиямат	29,0	18,5	36	1,5 метра		18°	19°	20	Пылак	<0,26 <0,26	2	СБ МДУ/ио.организационный специал-4 *Аббревиатура, стр. 60	
4	С.Куйбурчак волеге Мәргәннә Азиямат	29,0	18,5	36	1,5 метра		19°	19°	0,2	Пылак аэрозоль	< 0,6 < 0,6	2	СБ МДУ/ио.организационный специал-4 *Аббревиатура, стр. 60	
	С.Жульмәтәли волеге ШКОЛЫ	28,4	18	35	1,5 метра		19°	19°		(CO) *Окиса углерода	0,3 0,4 0,4	20	*ГАНБС-4	
	С.Жульмәтәли волеге ШКОЛЫ	28,4	18	35	1,5 метра		19°	19°		(SO2) *Окиса серы	1,1 1,0 1,0	10	*ГАНБС-4	
	С.Жульмәтәли волеге ШКОЛЫ	28,4	18	35	1,5 метра		19°	19°	20	Пылак	<0,26 <0,26	2	СБ МДУ/ио.организационный специал-4 *Аббревиатура, стр. 60	
	С.Жульмәтәли волеге ШКОЛЫ	28,4	18	35	1,5 метра		19°	20°	0,2	Пылак аэрозоль	< 0,6 < 0,6	2	СБ МДУ/ио.организационный специал-4 *Аббревиатура, стр. 60	

Предел допустимой концентрации в соответствии приложением №18 ПП КР №201 от 11.04.2016 г. ГН: "Предельно-допустимые концентрации вредных веществ в воздухе рабочей зоны"
Сообщаемая расширенная неопределенность измерения указывается как суммарная стандартная неопределенность измерения, умноженная на коэффициент охвата $k=2,90$ обеспечивает доверительную вероятность 95%. Неопределенность указана с учетом отбора пробы.

Одобрившая по испытаниям:

Андеева Г.А

Заведующий ЛХАИ ЦИИ :

Асанова Г.А

примечание: результаты испытаний относятся только к тем пробам, которые были отобраны специалистами отделения гигиены труда, пыльцовой диагностики не может быть выставлено ввиду отсутствия информации об их идентификации.

КОНЕЦ ПРОТОКОЛА

Заключение врача:

Свертываемые вещества в норме, белок в моче отсутствует, глюкоза в моче отсутствует, креатинин в моче отсутствует, АЩСР 12, АТЛСР 201 11.00.16г



[Handwritten signature]

Кручинин А.Г.

Подпись санитарного врача:

МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ КЫРГЫЗСКОЙ РЕСПУБЛИКИ
 ДЕПАРТАМЕНТ ПРОФИЛАКТИКИ ЗАБОЛЕВАНИЙ И
 ГОСУДАРСТВЕННОГО САНИТАРНО-ЭПИДЕМИОЛОГИЧЕСКОГО НАДЗОРА
 АККРЕДИТОВАННАЯ ЛАБОРАТОРИЯ ХИМИКО-АНАЛИТИЧЕСКИХ ИССЛЕДОВАНИЙ

Адрес: 720033, г. Бишкек, ул. Фрунзе, 535, факс 32-32-14, телефон: (996312) 32-31-98

ПРОТОКОЛ
 лабораторных исследований воды

№ 184В от « 25 » августа 2022 г.

Заявитель ОСЭЭ и У № 758
 Место отбора пробы Вода из реки Тугол-Сай
 Дата отбора пробы 12.08.2022г
 Дата получения пробы 12.08.2022г
 Дата проведения испытаний с « 12 » августа 2022 г по « 25 » августа 2022г
 НД на продукцию - «Правила охраны поверхностных вод КР. Утверждены ПП КР от 14 марта 2016 года № 128

ОПРЕДЕЛЯЕМЫЕ ПОКАЗАТЕЛИ, ЕДИНИЦЫ ИЗМЕРЕНИЯ	РЕЗУЛЬТАТЫ ИСПЫТАНИЙ	ПДК (норма)	НД на методы испытаний
Водородный показатель, pH	6,6	6,5- 8,5	ГОСТ ISO 10523-2017
Кислород, мг О/л	1,1	не менее 4,0	Методы определения вредных веществ в воде водоемов. Медицина. ути. №16 от 25.04.2000г
БПК ₅ , мг О/л	0,01	не более 4,0	
Нефтепродукты, мг/дм ³	не обн	0,3	
Взвешенное вещество, мг/дм ³	6,8	не более 0,75	ГОСТ 31866-2012
Свинец (Pb, суммарно), мг/дм ³	< 0,0001		
Кадмий (Cd, суммарно), мкг/дм ³	< 0,0001		
Ртуть, мг/дм ³	< 0,00005		
Мышьяк, (As), мг/дм ³	< 0,005		ГОСТ 4152 - 89

ИСПЫТАНИЯ ПРОВОДИЛИ:

Врачи ЛХАН:

Акимбаева Г.Н.		_____
Жумалиева Ж.Ш.		_____
Ырсалиева А.Д.		_____

Заведующая лаборатория химико - аналитических исследований



Асанова Г.А.

ПРИМЕЧАНИЕ: РЕЗУЛЬТАТЫ ИСПЫТАНИЙ ОТНОСЯТСЯ ТОЛЬКО К ПРОБЕ, ПРЕДСТАВЛЕННОЙ В ЛХАН ЗАКАЗЧИКОМ. ОТБОР ПРОБ ПРОИЗВЕДЕН ЗАКАЗЧИКОМ. ЛХАН НЕ НЕСЕТ ОТВЕТСТВЕННОСТИ ЗА ОТБОР ПРОБ. НАСТОЯЩИЙ ДОКУМЕНТ НЕ МОЖЕТ БЫТЬ ЧАСТИЧНО ИЛИ ПОЛНОСТЬЮ ВОСПРОИЗВЕДЕН (СКОПИРОВАН ИЛИ РЕПРОДУЦИРОВАН) БЕЗ РАЗРЕШЕНИЯ ЛХАН
 ———— конец документа ————

МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ КЫРГЫЗСКОЙ РЕСПУБЛИКИ
 ДЕПАРТАМЕНТ ПРОФИЛАКТИКИ ЗАБОЛЕВАНИЙ И
 ГОСУДАРСТВЕННОГО САНИТАРНО-ЭПИДЕМИОЛОГИЧЕСКОГО НАДЗОРА
 АККРЕДИТОВАННАЯ ЛАБОРАТОРИЯ ХИМИКО-АНАЛИТИЧЕСКИХ ИССЛЕДОВАНИЙ

Адрес: 720033, г. Бишкек, ул. Фрунзе, 535, факс 32-32-14, телефон: (996312) 32-31-98

ПРОТОКОЛ
 лабораторных исследований воды

№ 183В от « 25 » августа 2022 г.

Заявитель ОСЭЭ и У № 758
 Место отбора пробы Вода из реки Ирригационный канал
 Дата отбора пробы 12.08.2022г
 Дата получения пробы 12.08.2022г
 Дата проведения испытаний с « 12 » августа 2022 г по « 25 » августа 2022г
 НД на продукцию - «Правила охраны поверхностных вод КР. Утверждены ПП КР от 14 марта 2016 года № 128

ОПРЕДЕЛЯЕМЫЕ ПОКАЗАТЕЛИ, ЕДИНИЦЫ ИЗМЕРЕНИЯ	РЕЗУЛЬТАТЫ ИСПЫТАНИЙ	ПДК (норма)	НД на методы испытаний
Водородный показатель, рН	7,1	6,5- 8,5	ГОСТ ISO 10523-2017
Кислород, мг О/л	1,4	не менее 4,0	Методы определения вредных веществ в воде водоемов. Медицина, утв. №16 от 25.04.2000г
БПК ₅ , мг О/л	0	не более 4,0	
Нефтепродукты, мг/дм ³	не обн	0,3	ГОСТ 31866- 2012
Взвешенное вещество, мг/дм ³	14,8	не более 0,75	
Свинец (Pb, суммарно), мг/дм ³	< 0,0001		
Кадмий (Cd, суммарно), мкг/дм ³	< 0,0001		
Ртуть, мг/дм ³	< 0,00005		
Мышьяк, (As), мг/дм ³	< 0,005		ГОСТ 4152 - 89

ИСПЫТАНИЯ ПРОВОДИЛИ:

Врачи ЛХАИ:
 Акимбасва Г.Н. 
 Жумалиева Ж.Ш. 
 Ырсалиева А.Д. 

Заведующая лабораторией химико - аналитических исследований



Асанова Г.А.

