Semi-annual Environmental Monitoring Report

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Semi-annual Environmental Monitoring Report
July to December 2024

Kyrgyz Republic:

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

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Prepared for:

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Approved by: [Name and signature of Executive Agency staff]

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 MNRETS 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
OHS	-	Occupational Health and safety
LLC	-	Limited Liability Company
HCHSPP	-	Historical and Cultural Heritage Site Protection Project
PPE	-	Personal Protective Equipment
SCIESU under GKR	-	State Committee for Industry, Energy, and Subsoil Use under the Government of the Kyrgyz Republic

Table of Contents

Appendices:

List of Tables:

List of Figures:

1. INTRODUCTION.

1.1 Preamble.

1. This Report presents the Semi-Annual Environmental Monitoring Review for the CAREC Corridors 1 and 3 Connector Road Section 2B Epkin (Km: 89+500) - Dyikan (Bashkugandy) (Km: 159+200) Project.

2. This report is the 12th EMR for the project, covering the six months of project work conducted from July to December 2024.

1.2 Headline Information.

3. During the reporting period, activities included producing 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 in August 2024.

4. This Report contains information on the status of activities related to preventing adverse environmental impacts. The observations, corrective actions, and mitigation measures presented in this report are based on a monthly visit inspection conducted by the consultant's specialists on the project road and living and production facilities for the reporting period. Also, in October 2024, visual monitoring was carried out using Environmental Checklists for each Project facility: road site, Asphalt plant (km 148+630), Crushing and screening plants (km 106+300 and km 148+630), quarries, construction camps and workshops (km 106+300 and km 148+630).

5. All observed non-compliances are listed in section 3.3. (Issues Tracking); the inspection reports and Environmental Checklists with findings communicated to the Contractor to undertake corrective actions are presented in Appendices 1 and 2.

6. During the reporting period, positive trends were observed in addressing non-compliance, indicating significant improvement in the Contractor's environmental protection and safety performance. The Corrective Action Plan was fully implemented by the Contractor within the first month after its receipt.

7. Instrumental environmental quality monitoring was conducted in August 2024. The protocols are presented in Appendix 3. There is a tendency to improve the state of the environment in the area of the Project location, this is due to a decrease in the volume of earthworks, which significantly reduces the pollution of atmospheric air and water bodies by suspended substances. In addition, the noise load along the road has also significantly decreased.

8. The Contractor's environmental management system was strengthened, including:

- Updating the Contractor’s SSEMP ((information about the second construction camp and the crushing and screening plant at km 106+300 was added, as well as the Contractor's Tree Compensation Planting Plan and Emergency Response Plan);
- Preparing a Training Plan for CR No. 5 workers on safety and occupational hygiene for the second half of 2024;
- Personnel responsible for eliminating oil leaks in two camps and production bases of the project have been appointed;
- Ensuring the daily presence of the Contractor’s environmental and health & safety officers on-site.

9. These measures contributed to timely risk response, rapid corrective action, and effective communication with the Engineer. However, some violations remain systematic as they relate to daily project activities, such as neglecting the use of PPE or its components, safety violations (e.g., parking fuel trucks in unauthorized areas, leaving gas cylinders under direct sunlight during summer), and incomplete fire shields (ensuring that workers return items to the fire shields).

10. According to the Training Plan for CR No. 5 workers on safety and occupational hygiene, four training sessions were conducted during the reporting period:

- 08/08/2024: Working conditions. Hazardous and harmful production factors specific to the project. Key requirements for injury prevention, personal protective equipment (PPE), and procedures for PPE use;

- 09/09/2024: General rules of conduct for workers on the project site. Key requirements for occupational sanitation and personal hygiene;

- 10/10/2024: Circumstances and causes of specific characteristic accidents, acute poisonings, incidents, and fires at similar facilities due to safety and labor protection requirements violations. Procedures for workers in the event of an accident or acute poisoning at work;

- 12/11/2024: Fire, industrial, and transport safety. Methods and means of preventing fires, explosions, accidents, incidents, and workers' actions in case of such events. First aid for the injured and subsequent actions during accidents.

11. To address recurring non-compliances identified during environmental monitoring, additional explanations are provided to the Contractor's personnel about the importance of adhering to environmental and safety requirements. Specifically, the CSC participates in the Contractor's personnel training and strives to thoroughly analyze the causes and consequences of each identified non-compliance to develop recommendations.

12. Based on the results of the inspections and the prepared Post-Construction Environmental checklist, CSC prepared the Post-Construction Environmental Audit Report (Appendix 4).

13. The Contractor must understand and consistently comply with environmental protection requirements. Preventive control measures must be applied to prevent non-compliance before it occurs. Therefore, the Contractor is strongly advised to pay greater attention to environmental performance on an ongoing basis.

2. PROJECT DESCRIPTION AND CURRENT ACTIVITIES.

2.1 Project Description.

2.1.1 Project Section Location and Basic Design.

14. 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 (Bashkugandy) (Km: 159+200) Project.

15. The CAREC Corridors 1 and 3 (Epkin Road Section (km 89 + 500) - Dyikan (Bashkugandy) (km 159 + 200) Project aims to improve transport communication and market access in the Kyrgyz Republic. The Project will result in efficient freight and passenger traffic movement 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.

16. 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 residents.
- Creation of new jobs.
- Good condition of vehicles /Reduced operating costs

17. 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 town, Osh. Joining 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.

18. In connection with 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 contract work commenced on January 15, 2022.

19. The project road Epkin (89 + 500 km) - Dyikan (Bashkugandy) (159 + 200 km) is a 70-kilometer highway from east to west. This section follows the existing road to Bashkugandy (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 Figures 1 and 2. Nearby villages located along the road section are listed in Table 1.

20. 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 Bashkugandy 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 agricultural land 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.

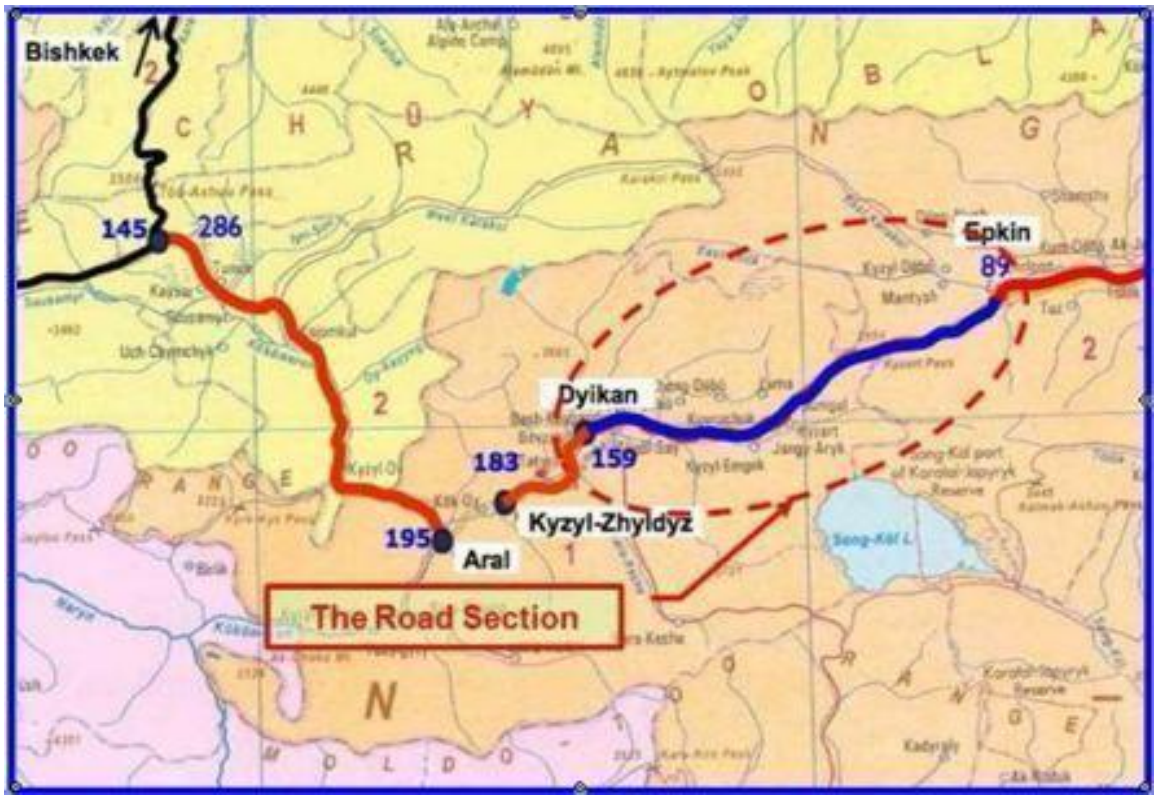


Figure 1: Map of Epkin-Dyikan (Bashkugandy) Location.

Figure 2: Topographic map of the area where the road section Epkin-Dyikan (Bashkuugandy) is located.

Table 1 Names of Villages along the Project Road Section.

Region	District	Village	Section/km
Naryn	Kochkor (western part)	Epkin	89+500
	Jumgal	Jumgal	127+240 – 129+500
		Kuiruchuk	141+750 – 144+800
		Tugol-Sai	149+500 – 151+100
		Bashkugandy	159+000

21. 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.

22. 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.

23. 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 plants, the construction of a camps for workers and storage areas, etc.

24. 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.

25. Details of the designed project road section:

- To restore and lay the project road to Technical Category II from Epkin (km 89+500) to Bashkugandy (km 159+200) 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.

26. The road was designed in accordance with the Kyrgyz geometric design standard for Category II, and, as such must be sufficient to effectively withstand transport loads throughout 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

27. 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 (Epkin-Bashkugandy) 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.

28. 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.

29. 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.

30. 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 m^3;
- Binder with 9 cm thickness – 62 225 m^3;
- Wearing layer with 6 cm thickness – 41 738 m^3;
- Base, with 20 cm thickness – 148 771 m^3;
- Lower shoulder with 20 cm thickness – 70 648 m^3;
- Upper shoulder with 15 cm thickness – 61 301 m^3
- Subbase with 25 cm thickness – 361 612 m^3

Table 2. Project Details.

From	To	Total Road Length (69.7 Km)	
Km 89+500	**Km 159+200**	**Type of work**	**Volume**
Excavation to dump	406 818 m^3	Unsuitable material from cuts	269 291 m^3
		Rock material from cuts	136 860 m^3
		Unsuitable demolition material	667 m^3
Embankment	533 250 m^3	Common material from cuts	174 697 m^3
		Rock embankment from cuts	9 100 m^3
		Common material from the quarry	186 663 m^3
		Subgrade material from borrow	157 290 m^3
		Standard material for road signs and backfill	5 500 m^3
Subbase C grade, 0/40 fraction	364 667 m^3	Thickness on main road = 25 cm	361 612 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

From	To		Total Road Length (69.7 Km)			
Km 89+500	**Km 159+200**		**Type of work**		**Volume**	
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	103 963 m^3		Binder Thickness = 9 cm		62 225 m^3	
			Wearing layer Thickness = 6cm		41 738 m^3	
Drainage	Open drain		Closed PVC drain		Closed drain, non-PVC	
	Excavation for 20 258 m^3		1 363 m		3 000 m	
Sulphate-resistant culverts, B30	D = 1.0 m	D = 1.5 m	D = 2.0x1.5 m	D=2.0x2.0 m	D=3.0x2.5 m	D=2x3.0x2.5 m
	1 130 m	898 m	25 m	27 m	10 m	11 m
Reinforcement	42.91 t		Bridge		28.87 m	

2.2 Project Contracts and Management.

31. Figure 3 shows a scheme of project activities' organizational structure and management. Table 3 lists representatives of the main organizations involved in the project and related to environmental protection. A list of the representatives currently involved in the organization and implementation of the project work has been updated and shown in Tables 4 and 5.