ПРИМЕЧАНИЕ: РЕЗУЛЬТАТЫ ИСПЫТАНИЙ ОТНОСЯТСЯ ТОЛЬКО К ПРОБЕ, ПРЕДСТАВЛЕННОЙ В ЛХАИ ЗАКАЗЧИКОМ. ОТБОР ПРОБ ПРОИЗВЕДЕН ЗАКАЗЧИКОМ. ЛХАИ НЕ НЕСЕТ ОТВЕТСТВЕННОСТИ ЗА ОТБОР ПРОБ. НАСТОЯЩИЙ ДОКУМЕНТ НЕ МОЖЕТ БЫТЬ ЧАСТИЧНО ИЛИ ПОЛНОСТЬЮ ВОСПРОИЗВЕДЕН (СКОПИРОВАН ИЛИ ПЕРЕПЕЧАТАН) БЕЗ РАЗРЕШЕНИЯ ЛХАИ

МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ КЫРГЫЗСКОЙ РЕСПУБЛИКИ
 ДЕПАРТАМЕНТ ПРОФИЛАКТИКИ ЗАБОЛЕВАНИЙ И
 ГОСУДАРСТВЕННОГО САНИТАРНО-ЭПИДЕМИОЛОГИЧЕСКОГО НАДЗОРА
 АККРЕДИТОВАННАЯ ЛАБОРАТОРИЯ ХИМИКО-АНАЛИТИЧЕСКИХ ИССЛЕДОВАНИЙ

Адрес: 720033, г. Бишкек, ул. Фрунзе, 535, факс 32-32-14, телефон: (996312) 32-31-98

ПРОТОКОЛ
 лабораторных исследований воды

№ 182В от « 25 » августа 2022 г.

Заявитель	ОСЭЭ и У № 758		
Место отбора пробы	Вода из реки БСР	Нарынская обл., Жумгалский район	
Дата отбора пробы	12.08.2022г		
Дата получения пробы	12.08.2022г		
Дата проведения испытаний	с « 12 » августа	2022 г	по « 25 » августа 2022г
НД на продукцию	- «Правила охраны поверхностных вод КР. Утверждены ПП КР от 14 марта 2016 года № 128		

ОПРЕДЕЛЯЕМЫЕ ПОКАЗАТЕЛИ, ЕДИНИЦЫ ИЗМЕРЕНИЯ	РЕЗУЛЬТАТЫ ИСПЫТАНИЙ	ПДК (норма)	НД на методы испытаний
Водородный показатель, рН	6,7	6,5- 8,5	ГОСТ ISO 10523-2017
Кислород, мг О/л	1,4	не менее 4,0	Методы определения вредных веществ в воде водоемов. Медицина. утв. №16 от 25.04.2000г
БПК ₅ , мг О/л	0,03	не более 4,0	
Нефтепродукты, мг/дм ³	не обн	0,3	
Взвешенное вещество, мг/дм ³	14,0	не более 0,75	ГОСТ 31866- 2012
Свинец (Рв, суммарно), мг/дм ³	< 0,0001		
Кадмий (Сд, суммарно), мкг/дм ³	< 0,0001		
Ртуть, мг/дм ³	< 0,00005		
Мышьяк, (Аз), мг/дм ³	< 0,005		ГОСТ 4152 - 89

ИСПЫТАНИЯ ПРОВОДИЛИ:

Врачи ЛХАИ:	
Акимубаева Г.Н. <i>Г.Н.</i>	_____
Жумалиева Ж.Ш. <i>Ж.Ш.</i>	_____
Ырсалиева А.Д. <i>А.Д.</i>	_____

Заведующая лабораторией химико - аналитических исследований



Асанова Г.А.

ПРИМЕЧАНИЕ: РЕЗУЛЬТАТЫ ИСПЫТАНИЙ ОТНОСЯТСЯ ТОЛЬКО К ПРОБАМ, ПРЕДСТАВЛЕННЫМ В ЛХАИ ЗАКАЗЧИКОМ. ОТБОР ПРОБ ПРОИЗВЕДЕН ЗАКАЗЧИКОМ. ЛХАИ НЕ НЕСЕТ ОТВЕТСТВЕННОСТИ ЗА ОТБОР ПРОБ. НАСТОЯЩИЙ ДОКУМЕНТ НЕ МОЖЕТ БЫТЬ ЧАСТИЧНО ИЛИ ПОЛНОСТЬЮ ВОСПРОИЗВЕДЕН (СКОПИРОВАН ИЛИ ПЕРЕПЕЧАТАН) БЕЗ РАЗРЕШЕНИЯ ЛХАИ
 --- конец документа ---



ПРОФИЛАБ
оперативная лаборатория



ISO 9001 17025
№ КГ 437/КПА.Н.Д.066
От: 31.08.2021 г.
Область аккредитации
на сайтах: www.ksa.kg, www.kg

ОсОО «Профи.Лаб»
г. Бишкек,
ул. Тоголок-Молдо, 60^А
каб. 319. тел.0312325067
сот. 0701005051
e-mail: profilab.ltd@mail.ru

ПРОТОКОЛ ИЗМЕРЕНИЯ ВИБРАЦИИ

№ 12 от «12» августа 2022г.

1. Юридическое лицо, индивидуальный предприниматель или физическое лицо, где производится измерения, адрес: **ФКО «Китайская железнодорожная инженерная групповая компания №5» в КР, Нарынская область, Жумгалский и Кочкорский район.**
2. Объект, где производится измерения: **Автодорога Жумгал-Кочкор км 89+500 с. Эски-км 159+200 Дыйкан**
(наименование, фактический адрес)

3. Основание для проведения измерения: **Договор №94**

4. Наименование средств измерений и сведения о калибровке измеряемого прибора:

Наименование средства измерения	Номер	Свидетельство о поверке		Поверено до
		номер	дата	
Экофизика - 110А	№ АВ 130044	№ 0053	15.03.2022 г.	12 месяцев

5. Нормативная документация на методы измерений, в соответствии с которой проводились измерения: **ГОСТ 31319-2006 «Вибрация. Измерение общей вибрации и оценка ее воздействия на человека.**
6. Источники физических факторов и их характеристики: **Транспортный поток.**
7. Условие окружающей среды **Температура: 24 °С**
Влажность: 29%

8. Эскиз помещения:



Места где были произведены замеры. Контрольная точка –

9. Дата произведение измерения: «11» августа 2022 г. ☆

страница: 1 из 4

Результаты измерений:

№	Место измерений	Вид вибрации				Уровни звукового давления в дБ в октавных полосах со среднегеометрическими частотами в Гц						Корректированные и эквивалентные корректированные значения и их уровни	
		Общая			Дополнительная	2	4	8	16	31,5	63	Частотная коррекция W_n (дБ)	
		Тяжелая	Трехсторонняя	Тонкая									
1	2	3	4	5	6	7	8	9	10	11	12	13	14
с. Тугол Сай, рядом с магазином «Кутман» южная сторона дороги 151+000км. Время 09:35													
Широта: 41°58'56; долгота: 74°49'49''.													
1	Leq					90	87	84	81	62	62	89	Уровень вибрации
	Slow max	+										95	Макс. уровень
Северо-восточная сторона АБЗ и ДСУ, с. Тугол-Сай 149+000. Время 10:10													
Широта: 41° 59'33''; Долгота: 74°45'51''.													
2	Leq					92	91	88	87	84	60	93	Уровень вибрации
	Slow max	+										99	Макс. уровень
с. Куйручук, рядом с магазином «Азамат» западная сторона км 144+000. Время 11:20													
Широта: 42° 1'30; долгота: 74°58'35''.													
3	Leq					92	89	86	83	60	61	93	Уровень вибрации
	Slow max	+										99	Макс. уровень
с. Жумгал, рядом со школой на дороге. Левая сторона, км- 129+400. Время 12:10													
Широта: 42° 42'33; долгота: 75°50'44''.													
4	Leq					106	102	99	73	60	59	95	Уровень вибрации
	Slow max	+										101	Макс. уровень
с. Тугол Сай, рядом с магазином «Кутман» южная сторона дороги 151+000км. Время 13:10													
Широта: 41°58'56; долгота: 74°49'49''.													
5	Leq					91	88	85	82	62	61	91	Уровень вибрации
	Slow max	+										97	Макс. уровень
Северо-восточная сторона АБЗ и ДСУ, с. Тугол-Сай 149+000. Время 13:45													
Широта: 41° 59'33''; Долгота: 74°45'51''.													
6	Leq					96	94	91	88	60	60	92	Уровень вибрации
	Slow max	+										98	Макс. уровень



страница: 2 из 4

Результаты измерений:

№	Место измерений	Вид вибрации				Уровни звукового давления в дБ в октавных полосах со среднегеометрическими частотами в Гц						Корректированные и эквивалентные скорректированные значения и их уровни	
		Общая			Локальная	2	4	8	16	31,5	63	Частотная коррекция W_{an} (дБ)	
		Гравиметрическая	Тримерная поперечная	Полосчатая									
1	2	3	4	5	6	7	8	9	10	11	12	13	14
с. Куйручук, рядом с магазином "Азамат" западная сторона км 144+000. Время 14:30 Широта: 42° 1'30"; долгота: 74°58'35".													
7	Leq					97	93	90	87	60	59	95	Уровень вибрации
	Slow max	+										101	Макс. уровень
с. Жумгал, рядом со школой на дороге. Левая сторона, км- 129+400. Время 16:42 Широта: 42° 42'33"; долгота: 75°50'44".													
8	Leq					96	92	72	66	62	71	97	Уровень вибрации
	Slow max	+										103	Макс. уровень
с. Тугол Сай, рядом с магазином «Кутман» южная сторона дороги 151+000км. Время 16:20 Широта: 41°58'56"; долгота: 74°49'49".													
9	Leq					91	89	85	84	63	64	92	Уровень вибрации
	Slow max	+										99	Макс. уровень
Северо-восточная сторона АБЗ и ДСУ. с. Тугол-Сай 149+000. Время 17:00 Широта: 41° 59'33"; Долгота: 74°45'51".													
10	Leq					90	88	86	86	85	58	86	Уровень вибрации
	Slow max	+										92	Макс. уровень
с. Куйручук, рядом с магазином "Азамат" западная сторона км 144+000. Время 18:00 Широта: 42° 1'30"; долгота: 74°58'35".													
11	Leq					93	87	85	81	58	58	90	Уровень вибрации
	Slow max											98	Макс. уровень
с. Жумгал, рядом со школой на дороге. Левая сторона, км- 129+400. Время 18:45 Широта: 42° 42'33"; долгота: 75°50'44".													
12	Leq					102	100	96	70	58	55	90	Уровень вибрации
	Slow max											98	Макс. уровень

страница: 3 из 4

Уполномоченный представитель объекта, присутствующий при проведении измерений:
фамилия, имя, отчество Нурдинов Н.
должность инженер эколог
Подпись _____

Должность	ФИО	Подпись
Генеральный директор	Буланбеков И. А.	
Начальник ОЛ	Аманова Н. Т.	