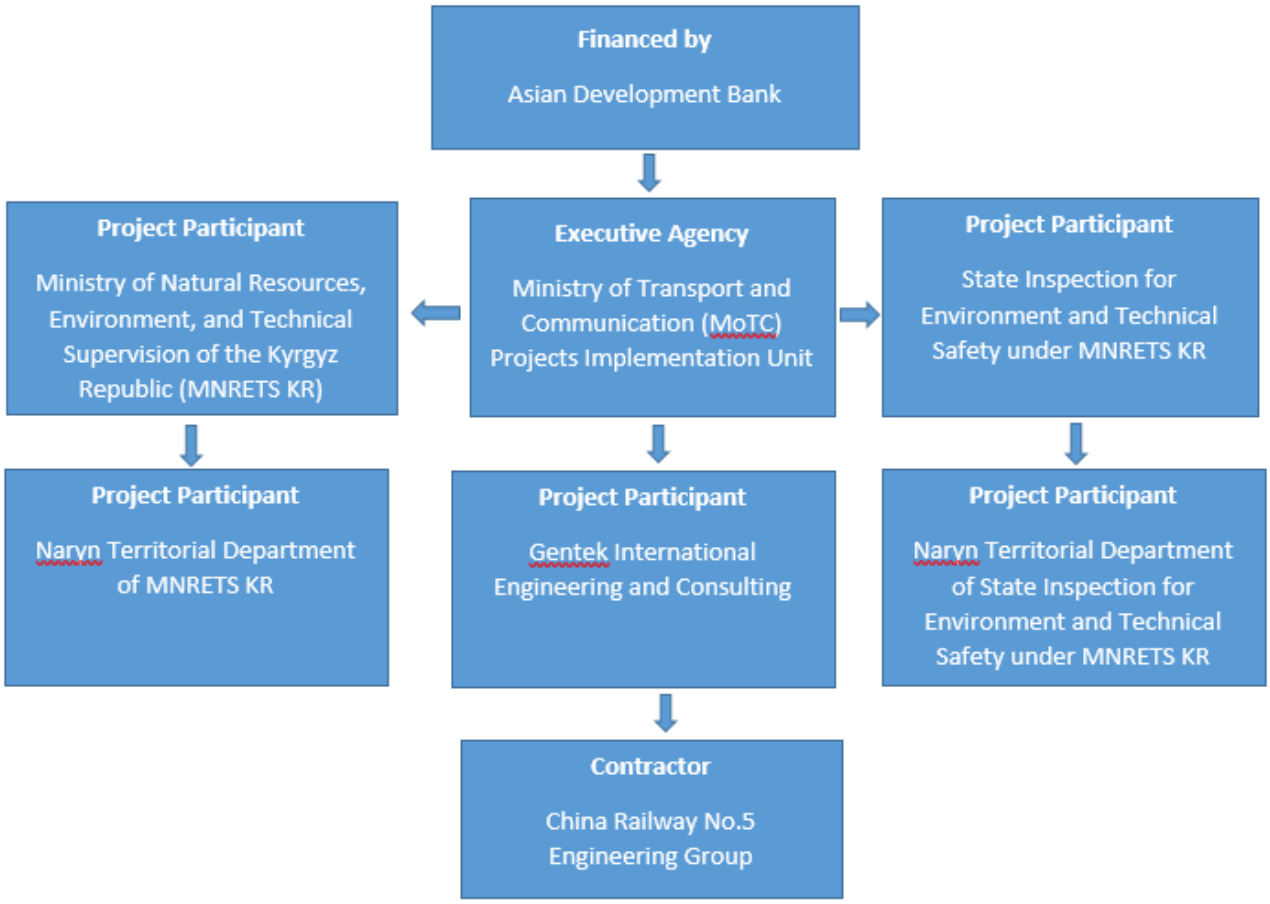


Figure 3: Project Organizational Structure and Management.

Table 3: Main organizations involved in the project.

№	Name of company	Activities in the project	Responsible persons for environmental protection	Contact details
1	ADB	Country Environmental Focal	Mr. Lizandro Racoma	lracoma@adb.org
2	ADB	Environmental Specialist (Consultant)	Sultan Bakirov	sbakirov.consultant@adb.org
3	PIU MOTC KR	Environmental Officer	Asylbek Abdygulov	asylbeka@piuMOTC.kg
4	Gentek Consulting Company	International Environmental Specialist	Olga Syzonenko	olga.syzonenko82@gmail.com
5	Gentek Consulting Company	National Environmental Specialist	Talantbek Jumaliev	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.

International Employees	
Senior Highway Engineer / Team Leader	Selcuk Mutlu
Pavement and Materials Engineer	Mehmet Tokgoz
Structural Engineer	Sabir Mehrabov
Road Safety Engineer	Ercan Duymaz
Social Development and Resettlement Specialist	Saim Tuzlu
Contract Specialist	Rufat Mammadov
Environmental Specialist	Olga Syzonenko
Quality Assurance Engineer	Alvan Jamalov
National Employees	
Highway Engineer/Deputy Team Leader	Omurbek Shekeev
Pavement and Materials Engineer	Alymkulov Ulanbek
Structural Engineer	Nasyr Moldogaziev
Quality Assurance Engineer	Taalaibek Abdyrazakov
Quantity Engineer	Joodar Alymkulov
Road Safety Engineer	Suiunbek Tokobaev
Social and Resettlement Specialist	Omorbekov Azamat
Environmental Specialist	Talantbek Jumaliev
Hydrological Drainage Specialist	Talantbek Ashymbekov

Table 5: List of Key Contractor's Employees.

№	Position	Professional qualifications	Personnel
	International Employees		
1	Project Manager	Road and Bridge Engineering	Chen TieLian
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
	Local Employees		
13	Environmental Specialist	Ecology and Nature Management	Nurlan Nurdinov
14	HSE Engineer	Engineering	Bulanbek DJumaliev
15	Social Development and Public Relations Specialist	Road Engineering	Maksat Kamchybekov
16	Archaeologist	History & Archaeology	Orozbek Soltobaev
17	Traffic safety engineer	Engineering	Abylabekov Kozhomkul

32. Table 6 below shows the details of the contract of the contracting company responsible for the road construction work.

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+500 km - 159+200 km, total length 69.7 km
Donor:	Asian Development Bank.
Contract signing date:	23.09.2021
Executive Agency	Ministry of Transport and Communications of the Kyrgyz Republic (MoTC KR)
Commencement Notification	15.01.2022
Planned completion date	30.07.2024
Completion period - days	2,5 years (30 months) or (900 days)
Time Extension - days	1050 days (30.11.2024)
Warranty period - days	3 years
Contract Amount	US$ 42 662 423.84
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 an unconditional bank guarantee 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 Management.

33. Relevant institutions working with the project include:

- Ministry of Finance of the Kyrgyz Republic (MOF),
- Ministry of Transport and Communication of the Kyrgyz Republic (MOTC)
- Project Implementation 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 (DDPSSES).

34. MOTC is responsible for developing the transport sector and is the project's Execution Agency (EA). It has overall responsibility for planning, design, implementation, and monitoring. PIU works under MOTC and performs tasks assigned by MOTC.

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

36. 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.

37. 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.

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

2.3 Project Activities during the Current Reporting Period.

2.3.1 Road Construction Works.

39. 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 (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);
- Provision and installation of prefabricated reinforced concrete side drains;
- Provision and installation of new reinforced concrete parapets on sand;
- Provision and install prefabricated concrete box;
- Protection coating, sealing, and jointing of precast concrete pipe and box culverts;
- Backfilling of concrete pipe and box culvert with material from borrow;
- Construction of subbase and base layers;
- Construction of binder course layer;
- Provide, place, and compact coarse-graded asphalt concrete;
- Provide, place, and compact Stone Mastic Asphalt (SMA-20);
- Provision and installation of metal fastening for curb blocks and railings
- Construction of street lighting, road signs, toilets;
- Construction of road shoulders and metal guardrailing.

40. Table 7. provides information on the quantity and percentage of work completed at the site from 01.07.2024 to 31.12.2024. The work was mainly carried out at the following sections of the construction road:

1) km 89+500 – km 95+000
2) km 106+000 – km 122+000
3) km 133+000 – km 136+000
4) km 137+200 – km 142+000
5) km 144+100 – km 148+700
6) km 150+400 – km 159+200

Figure 4: Map of road sections with active construction work, July-December 2024.

Table 7: Quantities of main work performed for 01.07.2024 - 31.12.2024.

No.	Description	Unit	Total qnty	Qnty Completed	% Of completed	Completed Length (km/total length)	Remaining qnty	% of remaining
01	Archaeological work	no.	81	81	100%		0	0%
02	Embankment	m3	374,000	325,130	87%		48,870	13%
03	Cut excavation	m3	338,000	227,887	67%		110,113	33%
04	Subgrade	m3	296,000	184,300	62%		111,700	38%
05	Subbase	m3	292,000	255,000	87%		37,000	13%
06	Base	m3	150,000	150,000	100%	69.7/69.7=100%	0	0%
07	Binder coarse	m3	62,000	66,400	100%	69.7/69.7=100%	0	0%
08	Wearing coarse	m3	41,300	32,000	77%	54/69.7=77%	9,300	23%
09	Shoulders	m3	133,000	22,500	17%		110,700	83%
10	Culvert (at the main road)	psc.	119	119	100%		0	0%

41. Below are the photo materials of the work being carried out.

Figure 5: Shoulder slope brushing, km 137+260- km 137+100 RHS.

Figure 6: Wearing course, km 113+720 - km113+160 LHS.

Figure 7: River channel relocation, km 96+000 – km 97+242, LHS.

Figure 8: Construction of public toilets, km 111+320, RHS.

Figure 9: Road marking, km 142+000 – km 143+000.

Figure 10: Installation of waveform guardrail, km 113+300 – km 113+512, LHS.

Figure 11: Tack coat, km 102+180 – km 101+120 LHS.

Figure 12: P6 ditch cover plate foundation pouring, km 142+000 RHS.

Figure 13: Winter road maintenance, km 100+000 – km 119+000 R&L.

42. Table 8 shows the statistics on the main construction work planned and performed according to the schedule.

Table 8: Planned & actual main work item quantities.