Протокол составляется в двух экземплярах, 1 экземпляр выдается по месту требования, 2-й экземпляр остается в лаборатории.

Примечание: Результаты протокола соответствуют на момент проведенных измерений.
Передача протокола без разрешения начальника лаборатории запрещена.

Конец протокола

Заключение по результатам замеров: По результатам инструментальных замеров уровень вибрации от транспортного потока на автодорогах составляет от 86 дБ до 97 дБ.

Санитарный врач

М.П.





подпись

Джобазаров Н. К.
ФИО

страница: 4 из 4



ПРОФИЛАБ
оперативная лаборатория



ISO/IEC 17025
№ КС 437/КДА.Н.1.089
01.08.2021 г.
ОБЛАСТЬ ИМБРАТУВКА

ОсОО «Профи.Лаб»
г. Бишкек,
ул. Тоголок-Молдо, 60^а
каб. 319. тел.0312325067
сот. 0701005051

e-mail: profilab.ltd@mail.ru

ПРОТОКОЛ ИЗМЕРЕНИЯ ШУМА

№ 17 от «12» августа 2022г.

1. Юридическое лицо, индивидуальный предприниматель или физическое лицо, где производятся измерения, адрес: **ФКО «Китайская железнодорожная инженерная групповая компания №5» в КР. Нарынская область, Жумгалский и Кочкорский район.**

2. Объект, где производятся измерения: **Автоморога Жумгал-Кочкор км 89+500 с. Эпкин- км 159+200 Дыйкан**

(наименование, фактический адрес)

3. Основание для проведения измерения: **Договор № 94**

4. Наименование средств измерений и сведения о калибровке измеряемого прибора:

Наименование средства измерения	Номер	Сертификат о калибровке		Межкалибровочный интервал
		номер	Дата	
Экофизика - 110А	№АВ 130044	№ 0053	15.03.2022 г.	12 месяцев

5. Нормативная документация, в соответствии с которой проводились измерения:

ГОСТ 23337-2014 Шум. Методы измерения шума на селитебной территории и в помещениях жилых и общественных зданий.

ГОСТ 20444-2014. Транспортные потоки. Методы определения шумовой характеристики.,

6. Условия окружающей среды: Температура: 24 °С

Влажность: 29%

7. Источники физических факторов и их характеристики: Транспортный поток.

8. Эскиз:



Места где были произведены замеры. Контрольная точка – ☆

9. Дата произведеибе измерения: «11» августа 2022 г.

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Результаты измерений:

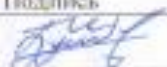

№	Место измерений	Характер шума						Уровни звукового давления в дБ в октавных полосах со среднегеометрическими частотами в Гц										Уровень шума (дБА)
		По спектру			По времени			31,5	63	125	250	500	1000	2000	4000	8000		
		Широкополосный	Узкополосный	Временный	Конт.	Продолжит.	Импульсный											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
с. Тугол Сай, рядом с магазином «Кутман», южная сторона дороги 151+000км. Время 09:20 Широта: 41°58'56"; долгота: 74°49'49". Фоновый уровень шума.																		
1	Leq							64	73	65	62	67	62	58	52	46	67 факт	
	Slow max																76	
Северо-восточная сторона АБЗ и ДСУ, с. Тугол-Сай 149+000. Время 09:50 Широта: 41° 59'33"; Долгота: 74°45'51". Фоновый уровень шума.																		
2	Leq							77	57	57	57	56	55	46	41	38	58 факт	
	Slow max																67	
с. Куйручук, рядом с магазином "Азамат" западная сторона км 144+000. Время 10:50 Широта: 42° 1'30"; долгота: 74°58'35". Фоновый уровень шума.																		
3	Leq							77	66	63	58	57	55	52	46	41	60 факт	
	Slow max																72	
с. Жумгал, рядом со школой на дороге. Левая сторона, км- 129+400. Время 11:50 Широта: 42° 42'33"; долгота: 75°50'44". Фоновый уровень шума.																		
4	Leq							61	63	58	58	55	52	49	45	40	54 факт	
	Slow max																67	
с. Тугол Сай, рядом с магазином «Кутман» южная сторона дороги 151+000км. Время 12:50 Широта: 41°58'56"; долгота: 74°49'49". Фоновый уровень шума.																		
5	Leq							72	66	65	61	60	59	55	50	43	63 факт	
	Slow max																78	
Северо-восточная сторона АБЗ и ДСУ, с. Тугол-Сай 149+000. Время 13:30 Широта: 41° 59'33"; Долгота: 74°45'51". Фоновый уровень шума.																		
6	Leq							68	56	46	42	45	40	42	37	37	48 факт	
	Slow max																75	

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Результаты измерений:

№	Место измерений	Характер шума						Уровень звукового давления в дБ в октавных полосах со среднегеометрическими частотами в Гц									Уровень шума (дБА)
		По спектру			По времени			31,5	63	125	250	500	1000	2000	4000	8000	
		Широкополосный	Тонкополосный	Постоянный	Квазипостоянный	Прерывистый	Импульсный										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
с. Куйручук, рядом с магазином "Азамат", западная сторона км 144+000. Время 14:15																	
Широта: 41° 59'33"; Долгота: 74°45'51". Фоновый уровень шума.																	
7	Leq							82	76	70	69	67	63	59	57	56	67 факт
	Slow max																82
с. Жумгал, рядом со школой на дороге. Левая сторона, км- 129+400. Время 15:10																	
Широта: 42° 42'33; долгота: 75°50'44". Фоновый уровень шума.																	
8	Leq							80	67	62	58	55	51	49	46	41	57 факт
	Slow max																71
с. Тугол Сай, рядом с магазином «Кутман» южная сторона дороги 151+000км. Время 16:00																	
Широта: 41°58'56; долгота: 74°49'49". Фоновый уровень шума.																	
9	Leq							74	67	66	60	62	59	54	51	44	65 факт
	Slow max																79
Северо-восточная сторона АБЗ и ДСУ, с. Тугол-Сай 149+000. Время 16:40																	
Широта: 41° 59'33"; Долгота: 74°45'51". Фоновый уровень шума.																	
10	Leq							66	55	44	43	44	41	41	38	36	46 факт
	Slow max																71
с. Куйручук, рядом с магазином "Азамат", западная сторона км 144+000. Время 17:40																	
Широта: 42° 1'30; долгота: 74°58'35". Фоновый уровень шума.																	
11	Leq							86	78	71	72	69	64	60	57	57	68 факт
	Slow max																85
с. Жумгал, рядом со школой на дороге. Левая сторона, км- 129+400. Время 18:30																	
Широта: 42° 42'33; долгота: 75°50'44". Фоновый уровень шума.																	
12	Leq							82	69	61	59	57	52	50	48	42	59 факт
	Slow max																74

Уполномоченный представитель объекта, присутствующий при проведении измерений:
фамилия, имя, отчество Нурдинов Н.
должность инженер эколог
Подпись _____

Должность	ФИО	Подпись
Генеральный директор	Булаибеков И. А.	
Начальник ОЛ	Аманова Н. Т.	

Протокол составляется в двух экземплярах, 1 экземпляр выдается по месту требования, 2-й экземпляр остается в лаборатории.

Примечание: Результаты протоколов соответствуют на момент проведенных измерений.
Переписка протокола без разрешения начальника лаборатории запрещена.
Результаты измерений относятся только данным объектам.

Конец протокола

Заключение по результатам замеров: на момент проведения замеров уровень шума в измеренных точках у дороги составляло от 46 дБа до 68 дБа.

Санитарный врач:
МП


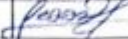



подпись

Джообазаров Н. К.
ФИО

страница: 4 из 4

Уполномоченный представитель объекта, присутствующий при проведении измерений:
фамилия, имя, отчество Нуриддин Н.
должность инженер эколог
Подпись _____

Должность	ФИО	Подпись
Начальник ОЛ	Аманова Н. Т.	
Инженер	Нуриддин у. Т.	