Work Item	BOQ Quantity	Planned Quantity	Actual Quantity	Planned %	Actual %	Variance %	Planned Completion Date
Drainage							
Culverts (m)	1 688.27	1 688.27	1 734	100%	100%	2.71%	01.08.2023
Open Drain (m3)	20 258.00	2 450	2 450	12.09%	12.09%	0%	01.05.2024
Subsurface Drain (m)	4 363.00	3 683	3 683	84.41%	84.41%	0%	
Retaining Walls							
Concrete Walls (m3)	232.00	43.43	43.43	18.72%	18.72%	0%	
Earthworks							
Clear & Grub (ha)	40.97	12.91	12.91	31.52%	31.52%	0%	31.07.2023
Cut Excavation (m3)	338 226.09	232 913.00	232 913.00	68.86%	68.86%	0%	31.08.2023
Embankment (m3)	374 076.35	340 425.55	340 425.55	91.00%	91.00%	0%	31.08.2023
Subgrade (m3)	295 707.34	198 752.23	198 752.23	69.56%	69.56%	0%	13.10.2023
Pavement							
Sub base (m3)	292 447.30	240 534.98	240 534.98	82.25%	82.25%	0%	13.10.2023
Base (m3)	149 681.00	160 322.60	160 322.60	107.11%	107.11%	0%	26.10.2023
Low. Shoulder (m3)	71 063.00	58 829.59	58 829.59	82.79%	82.00%	0.79%	06.11.2023
Up. Shoulder (m3)	62 131.00	25 189.56	24 829.56	40.54%	39.96%	0.58%	10.05.2024
Shoulder Total (m3)	133 194.00	84 019.14	83 099,14	63.08%	62.39%	0.69%	20.06.2024
Binder (m3)	61 965.00	63 113.37	62 983.37	101.85%	101.64%	0.21%	20.06.2024
Wearing (m3)	41 738.00	22 540.21	22 420.21	54.00%	53.72%	0.29%	29.04.2024
Asphalt Total (m3)	103 963.00	85 653.58	85 403.58	82.39%	82.15%	0.24%	31.05.2024
Bridge 1 over the Tugol-Sai River							
Foundation (%)				100%	100%	0%	03.07.2024
Substructure (%)				100%	100%	0%	31.07.2024
Superstructure (%)				100%	100%	0%	31.07.2024

43. The Contractor has completed the project's main works and provided a Work Programme for the Remaining Works, as presented in the table below.

Table 9: Contractor's Programme for Remaining Works.

№	Work Description	Period	Start	End
1	Planting of trees	67 days	01/04/2025	07/06/2025
2	Derivation excavation on the riverbed	14 days	01/06/2025	15/06/2025
3	Subgrade layer on ramps	192 days	14/11/2024	25/05/2025
4	Earth channels (Excavation for open drains, common material)	59 days	01/06/2025	30/07/2025
5	Earth channels (Excavation for open drains in rock)	59 days	01/06/2025	30/07/2025
6	Subsurface drainage with perforated PVC pipes	101 days	07/04/2025	17/07/2025
7	Subsurface drainage without perforated PVC pipes	80 days	26/06/2025	17/07/2025
8	Culverts on ramps	14 days	01/05/2025	15/05/2025
9	Protection works on culverts (Rip-rap for slope and bed protection)	59 days	01/06/2025	30/07/2025
10	Protection works on culverts (cast in-situ monolithic cement mortar matting)	59 days	01/06/2025	30/07/2025
11	Concrete curbs (БР 100.20.8/М) on sidewalk	80 days	31/03/2025	19/06/2025
12	Rubble concrete retaining walls	83 days	27/06/2025	18/09/2025
13	Subbase layer on ramps	194 days	14/11/2024	27/05/2025
14	Upper shoulder on main road	196 days	14/11/2024	29/05/2025
15	Base layer for ramps	204 days	14/11/2024	06/06/2025
16	Binder layer on ramps	206 days	14/11/2024	12/06/2025
17	Wearing layer on sidewalks and bus stops	38 days	19/05/2025	26/06/2025
18	Concrete signal posts (road edge markers)	41 days	02/04/2025	13/05/2025
19	Pedestrian steel barriers	42 days	22/05/2025	03/07/2025
20	Road signs	30 days	14/11/2024	14/12/2024
21	Road marking	57 days	16/04/2025	12/06/2025
22	Concrete parapets	208 days	14/11/2024	10/06/2025
23	Metal guardrailing (barriers)	196 days	14/11/2024	29/05/2025
24	Streeting lighting (lighting installation)	27 days	14/11/2024	11/12/2024
25	Stella at km 112+000	14 days	01/07/2025	15/07/2025
26	Concrete canals for drainage	76 days	15/06/2025	30/08/2025

№	Work Description	Period	Start	End
27	Connection concrete between asphalt edge and concrete parapet	60 days	01/05/2025	30/06/2025
28	Toilet construction	10 days	14/11/2024	27/12/2024
29	Solar panel-powered LED flashing yellow lights (300 mm diameter)	27 days	02/04/2025	29/04/2025
30	Traffic signal lamps	27 days	02/04/2025	29/04/2025
31	Metalic snow fence	80 days	31/03/2025	19/06/2025
32	Bus stops (2x(6.25 m x 2.55 m))	20 days	15/05/2025	04/06/2025
33	Bus stops (6.25 m x 2.55 m)	20 days	15/05/2025	04/06/2025
34	Defective pavement removal and re-construction (km 139+380 – km 139+500 LHS – bitumen accumulation and deformation, length – 120 m, width – 4.5 m	29 days	01/08/2025	30/08/2025
35	Defective pavement removal and re-construction (km 128+680 LHS, drawdown, length – 4 m, width – 2 mm, h – 10-12 mm at Jumgal village)	29 days	01/08/2025	30/08/2025
36	Construction of an earth channel (km 119+920 – km 120+080 provide an earth ditch 160 m in length) and reinforced concrete tray LP (km 120+207.5 – km 120+360 LHS 152.5 m in length), strengthening the existing irrigation channel with concrete between km 120+900 – km 121+140	29 days	01/06/2025	30/06/2025
37	Casting on-site a reinforced concrete channel to protect the roadbed from excess irrigation water of irrigated fields (km 122+432 – km 123+379 LHS)	29 days	01/06/2025	30/06/2025
38	Slope cutting, cleaning and profiling the construction site along the road	227 days	14/11/2024	29/06/2025
39	Renovation of Borrow pits and dismantling of service roads	289 days	14/11/2024	30/08/2025

44. Below are the most significant challenges encountered by the Contractor during the period from 01.07.2024 to 31.12.2024:

45. **Changes in the Tax Code:** the change in sales tax legislation has caused the Contractor to suffer great extra losses and has seriously affected the Contractor's payment plan to relevant material suppliers, resulting in occasional delays in the supply of materials.

46. **Shortage of bitumen, mineral filler and crushed stones:** Shortage of bitumen and mineral powder and crushed stones: delays in asphalt production were observed due to the depletion of aggregate stocks on the previous day.

47. **Diversion of Asphalt to Other Projects:** The Contractor redirected some batches of produced asphalt to another project site in Kochkor. This diversion of resources is in direct conflict with the project's current needs.

48. **Insufficient Transportation Resources:** The Contractor has only deployed 11 trucks to transport asphalt to our site, which is insufficient given that the total available fleet consists of 15 trucks. The allocation of 4 trucks to another project has further exacerbated this shortage.

49. However, the Contractor managed to lay the asphalt within the agreed time frame, for which the following measures were taken:

- The Contractor's crushing plant at km148+640 has started working two shifts day and night, and the other one at km106 has also started the production of crushed stones for asphalt since the afternoon of August 27, 2024, ensuring the supply of crushed stone material;

- Regarding the issue of bitumen and mineral filler the Contractor has arranged a dedicated person to monitor and follow up daily, making every effort to ensure sufficient material supply; Also, the Contractor has taken measures to transport bitumen by increasing dump trucks to ensure the supply of bitumen;

50. High dust formations due to dry weather heavily impact air quality and increase traffic risks. Therefore, dust suppression is carried out to mitigate impact and risks in the areas where construction works are being carried out and on the roads near the settlements along the project site. The plan is attached in Appendix 5.

51. Considering that the base course and the prime coat of the road pavement are laid 100%, dust suppression is only required on sections of the road where earthworks are still being carried out (formation of shoulders and slopes). In this regard, the number of water tank trucks was reduced twice compared to the previous year.

52. To suppress dust in summer, 4 water tankers were deployed, and in autumn and winter, 3 tankers were deployed daily from 7:30 a.m. to 7:00 p.m.

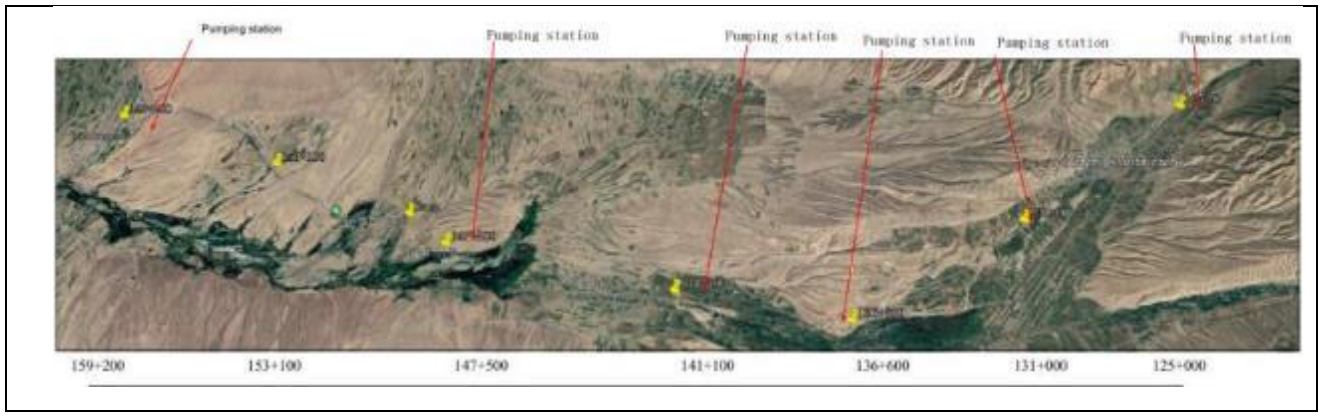


Figure 14: Water intake points for dust suppression along a project road.

53. The water used for dust suppression is taken from the points of Chalai river, Zhumgal river, Kyzart river, and Kara suu in the vicinity of the Uzun-Bulak and Ak-Uchuk villages, Kyzart Pass and Construction sites. The contractor's dust suppression of the project site was sufficient.

Figure 15: Dust suppression km 89+500 – km 159+200 (L&R).