Протокол составляется в двух экземплярах, 1 экземпляр выдается по месту требования,
2-й экземпляр остается в лаборатории.

Примечание: Результаты протокола соответствуют на момент проведенных измерений.

Перепечатка протокола без разрешения начальника лаборатории запрещена.

Результаты измерений относятся только данным объектам.

Конец протокола

Заключение по результатам замеров: на момент проведения замеров уровень шума в
измеренных точках у дороги составляло от 53 дБа до 69 дБа.



Инженерный центр:


подпись

Джоббатаров Н. К.
ФИО

страница: 4 из 4

ANNEX 3. Audit/Inspection Report communicated via official letters

#1


CAREC CORRIDORS 1 and 3 Connector Road Project Engineering and Construction Supervision	Gentek Consult Ltd.	CAREC CORRIDORS 1 and 3 Connector Road Project Engineering and Construction Supervision	Gentek Consult Ltd.
<p>CAREC Corridors, 1 & 3 Connector Road Project, Section 2B September 01, 2022/158</p> <p>For: China Railway No.5 Engineering Group Co., Ltd. Attn.: Mr. Zhang Liang Project Manager</p> <p>Copy: Ministry of Transport and Communication of the Kyrgyz Republic Attn.: Mr. Ibrahimov Sanjar Head of PSU</p> <p>Subject: Environmental Monitoring</p> <p>Dear Mr. Zhang Liang,</p> <p>Within the framework of the ongoing CAREC Corridors, 1 & 3 Connector Road Project (Section 2B "Epkin Road [km 89] - Bishkekzhangydy [km 159]) on August 27-28, 2022, the local environmental specialist of Gentek Consult Ltd., T.N. Zharmatov, together with the environmental engineer of the contractor "China Railway No. 5 Engineering Group Co., LTD", N. Nurdinov, carried out visual monitoring of compliance with environmental requirements at construction sites, quarries, spoil areas, the territory of the residential camp and the production site.</p> <p>Based on the results of this visit, a number of violations of the requirements of the SSEMP, as well as the Safeguard Policy Statement of Asian Development Bank, were identified. Please, see the attached photos.</p> <p>Based on the result of visual monitoring, hereby you are notified that all the remarks listed below must be eliminated by September 05, 2022.</p> <ol style="list-style-type: none"> On the territory of the production base and the camp, fire safety was not organized (a complete fire shield, fire extinguishers, barrels with sand, a bucket, a shovel, etc.); Cleanliness is not maintained on the territory of the camp and the production base, household waste and other waste is not removed from the garbage site; Automobile oils were spilled into the ground at the parking lot for heavy vehicles; The electrical panel is made of wood, but not iron; 	<p>CAREC Corridors, 1 & 3 Connector Road Project, Section 2B 01 сентябрь 2022г./158</p> <p>Комп: China Railway No.5 Engineering Group Co., Ltd. Г-ну Чжан Лианг Менеджер Проекта</p> <p>Копия: Министерство Транспорта и Коммуникации Кыргызской Республики Г-ну Ибраимову Санжару Руководитель ПСУ</p> <p>Омн-но: Мониторинг окружающей среды</p> <p>Уважаемый г-н Чжан Лианг,</p> <p>В рамках реализуемого проекта «Коридоры ЦАРЭС 1 и 3 Пути Соединения (Участок 2B "Автомаргата Эпкин [км 89] - Бишкекжаныды [км 159])» 27-28 августа 2022 г. местным специалистом по охране окружающей среды компании «Гентек» Т.Н. Жарматовым совместно с инженером-экологом подрядчика «China Railway No5 Engineering Group Co., LTD» Н. Нурдиновым был проведен визуальный мониторинг по соблюдению экологических требований на строительных участках, карьерах, отвалах, территории жилого лагеря и производственной площадки.</p> <p>По результатам данного посещения были выявлены ряд нарушений требований СПУОСКУ, а также Политики по защите банка Азиатского Банка Развития. Фотографии прилагаются.</p> <p>На основании результата визуального мониторинга, уведомляю вас о том, что все перечисленные ниже замечания необходимо устранить в срок до 05-сентября 2022 года.</p> <ol style="list-style-type: none"> На территории производственной базы и лагеря не была организована противопожарная безопасность (укомплектованный пожарный щит: огнетушитель, бочки с песком, ведро, лопата и т.д.); На территории лагеря и производственной базе не соблюдается чистота, бытовые отходы и другие отходы не вывозятся из мусорной площадки; На стоянке для большегрузной техники в грунт пролиты автомобильные масла; 	<p>5. At the production base, oil barrels are not covered and the foundation platform is not concreted;</p> <p>6. The generator is not fixed at the production base;</p> <p>7. Fire shields are not complete with fire extinguishing tools.</p> <p>Attachment: photos – 8 pages</p> <p>Thanking you, Best regards, Selcuk Mufit Team Leader</p> 	<p>4. Электрический щит сделан из дерева, а не железный;</p> <p>5. На производственной базе бочки из-под масла не прикрыты и нет их заботирование;</p> <p>6. Генератор на производственной базе не зафиксирован;</p> <p>7. Противопожарные щиты не укомплектованы.</p> <p>Приложение: фото – 8 стр.</p> <p>Елтигуро Вис, С уржакенде, Селчук Мутлу Руководитель группы</p>
1/2	2/2	<p>Received by / Пошунат (а) _____ / 2022г.</p> <p style="text-align: right;">Signature / Подпись _____ / Имя / Фамилия _____</p>	

Фото 1,2,3,4: На территории лагеря и производственной базе не соблюдается чистота, бытовые отходы и другие отходы не вывозятся из мусорной площадки (мусорная площадка переполнена и стоит зловещая воня)

Photos 1, 2, 3, 4: Cleanliness is not maintained on the territory of the camp and the production base, household waste and other waste is not removed from the garbage area (the garbage area is overfull with trash and there is an ominous stench)





Photos 4, 5: Automobile oils spilled into the ground in the parking lot for heavy vehicles

Фото 4,5: На стоянке для большегрузной техники в грунт пролиты автомобильные масла



Photo 6: The electrical panel is made of wood, but not iron.

Фото 6: Электрический щит сделан из дерева, а не железный.



Photo 7: At the production base, oil barrels are not covered and the foundation platform is not concreted

Фото 7: На производственной базе бочки из под масла не прикрыты и низ не забетонирован