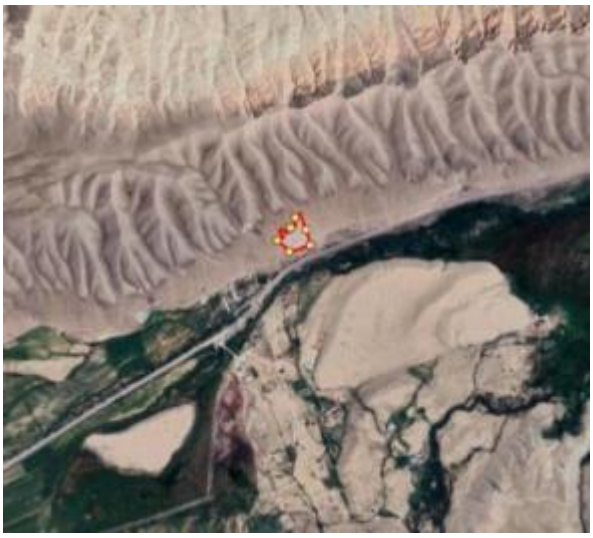
2.3.2 Quarries.

54. On the project road (Epkin-Dyikan section, km 89-159), 15 sites were allocated for quarries. The Contractor received all the necessary permits/approval from local authorities (Permission from local authorities to use the allocated plot of land) and the MNRETS KR (permit - selection of a site by ecologists, Temporary permit for quarrying). The MOTC KR received an entrusted permit for all quarry sites from the SCIESU under GKR. The main characteristics of the quarries are shown in Table 10.

55. During the reporting period, the Contractor didn`t receive new authorized permits for the expansion of quarries.

56. Because an error was identified in the Permit for the expansion of quarry № 7 at km 110+900, the Contractor re-submitted documents for the expansion of quarry № 7 at km 110+900 by 1.14 hectares (namely Cholpon village government's Letter Ref.: 02-1-34/1495 dated 20.09.2023; Letter Ref.: 01-1/1018 dated 26.09.2023 from MNRETS; Cholpon village government's Letter Ref.: 02-1-34/1302 dated 16.08.23; Letter Ref.: 01-1/918 dated 29.08.23 from MNRETS) to the PIU of the MoTC KR. The MOTC KR still needs to receive an entrusted permit for this quarry site from the MNRETS.

57. The quarries' areas are in suitable condition. During the reporting period, 6 quarries were operated: at km 148+630 (located in the Tugol-Sai village area), at km 112+870 (the Semiz-Bel village area), at km 119+300 (the Jumgal village area), at km 110+900 (the Cholpon village area), at km 106+420 (the Cholpon village area), and km 91+680 (the Cholpon village area). GIS locations of the quarries' areas are shown below.



Quarry № 1 (km 91+680).

Quarry № 6 (km 106+420).

Quarry № 7 (km 110+900).

Quarry № 8 (km 112+870).

Quarry № 13 (km 119+300).

Quarry № 12 (km 148+630).

Figure 16: GIS locations of the quarries' areas.

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

Table 10: Characteristics of Quarries.

№	Km	LHS\RHS	№ Разрешения	Location of quarries	Area (ha)	Production volume, (m^3)	Note
1.	**91+680**	RHS-71 m	№ 04-9/12238 dated 03.10.19	Cholpon v.	11.2	100 000	Being developed
2.	92+630	RHS-525 m	№ 04-9/12238 dated 03.10.19	Cholpon v.	15.6	200 000	Not being developed
3.	94+080	RHS-39 m	№ 04-9/12238 dated 03.10.19	Cholpon v.	1.04	60 000	Not being developed
4.	100+790	RHS-54 m	№ 04-9/12238 dated 03.10.19	Cholpon v.	1.8	150 000	Not being developed

№	Km	LHS\RHS	№ Разрешения	Location of quarries	Area (ha)	Production volume, (m^3)	Note
5.	106+350	LHS-78 m	№ 04-9/12238 dated 03.10.19	Cholpon v.	2.5	80 000	Not being developed
6.	**106+420**	RHS-250 m	№ 04-9/12238 dated 03.10.19	Cholpon v.	3.3	150 000	Being developed
			№ 05-5/323 dated 23.01.24г		0.61	91 500	
7.	**110+900**	RHS-94 m	№ 04-9/12238 dated 03.10.19	Cholpon v.	2.1	100 000	Being developed
			№ 05-5/323 dated 23.01.24		5.3	106 000	
8.	**112+870**	RHS-27 m	№ 03-6/6540 dated 20.07.20	Semiz-Bel v.	5.8	56 000	Being developed
9.	133+000	RHS-320 m	№ 04-04/10138 dated 02.08.18	Jany-Aryk v.	0.93	150 000	Not being developed
10	135+280	LHS-25 m	№ 04-04/10138 dated 02.08.18 № 03-6/2323 dated 04.03.20	Jany-Aryk v.	7.2	200 000	Not being developed
11	140+990	LHS-212 m	№ 04-04/10138 dated 02.08.18	Kuiruchuk v.	6.5	97 164.92	Not being developed
12	**148+630**	RHS-1800 m	№ 04-04/10138 dated 02.08.18	Tugol-Sai v.	18360	80 0534.9	Being developed
			№ - 01-6/1721 dated 25.03.23		7.5	139 718.24	
13	**119+300**	RHS-542 m	№ - 01-6/1721 dated 25.03.23	Jumgal v.	9.632	770 568.9	Being developed
14	104+158	RHS-274 m	№ 05-5/4548 dated 19.10.23	Cholpon v.	4.16	128 085.2	Not being developed
15	100+800	RHS – 400 m	№ 91 dated 06.04.2023г order Kochkor district administration 04.06.2023 act of zharandyk com.	Cholpon v.	9.6	98 142.0	Not being developed

59. The quarries used during the reporting period are highlighted in bold.

2.3.3 Storage Areas (Spoil Areas).

60. 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 are used on the road section. Table 11 lists the characteristics of the areas approved for dumping.