Photo 8: The generator is not fenced at the production base

Фото 8. Генератор на производственной базе не огражден



Photo 9: Fire shields are not complete with fire extinguishing tools

Фото 9: Противопожарные щиты не укомплектованы



<p>CAREC CORRIDORS</p>	<p>Gentek Consult Ltd.</p>	<p>CAREC CORRIDORS</p>	<p>Gentek Consult Ltd.</p>
<p>1 and 3 Connector Road Project Engineering and Construction Supervision</p>		<p>1 and 3 Connector Road Project Engineering and Construction Supervision</p>	
<p>CAREC Corridors, 1 & 3 Connector Road Project, Section 2B September 28, 2022/170</p>	<p>CAREC Corridors, 1 & 3 Connector Road Project, Section 2B 28 сентября 2022г./170</p>	<p>legislative acts and regulatory and instructional guidance documents:</p>	<p>перечисленными законодательными актами и нормативно-инструктивными документами:</p>
<p>To: China Railway No.5 Engineering Group Co., Ltd. Attn.: Mr. Zhang Liang Project Manager</p> <p>Copy: Ministry of Transport and Communication of the Kyrgyz Republic Attn.: Mr. Ibraimov Sanjar Head of PIU</p> <p>Subject: Environmental monitoring issues</p>	<p>Кому: China Railway No.5 Engineering Group Co., Ltd. Г-ну Чжан Лиан Менеджер Проекта</p> <p>Копия: Министерство Транспорта и Коммуникации Кыргызской Республики Г-ну Ибраимову Санжару Руководитель ГРП</p> <p>Отно-по: Проблемы согласно мониторинга окружающей среды</p>	<ul style="list-style-type: none"> - Law of the Kyrgyz Republic "On Environmental Protection" (No. 53 dtd. June 16, 1999) - Law of the Kyrgyz Republic "On Ecological Expertise" (No. 54 dtd. June 16, 1999) - Law of the Kyrgyz Republic "On the Protection of Atmospheric Air" (No. 51 dtd. June 12, 1999) - Law of the Kyrgyz Republic "On production and consumption waste" (No. 53 dtd. October 13, 2001) - Law of the Kyrgyz Republic "On the rate of payment for environmental pollution (emissions, discharges of pollutants, waste disposal)" (No. 32 dtd. March 10, 2002) - Law of the Kyrgyz Republic "On Subsoil" (No. 42 dtd. July 02, 1997) - Law of the Kyrgyz Republic "On the Fauna" (No. 59 dtd. June 17, 1999) - Law of the Kyrgyz Republic "On the protection and use of flora" (No. 53 dtd. June 20, 2001) - Land Code of the Kyrgyz Republic (No. 45 dtd. June 02, 1999) - Water Code of the Kyrgyz Republic (No. 8 dtd. January 12, 2005) - SanPid 2.1.6.009-03 "Atmospheric air and indoor air, sanitation and air protection" - Law of the Kyrgyz Republic "On the protection and use of historical and cultural heritage" No. 91 dated July 26, 1999; - Land Code of the Kyrgyz Republic No. 45 dated June 02, 1999; - Instructions on the organization of zones for the protection of immovable objects of historical and cultural heritage of the Kyrgyz Republic dated July 27, 2015 - Sanitary rules and norms "Noise at workplaces, in residential premises, public buildings and in residential areas", No. 201 dated April 04, 2016; 	<ul style="list-style-type: none"> - Закон Кыргызской Республики "Об охране окружающей среды" (16 июня 1999 года. № 53) - Закон Кыргызской Республики "Об экологической экспертизе" (16 июня 1999 года. № 54) - Закон Кыргызской Республики "Об охране атмосферного воздуха" (12 июня 1999 года. № 51) - Закон Кыргызской Республики "Об отходах производства и потребления" (13 октября 2001 года. № 53) - Закон Кыргызской Республики "О ставке платы за загрязнения окружающей среды (выбросы, сбросы загрязняющих веществ, размещение отходов (10 марта 2002 года. № 32) - Закон Кыргызской Республики "О недрах" (02 июля 1997 года № 42) - Закон Кыргызской Республики "О животном мире" (17 июня 1999 года. № 59) - Закон Кыргызской Республики "Об охране и использовании растительного мира" (20 июня 2001 года. № 53) - Земельный кодекс Кыргызской Республики (02 июня 1999 года. № 45) - Водный кодекс Кыргызской Республики (12 января 2005 года №8) - СанПид 2.1.6.009-03 " Атмосферный воздух и воздух закрытых помещений, санитарии и охраны воздуха" - Закон Кыргызской Республики № 91 от 26 июля 1999 года «Об охране и использовании историко-культурного наследия»; - Земельный кодекс КР от 02 июня 1999 года, № 45; - Инструкция по организации зон охраны недвижимых объектов историко-культурного наследия Кыргызской Республики от 27 июля 2015 года - Санитарные правила и нормы «Шум на рабочих местах, в жилых помещениях, общественных зданиях и на территории жилой застройки», 04 апреля 2016 года. № 201;
<p>Dear Mr. Zhang Liang,</p>	<p>Уважаемый г-н Чжан Лиан,</p>		
<p>Within the framework of the ongoing project "CAREC Corridors, 1 & 3 Connector Road Project (Section 2B "Epkin Road [km 89]] - Bashkuugandy [km 159])" on August 24-25, 2022 the local environmental specialist of Gentek Consult Ltd., T.N. Zhumaliyev, together with the environmental engineer of China Railway No. 5 Engineering Group Co., LTD, N. Nurdinov, carried out visual monitoring of compliance with environmental requirements at construction sites, quarries, spoil areas, the camp and the production site.</p> <p>Based on the results of this inspection, a number of violations of the requirements of the SSEMP, as well as the Asian Development Bank Safeguard Policy, were identified. Please, see the photos in attachment.</p> <p>The SSEMP (Contractor's Site Specific Environmental Management Plan) states:</p> <p>China Railway No. 5 undertakes in its construction activities to be strictly guided by the laws and regulations of the Kyrgyz Republic in the field of environmental protection, labor protection, safety, environmental safety and industrial sanitation and to ensure the availability of all permits necessary for the performance of work during the rehabilitation of roads and the use of natural resources in accordance with the following</p>	<p>В рамках реализуемого проекта «Коридоры ЦАРЭС 1 и 3 Пути Соединения (Участок 2В "Автомаргата Эпкин [км 89] - Башкууганды [км 159])» 24-25 августа 2022 г. местным специалистом по охране окружающей среды компании «Gentek» Т.Н. Жумалиевым совместно с инженером-экологом подрядчика «China Railway №5 Engineering Group Co., LTD» Н. Нурдиновым был проведен визуальный мониторинг по соблюдению экологических требований на строительных участках, карьерах, отвалах, территории жилого лагеря и производственной площадки.</p> <p>По результатам данного посещения были выявлены ряд нарушений требований СПУОСКУ, а также Политики по защитным мерам Азиатского Банка Развития. Фотографии прилагаются.</p> <p>ПУОСКУ (План управления охраны окружающей среды на конкретном участке подрядчика) указано:</p> <p>China Railway №5 обязуется в своей строительной деятельности неукоснительно руководствоваться законодательными и нормативными актами Кыргызской Республики в области охраны окружающей среды, охраны труда, техники безопасности, экологической безопасности и производственной санитарии и обеспечить наличие всех разрешительных документов, необходимых при производстве работ при реабилитации дорог и использовании природных ресурсов в соответствии с инже-</p>		
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- "Recommendations for the treatment of household waste" No. P-69 dated November 13, 2007;

- The procedure for handling production and consumption waste, No. 559 dated September 05, 2015;

- Procedure for handling hazardous waste No. 885 dated December 28, 2015;

- Rules for the protection of surface waters No. 128 dated March 14, 2016;

- Regulation on the protection of atmospheric air No. 59 dated February 13, 2015;

- Hygienic standards "Approximate safe levels of exposure to pollutants in the atmospheric air of populated areas" No. 201 dated April 04, 2016;

- Hygienic standards "Maximum permissible concentrations of pollutants in the atmospheric air of populated areas" No. 201 dated November 04, 2016;

- Hygienic standards "Maximum permissible concentrations and approximately permissible amounts of chemicals in the soil" No. 201 dated April 11, 2016.

The SSEMP will be a dynamic document that will be updated and modified as necessary in line with additional baseline inspection results, contractor's performance and monitoring results. The PIU will monitor and quantify the implementation of the SSEMP. Therefore, during the construction phase, the Contractor will submit monthly reports to the Construction Supervision Consultant (CSC) on compliance with mitigation measures and other corrective actions. The CSC will prepare and submit to the MoTC semi-annual reports on the results of monitoring and implementation of safeguards within 1 month after the reporting period. MoTC will then submit it to ADB and make it available on the ADB, MoTC websites. All material changes will be discussed and agreed with ADB.

1. Coal was brought and stored at the camp territory, next to the canteen for contractor. Urgently

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- «Рекомендации по обращению с бытовыми отходами» от 13 ноября 2007 года № П-69;

- Порядок обращения с отходами производства и потребления, 05 сентября 2015 год № 559;

- Порядок обращения с опасными отходами от 28 декабря 2015 года № 885;

- Правила охраны поверхностных вод от 14 марта 2016 года № 128;

- Положение об охране атмосферного воздуха от 13 февраля 2015 года № 59;

- Гигиенические нормативы «Приблизительные безопасные уровни воздействия загрязняющих веществ в атмосферном воздухе населенных мест» от 04 апреля 2016 года № 201;

- Гигиенические нормативы «Предельно допустимые концентрации загрязняющих веществ в атмосферном воздухе населенных мест» от 04 ноября 2016 года № 201;

- Гигиенические нормативы «Предельно допустимые концентрации и приближенно допустимые количества химических веществ в почве» от 11 апреля 2016 года № 201.

ПУОСКУ будет динамичным документом, который будет обновляться и изменяться по мере необходимости и соответствии с результатами дополнительных базовых обследований, результатами работы подрядчика и результатами мониторинга. ГРП будет контролировать и количественно определять реализацию ПУОСКУ. Поэтому на этапе строительства Подрядчик будет ежемесячно представлять Коваленту по надзору за строительством (КНС) отчеты о соблюдении мер по смягчению последствий и других корректирующих действий. КНС подготовит и в течение 1 месяца после отчетного периода представит в МТД полугодовые отчеты о результатах мониторинга и реализации защитных мер. Затем МТД представит его в АБР и раскроет его на веб-сайтах АБР, МТД. Все существенные изменения будут обсуждаться и согласовываться с АБР.

1. На территории лагеря, рядом столовой для подрядчиков, был завезен и складирован

it shall be removed and stored at another designated place;

SSEMP Requirement: Possible impact and source: Occupational health and safety.

Mitigation measures: Compliance with all fire safety requirements in accordance with the Law of the Kyrgyz Republic "On ensuring fire safety" No. 78 dated June 7, 2016.

APPENDIX D – CONSTRUCTION CAMP LIFE MANAGEMENT PLAN:

Office and residential premises, a kitchen block with a common dining room, a testing laboratory, a first-aid post, a laundry, a workshop, storage facilities, sports grounds, sheds for construction equipment and platforms for their maintenance, as well as a public toilet will be built and operate in the camp.

Here, the place for storing coal is not indicated, coal is a rapidly flammable material, respectively, storing coal in the camp does not comply with the fire safety.

2. It is necessary to fence off the garbage site, due to the fact that household waste is scattered nearby on the field of the local ayil-okmott: - "Recommendations for the treatment of household waste" No. P-69 dated November 13, 2007;

- The procedure for handling production and consumption waste, No. 559 dated September 05, 2015;

SSEMP Requirement: Occupational Health, Safety and Hygiene Measures: Timely and safe disposal of waste generated in the workplace. The Contractor provides:

- installation of garbage cans and provision of everything necessary for their temporary storage until final removal;

- keeping cleanliness and order on the territory of the construction camp;

- conclusion of an agreement with a special local company for the removal and placement in

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уголь. Нужно срочно вывезти и складировать на другом положенном месте;

Требование ПУОСКУ: Возможное влияние и источник: Здоровье и безопасность труда.

Меры по смягчению последствий: Соблюдение всех требований пожарной безопасности в соответствии с Законом Кыргызской Республики от 7 июня 2016 года № 78 «Об обеспечении пожарной безопасности».

ПРИЛОЖЕНИЕ D – ПЛАН УПРАВЛЕНИЯ ЖИЗНЕДЕЯТЕЛЬНОСТЬЮ СТРОИТЕЛЬНОГО ЛАГЕРЯ:

В лагере будут построены и функционируют офисные и жилые помещения, столовая блок с общей столовой, испытательная лаборатория, медпункт, прачечная, мастерская, складские помещения, спортивные площадки, навесы для строительной техники и площадки для их обслуживания, а также общественный туалет.

Здесь место для складирования угля не указано, уголь относится к быстро воспламеняемому материалу, соответственно складирование угля на территории лагеря противозакономерно пожарной безопасности.

2. Необходимо огородить мусорную площадку, в связи с тем, бытовые отходы разбрасываются рядом на поле местной айыл-окмотту; - «Рекомендации по обращению с бытовыми отходами» от 13 ноября 2007 года № П-69;

- Порядок обращения с отходами производства и потребления, 05 сентября 2015 год № 559;

Требование ПУОСКУ: Меры по охране труда, здоровья и гигиены: своевременная и безопасная утилизация отходов, образующихся на рабочих местах. Подрядчик обеспечивает:

- установку мусорных баков и обеспечение всего необходимого для их временного хранения до окончательного вывоза;

- поддержку на территории строительного лагеря чистоты и порядка;

- заключение договора со специальной местной компанией для вывоза и размещения в

especially designated areas of household, hazardous and liquid waste.

The Technical Specification for the project regarding waste management states that the requirements of the regulatory legal acts of the Kyrgyz Republic: the Law "On Environmental Protection", the Law "On Production and Consumption Wastes" shall be strictly observed.

3. On the territory of the production base and the camp, there is an improper organization of fire safety (the boxes are not filled with sand);

SSEMP Requirement: Possible impact and source: Occupational health and safety.

Mitigation measures: Compliance with all fire safety requirements in accordance with the Law of the Kyrgyz Republic "On ensuring fire safety" No. 78 dated June 7, 2016.

4. Automobile oils spilled into the ground on the parking lot for heavy vehicles;

SSEMP requirement: Environmental safety: - disposal of fuels and lubricants into open ground and water is prohibited;

- places for collecting liquid waste shall not have leaks into the ground;

- spills of fuel and lubricants shall be removed immediately, and means for their removal and cleaning of the soil shall be stored in the camp for subsequent disposal;

- the camp shall have equipment and materials to clean up fuel spills.

- maintenance of equipment in order to avoid the ingress of oils and fuels and lubricants into the soil shall be carried out in places specially equipped with a protective layer;

- in the event of accidental spills of fuel and lubricants and oil, they shall be eliminated immediately;

5. The electrical panel (where the automatic circuit breaker is fixed) is made of wood, it shall be remade from iron material;

специально отведенных местах бытовых, опасных и жидких отходов.

В Технической спецификации проекта относительно обращения с отходами отмечено, что требования нормативно-правовых актов Кыргызской Республики: Закона «Об охране окружающей среды», Закона «Об отходах производства и потребления» должны соблюдаться в строгом порядке.

3. На территории производственной базы и лагеря слабая организация противопожарной безопасности (ящики не заполнены песком);

Требование ПУОСОКУ: Возможное влияние и источник: Здоровье и безопасность труда.

Меры по смягчению последствий: Соблюдение всех требований пожарной безопасности в соответствии с Законом Кыргызской Республики от 7 июня 2016 года № 78 «Об обеспечении пожарной безопасности».

4. На стоянке для большегрузной техники в грунт пролиты автомобильные масла;

Требование ПУОСОКУ: Экологическая безопасность: - запрещена утилизация ГСМ в открытый грунт и воду;

- места сбора жидких отходов не должны иметь протечек в грунт;

- разливы ГСМ должны немедленно удаляться, а средства для их удаления и очистки грунта должны храниться в лагере для последующей утилизации;

- в лагере должно быть оборудование и материалы для устранения разливов ГСМ;

- техническое обслуживание техники во избежание попадания масел и ГСМ в почву должно проводиться на специально оборудованных защитным слоем местах;

- при возникновении случайных разливов ГСМ и масла необходимо немедленно их устранить;

5. Электрический щит (где закреплен автомат) сделан из дерева, необходимо переделать из железного материала;

Требование ПУОСОКУ: Возможное влияние и источник: Здоровье и безопасность труда.

SSEMP Requirement: Possible impact and source: Occupational health and safety.

Mitigation measures: Compliance with all fire safety requirements in accordance with the Law of the Kyrgyz Republic "On ensuring fire safety" No. 78 dated June 7, 2016.

6. The generator is not completely fenced at the production base;

SSEMP Requirement: Possible impact and source: Occupational health and safety.

Mitigation measures: Compliance with all fire safety requirements in accordance with the Law of the Kyrgyz Republic "On ensuring fire safety" No. 78 dated June 7, 2016.

7. Old asphalt is stored at the quarry No. 94+080, which is not acceptable. It is necessary to take to the internal roads of nearby villages with the approval of the ayyl-okmotu, or to spoil areas.

SSEMP Requirement: Possible impact and source: Siltation of surface water and/or impact on soil due to improper disposal of waste materials.

Mitigation measures: Basically all excavated material will be reused. In addition, reclaimed asphalt will be recycled for:

1. Transfer of old asphalt to the local department of MoTC for backfilling of secondary roads;

2. Use of old asphalt to reinforce the top surface of the road shoulders by adding a 15 cm thick gravel-sand mixture. In this way, potential impacts due to the need to dispose of excess material will be minimized.

Places for spoil areas to place the old asphalt are not required, because the old asphalt is planned to be used for laying the road base (where the road widens) and improving secondary roads inside the villages. However, if it becomes necessary to obtain places for spoil areas to place old asphalt, this issue will be worked out with local authorities and agreed with the territorial departments of environmental protection.

Меры по смягчению последствий: Соблюдение всех требований пожарной безопасности в соответствии с Законом Кыргызской Республики от 7 июня 2016 года № 78 «Об обеспечении пожарной безопасности».

6. Генератор на производственной базе полностью не огражден;
Требование ПУОСОКУ: Возможное влияние и источник: Здоровье и безопасность труда.

Меры по смягчению последствий: Соблюдение всех требований пожарной безопасности в соответствии с Законом Кыргызской Республики от 7 июня 2016 года № 78 «Об обеспечении пожарной безопасности».

7. В карьере №94+080 был складирован старый асфальт, что это не допустимо. Необходимо вывезти на внутренние дороги близко расположенных сел с согласованием айыл-окмоту, либо на отвалы.

Требование ПУОСОКУ: Возможное влияние и источник: Загрязнение поверхностных вод и/или воздействие на почву из-за неправильной утилизации отходов.

Меры по смягчению последствий: В основном весь выкопанный материал будет использован повторно. К тому же, мелкораздробленный асфальт будет перерабатываться для:

1. Передачи старого асфальта в местное управление МТД для засыпки второстепенных дорог;

2. Использования старого асфальта, чтобы укрепить верхнее покрытие дорожных обочин, добавив гравийно-песчаную смесь толщиной 15 см. Таким образом, потенциальные воздействия из-за необходимости утилизации лишнего материала будут сведены к минимуму.

Места под размещение отходов старого асфальта не требуются, т.к. старый асфальт планируется использовать при укладке основной дороги (в местах расширения дороги) и улучшения второстепенных дорог внутри сел. Однако в случае возникновения необходимости получения мест под отвалы для размещения старого асфальта, данный вопрос будет

Waste rock, **old asphalt**, aggregates, concrete structures, non-ferrous metals, and glass can be safely landfilled.

Land use is carried out in accordance with the requirements of the Land Code of the Kyrgyz Republic and is aimed at ensuring the safety of ecological systems.

Based on the result of visual monitoring, hereby you are notified that all the remarks listed above shall be eliminated by October 01, 2022.

Attachment – photos 8 sheets

Thanking you,
Best regards,
Selyuk Mutlu
Team Leader



проработан с местными органами власти и согласован с территориальными управлениями ООС.

Пустая порода, **старый асфальт**, инертные материалы, бетонные конструкции, цветные металлы, стекло, которые могут быть безопасно размещены на свалке.

Землепользование осуществляется в соответствии с требованиями Земельного кодекса Кыргызской Республики и направлено на обеспечение безопасности экологических систем.

На основании результата визуального мониторинга, уведомляем вас о том, что все перечисленные выше замечания необходимо устранить в срок до 01-октября 2022 года.

Приложение – фото на 8 листах

Благодарю Вас.
С уважением,
Сельчук Мутлу
Руководитель группы

Received by / Получил (а) _____
Signature / Подпись

_____/_____/2022r.
Date / Дата

7/15

Photo 1: Stored coal at the camp
Фото 1: Складированный уголь на территории лагеря



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Photo 2. The territory of the garbage site
Фото 2. Территория мусорной площадки



Photo 3. Garbage is scattered in the field next to the garbage site
Фото 3. Мусор разбрасывается в поле рядом мусорной площадки



Photo 4: Automotive oils spilled into the ground at the parking lot for heavy vehicles
Фото 4: На стоянке для большегрузной техники в грунт пролиты автомобильные масла



Photo 5: The inside of the electrical panel is made of wood, it shall be remade from iron material.
Фото 5: Внутренняя часть электрического щита сделана из дерева, нужно переделать из железного материала.

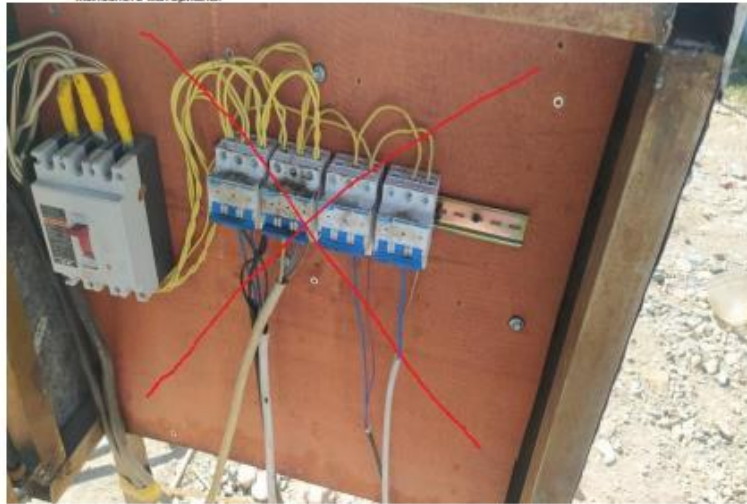


Photo 6: The generator is not completely fenced at the production base
Фото 6. Генератор на производственной базе полностью не огражден



Photo 7: The boxes are not filled with sand
Фото 7: Ящики не заполнены песком



Photo 8. Old asphalt on the territory of the quarry No. 94+080
Фото 8. Старый асфальт на территории карьера №94+080



<p>CAREC CORRIDORS</p>	<p>Gentek Consult Ltd.</p>	<p>CAREC CORRIDORS</p>	<p>Gentek Consult Ltd.</p>
<p>1 and 3 Connector Road Project Engineering and Construction Supervision</p>		<p>1 and 3 Connector Road Project Engineering and Construction Supervision</p>	
<p>CAREC Corridors, 1 & 3 Connector Road Project, Section 2B October 17, 2022/184</p> <p>To: China Railway No.5 Engineering Group Co., Ltd. Attn.: Mr. Zhang Liang Project Manager</p> <p>Copy: Ministry of Transport and Communication of the Kyrgyz Republic Attn.: Mr. Ibraimov Sanjar Head of PIU</p> <p>Subject: Missed Environmental Issues in Contractor's Reply Letter</p> <p>Reference: Contractor's Letter to Engineer No: CR5-ED-192 dtd. 15.10.2022 Engineer's Letter to Contractor No: CR5-170 dtd. 28.09.2022</p> <p>Dear Mr. Zhang Liang,</p> <p>On 15.10.2022, the Contractor sent a letter No. CR5-ED-192 in response to the letter of the Consultant No: CR5-170 dtd. 28.09.2022 regarding the problem of monitoring and controlling the environment. Unfortunately, a number of items were not implemented in this report, such as:</p> <p>1. It is necessary to fence off the garbage site, due to the fact that household waste is scattered nearby on the field of the local ayil-okmoti; - <i>"Recommendations for the treatment of household waste" No. P-69 dated November 13, 2007;</i> - <i>The procedure for handling production and consumption waste, No. 559 dated September 05, 2015;</i></p> <p><i>SSEMP Requirement: Occupational Health, Safety and Hygiene Measures: Timely and safe disposal of waste generated in the workplace. The Contractor provides:</i> - <i>installation of garbage cans and provision of everything necessary for their temporary storage until final removal;</i> - <i>keeping cleanliness and order on the territory of the construction camp;</i></p>	<p>CAREC Corridors, 1 & 3 Connector Road Project, Section 2B 17 октября 2022г./184</p> <p>Комп: China Railway No.5 Engineering Group Co., Ltd. Г-ну Чжан Лианг Менеджер Проекта</p> <p>Копия: Министерство Транспорта и Коммуникации Кыргызской Республики Г-ну Ибраимову Санжару Руководитель ГРП</p> <p>Относно: Упущенные пункты по охране окружающей среды в ответном письме Подрядчика</p> <p>Ссылка: Письмо Подрядчика Инженеру №: CR5-ED-192 от 15.10.2022г. Письмо Инженера Подрядчику №: CR5-170 от 28.09.2022г.</p> <p>Уважаемый г-н Чжан Лианг,</p> <p>15.10.2022 Подрядчиком было отправлено письмо №CR5-ED-192 ответ на письмо консультанта № CR5-170 от 28.09.2022г. относительно проблемы мониторинга и контроля над окружающей средой. К сожалению, в данном отчете не были выполнены ряд пунктов таких как:</p> <p>1. Необходимо огородить мусорную площадку, в связи с тем, бытовые отходы разбрасывается рядом на поле местной айыл-окмоту; - <i>«Рекомендации по обращению с бытовыми отходами» от 13 ноября 2007 года № П-69;</i> - <i>Порядок обращения с отходами производства и потребления, 05 сентября 2015 год № 559;</i></p> <p><i>Требование ПУООСКУ: Меры по охране труда, здоровья и гигиены: своевременная и безопасная утилизация отходов, образующихся на рабочих местах. Подрядчик обеспечивает:</i> - <i>установку мусорных баков и обеспечение всего необходимого для их временного хранения до окончательного вывоза;</i> - <i>поддержку на территории строительного лагеря чистоты и порядка;</i> - <i>заключение договора со специальной местной компанией для вывоза и размещения в</i></p>	<p>- <i>conclusion of an agreement with a special local company for the removal and placement in specially designated areas of household, hazardous and liquid waste.</i></p> <p>2. Automobile oils spilled into the ground on the parking lot for heavy vehicles; <i>SSEMP requirement: Environmental safety: - disposal of fuels and lubricants into open ground and water is prohibited;</i> - <i>places for collecting liquid waste shall not have leaks into the ground;</i> - <i>spills of fuel and lubricants shall be removed immediately, and means for their removal and cleaning of the soil shall be stored in the camp for subsequent disposal;</i> - <i>the camp shall have equipment and materials to clean up fuel spills.</i> - <i>maintenance of equipment in order to avoid the ingress of oils and fuels and lubricants into the soil shall be carried out in places specially equipped with a protective layer;</i> - <i>in the event of accidental spills of fuel and lubricants and oil, they shall be eliminated immediately;</i></p> <p>3. Old asphalt is stored at the quarry No. 94+080, which is not acceptable. It is necessary to take to the internal roads of nearby villages with the approval of the ayil-okmoti, or to spoil areas. <i>SSEMP Requirement: Possible impact and source. Siltng of surface water and/or impact on soil due to improper disposal of waste materials.</i> <i>Mitigation measures: Basically all excavated material will be reused. In addition, reclaimed asphalt will be recycled for:</i></p> <p>1. <i>Transfer of old asphalt to the local department of MoTC for backfilling of secondary roads;</i> 2. <i>Use of old asphalt to reinforce the top surface of the road shoulders by adding a 15 cm thick gravel-sand mixture. In this way, potential impacts due to the need to dispose of excess material will be minimized.</i></p> <p><i>Places for spoil areas to place the old asphalt are not required, because the old asphalt is planned to be used for laying the road base (where the road widens) and improving secondary roads inside the</i></p>	<p>специально отведенных местах бытовых, опасных и жидких отходов.</p> <p>2. На стоянке для большегрузной техники в грунт пролиты автомобильные масла; <i>Требование ПУООСКУ: Экологическая безопасность: - запрещена утилизация ГСМ в открытый грунт и воду;</i> - <i>места сбора жидких отходов не должны иметь протечек в грунт;</i> - <i>разливы ГСМ должны немедленно удаляться, а средства для их удаления и очистки грунта должны храниться в лагере для последующей утилизации;</i> - <i>в лагере должно быть оборудование и материалы для устранения разливов ГСМ.</i> - <i>техническое обслуживание техники во избежание попадания масел и ГСМ в почву должно проводиться на специально оборудованных защищенным слоем местах;</i> - <i>при возникновении случайных разливов ГСМ и масла необходимо немедленно их устранить;</i></p> <p>3. В карьере №94+080 был складирован старый асфальт, что это не допустимо. <i>Требование ПУООСКУ: Возможное влияние и источник: Загрязнение поверхностных вод и / или воздействие на почву из-за неправильной утилизации лишнего материала.</i> <i>Меры по смягчению последствий: В основном весь выкопанный материал будет использован повторно. К тому же, метрированный асфальт будет перерабатываться для:</i></p> <p>1. <i>Передати старого асфальта в местное управление МТД для засыпки второстепенных дорог;</i> 2. <i>Использования старого асфальта, чтобы укрепить верхнее покрытие дорожных обочин, добавив гранитно-песчаную смесь толщиной 15 см. Таким образом, потенциальные воздействия из-за необходимости утилизации лишнего материала будут сведены к минимуму.</i> <i>Места под размещение отвалов старого асфальта не требуются, т.к. старый асфальт планируется использовать при укладке основания дороги (в местах расширения дороги) и улучшения второстепенных дорог внутри сел. Однако в случае возникновения необходимости</i></p>
<p>1/6</p>	<p>2/6</p>		

villages. However, if it becomes necessary to obtain places for spoil areas to place old asphalt, this issue will be worked out with local authorities and agreed with the territorial departments of environmental protection.

Waste rock, old asphalt, aggregates, concrete structures, non-ferrous metals, and glass can be safely landfilled.

Land use is carried out in accordance with the requirements of the Land Code of the Kyrgyz Republic and is aimed at ensuring the safety of ecological systems.

In this regard, you are kindly notified that all the items listed above shall be eliminated by October 20, 2022.

Attachment: photos – 3 sheets

Thanking you.
Best regards,
Selcuk Mutlu
Team Leader



получения мест под отвалы для размещения старого асфальта, данный вопрос будет проработан с местными органами власти и согласован с территориальными управлениями ООС.

Пустая порода, старый асфальт, inertные материалы, бетонные конструкции, цветные металлы, стекло, которые могут быть безопасно размещены на свалке.

Землепользование осуществляется в соответствии с требованиями Земельного кодекса Кыргызской Республики и направлено на обеспечение безопасности экологических систем.

В связи с этим, уведомляем вас о том, что все перечисленные выше пункты необходимо устранить в срок до 20-октября 2022 года.

Приложение: фотографии – 3 листа

Благодарю Вас.
С уважением,
Сельчук Мутлу
Руководитель группы

Received by / Получил (а) _____
Signature / Подпись

_____/_____/2022г.
Date / Дата

3/6

Photo 1. The territory of the garbage site
Фото 1. Территория мусорной площадки



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Photo 2: Garbage is scattered in the field next to the garbage site
Фото 2: Мусор разбрасывается в поле рядом мусорной площадки



Photo 3: Automotive oils spilled into the ground at the parking lot for heavy vehicles
Фото 3: На стоянке для большегрузной техники в грунт пролиты автомобильные масла



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Photo 4: Old asphalt on the territory of the quarry No. 94+080
Фото 4. Старый асфальт на территории карьера №94+080



CAREC CORRIDORS
1 and 3 Connector Road Project
Engineering and Construction Supervision

Gentek Consult Ltd.

<p>CAREC Corridors, 1 & 3 Connector Road Project, Section 2B November 28, 2022/215</p> <p>To: China Railway No.5 Engineering Group Co., Ltd. Attn.: Mr. Zhang Liang Project Manager</p> <p>Copy: Ministry of Transport and Communication of the Kyrgyz Republic Attn.: Mr. Ibraimov Sanjar Head of PIU</p> <p>Subject: Environmental monitoring issues</p> <p>Dear Mr. Zhang Liang,</p> <p>Within the framework of the ongoing project "CAREC Corridors 1 and 3 Connection Road Section 2B, Epkin – Bashkuugandy" on November 26, 2022, T.N. Zhamaliev, local environmental specialist of Gentek Consult LTD together with N. Nurdinov, environmental engineer of China Railway No. 5 Engineering Group Co., LTD, carried out visual monitoring to ensure compliance with environmental requirements at construction sites, quarries, spoil areas, the territory of the residential camp and the production site.</p> <p>Following the results of this visit, a number of violations of the SSEMP requirements, as well as the Asian Development Bank Safeguard Policy, were identified. Photos are attached.</p> <p>Based on the result of visual monitoring, please, be notified that all the listed remarks shall be addressed by December 05, 2022.</p> <p>Thanking you.</p> <p>Best regards, Selyuk Mutlu Team Leader</p>	<p>CAREC Corridors, 1 & 3 Connector Road Project, Section 2B 28 ноября 2022г./215</p> <p>Кому: China Railway No.5 Engineering Group Co., Ltd. Г-ну Чжан Лян Менеджер Проекта</p> <p>Копия: Министерство Транспорта и Коммуникации Кыргызской Республики Г-ну Ибраимову Санжару Руководитель ГРП</p> <p>Отеч-во: Вопросы экологического мониторинга.</p> <p>Уважаемый г-н Чжан Лян,</p> <p>В рамках реализуемого проекта «Коридоры ЦАРЭС 1 и 3 Пути Соединения (Участок 2B "Автомарогора Эпкин [км 89] - Башкууганды [км 159])» 26-ноября 2022 г. местным специалистом по охране окружающей среды компании «Gentek» Т.Н. Жамалиевым совместно с инженером-экологом подрядчика «China Railway №5 Engineering Group Co., LTD» Н. Нурдиновым был проведен визуальный мониторинг по соблюдению экологических требований на строительных участках, карьерах, отвалах, территории жилого лагеря и производственной площадки.</p> <p>По результатам данного посещения были выявлены ряд нарушений требований ПУОСКУ, а также Политики по защитным мерам Азиатского Банка Развития. Фотографии прилагаются.</p> <p>На основании результата визуального мониторинга, уведомляем вас о том, что все перечисленные выше замечания необходимо устранить в срок до 05-декабря 2022 года.</p> <p>Благодарю Вас. С уважением, Сельчук Мутлу Руководитель группы</p>
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Received by / Получил (а) _____
Signature / Подпись


_____/_____/2022г.
Date / Дата

1/4

CAREC CORRIDORS
1 and 3 Connector Road Project
Engineering and Construction Supervision

Gentek Consult Ltd.

Фото 1, 2: На территории лагеря бытовые отходы и другие отходы своевременно не выносятся на мусорную площадку, домашние животные местного населения свободно гуляют по территории лагеря и кушают мусор, рядом мусорной площадкой разбросан мусор и не убирается.
Photo 1, 2: On the territory of the camp, household waste and other waste is not removed to the garbage site in time; pets of the local population roam freely around the camp and eat garbage; garbage is scattered near the garbage site and is not removed.




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Фото 3, 4: Дрова и уголь складированы вперемешку со строительным материалом/
Photo 3, 4: Firewood and coal are stored mixed with building material



3/4

Фото 5: В ангаре для ремонта автомашины разбросаны кислородные баллоны, тем самым, в случае сварочного ремонта автомашины создается опасность взрыва/
Photo 5: Oxygen cylinders are scattered in the car repair work-shop, thus creating a risk of explosion in the event of a welding



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<p style="text-align: center;">CAREC CORRIDORS 1 and 3 Connector Road Project Engineering and Construction Supervision</p> <p style="text-align: right;">Gentek Consult Ltd.</p> <hr/> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> <p>CAREC Corridors, 1 & 3 Connector Road Project, Section 2B December 28, 2022/227</p> <p>To: China Railway No.5 Engineering Group Co., Ltd. Attn: Mr. Zhang Liang Project Manager</p> <p>Copy: Ministry of Transport and Communication of the Kyrgyz Republic Attn: Mr. Ibrahimov Sanjar Head of PIU</p> <p>Subject: Environmental monitoring issues</p> <p>Dear Mr. Zhang Liang,</p> <p>Within the framework of the ongoing project "CAREC Corridors 1 and 3 Connection Road Section 2B, Epkin – Bashkuugandy" on December 21-22, 2022, T.N. Zhumaliev, local environmental specialist of Gentek Consult LTD together with N. 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Нурдиновым был проведен визуальный мониторинг по соблюдению экологических требований на строительных участках, карьерах, отвалах, территории жилого лагеря и производственной площадки.</p> <p>По результатам данного посещения были выявлены ряд нарушений требований ПУОСКУ; а также Погрешки по защитным мерам Азиатского Банка Развития. Фотографии прилагаются.</p> <p>На основании результата визуального мониторинга, уведомляем вас о том, что необходимо устранить в срок до 30-декабря 2022 года устранить и выполнить нижеследующие замечания и требования:</p> <ol style="list-style-type: none"> 1. Своевременно вывезти мусор, содержать в чистоте и безопасности лагерь и производственную базу; 2. Открыть журнал для учета сбора и утилизации отходов; 3. 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1 and 3 Connector Road Project Engineering and Construction Supervision

Фото 1, 2: На территории лагеря бытовые отходы и другие отходы своевременно не вывозятся и не убираются.

Photo 1, 2: On the territory of the camp, household waste and other waste is not removed.



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Фото 3, 4, 5, 6: На стоянке большегрузного транспорта пролита масла в грунт /
Photos 3, 4, 5, 6: Oil was spilled into the ground in the parking lot of heavy vehicles



Фото 7, 8 : В производственной площадке рабочий персонал работает без спец.одежда/
Photos 7, 8 : At the production site, the working staff works without special clothing



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CAREC CORRIDORS

Gentek Consult Ltd.

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