Table 11: Storage Areas.

№	Object location		Village area	Remarks
	Km	Distance from the road		
1	158+400	317 m RHS	Bash-Kuugandy	
2	158+540	108 m RHS	Bash-Kuugandy	

№	Object location		Village area	Remarks
	Km	Distance from the road		
3	158+550	5 m LHS	Bash-Kuugandy	
4	157+300	150 m LHS	Bash-Kuugandy	
5	155+800	320 m RHS	Bash-Kuugandy	
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	150+100	30 m RHS	Tugol-Sai	
13	149+200	20 m RHS	Tugol-Sai	
14	149+000	RHS	Tugol-Sai	Private land
15	148+200	35 m RHS	Tugol-Sai	
16	147+540	LHS	Kuiruchuk	
17	143+610	421 m – 694 m RHS	Kuiruchuk	
18	140+990	122 m LHS	Kuiruchuk	
19	138+600	45 m LHS	Kuiruchuk	
20	136+940	435 m RHS	Dzhany-Aryk	
21	132+860	315 m RHS	Dzhany-Aryk	
22	130+840	31 m RHS	Dzhany-Aryk	
23	121+620	49 m LHS	Dzhany-Aryk	
24	120+310	37 m LHS	Dzhany-Aryk	
25	117+520	78 m LHS	Dzhany-Aryk	
26	113+970	50 m LHS	Cholpon	
27	110+660	85 m RHS	Cholpon	
28	100+940	91 m LHS	Cholpon	
29	106+720	55 m LHS	Cholpon	
30	106+540	49 m RHS	Cholpon	
31	93+980	66 m RHS	Cholpon	

№	Object location		Village area	Remarks
	Km	Distance from the road		
32	91+360	45 m RHS	Cholpon	
33	98+190	21 m LHS	Cholpon	
34	103+060	16 m RHS	Cholpon	
35	112+600	45 m LHS	Semiz-Bel	
36	113+970	33 m LHS	Semiz-Bel	
37	115+850	60 m LHS	Semiz-Bel	

61. In the reporting period of the project implementation, the following storage areas were used:

1) Km 93+980: 66 m on the right side,
2) km112+600: 45 m on the left side,
3) km120+310: 37 m on the left side,
4) km121+620: 49 m on the left side.

62. The Contractor has concluded/received agreements with the owners of these land plots for the use and disposal of unsuitable material. In the future, these land plots will be suitable for commercial use.

2.3.4 Production Sites Territory.

63. At the moment, the Contractor has two production sites. The first is located at km 148+630 on the Kuiruchuk Aiyl Okmotu territory, near the Tugol-Sai village. The second is located at km 106+300 on the territory of Cholpon Aiyl Okmotu.

64. Permits for the use of the territory of the first production site (km 148+630) with an area of 6.9 hectares were received in 2021 from the Kuiruchuk Aiyl Okmotu and are presented in Appendix 6 of this report (letter № 01-1/434, conclusion № 6). The Contractor has obtained the necessary permits from the Kuiruchuk Aiyl Okmotu and the Naryn Territorial Department of the MNRETS KR

65. The following buildings and structures are located on the first production site (km 148+630): the asphalt plant, the crushing and screening plant (Crusher), the storage area for bulk materials - crushed stone and sand, the concrete unit, the bitumen pit, the hangar for fuels and lubricants storage, the transformer substation, the checkpoint, the platform for garbage containers, outdoor toilets, a sump, a dormitory for the asphalt plant workers, and the crushing and screening plant.

66. The bitumen pit is equipped with a reinforced concrete liner and a floor to prevent the infiltration of petroleum products into the soil.

67. Permits for the use of the territory of the second production site (km 106+300) with an area of 1.57 hectares were received in 2023 from the Cholpon Aiyl Okmotu and are presented in Appendix 7 of this report (letter 02-1-34/559, schematic plan). The Contractor has obtained the necessary permits from the Cholpon Ata Aiyl Okmotu and the Issyk-Kul-Naryn Territorial Department of the MNRETS KR.

68. The following buildings and structures are located on the second production site (km 106+300): the crushing and screening plant (Crusher), the storage area for bulk materials -

crushed stone and sand, the hangar for fuels and lubricants storage, the transformer substation, the platform for garbage containers, outdoor toilets.

69. Both the first production site (km 148+639) and the second (km 106+300) are located following the requirements of Appendix xiii of SSEMP 'Material Processing Plants/Equipment and Storage Facilities.' Following SSEMP requirements, these objects are located at least 500 m from nearby houses and, to avoid potential contamination, at least 50 m from water sources.

Figure 17: Asphalt plant at the production site (km 148+630).

Figure 18: Camp site (km 148+630).

Figure 19 Crusher at the production site (km 148+630).

Figure 20: Bitumen pit at the production site (km 148+630).

Figure 21: Crusher at the production site (km 106+300).

2.3.5 Camps.

70. Currently, the Contractor has 2 worker camps located at km 148+630 and at km 106+300.

71. The first camp for the Contractor's workers is located at km 148+630 on the municipal territory of the Kuiruchuk Ayil Okmotu. Permits to operate the territory as a camp were obtained from the Kuiruchuk Ayil Okmotu (see Appendix 6).

72. The territory of the Contractor's camp has been built up entirely. The camp is located on 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, a parking lot for cars and trucks, a line maintenance hangar, security room, transformer, temporary garbage bins, a decantation tank, and toilet and shower.

73. The total number of employees living in the camp is 25.

74. The contractor has established a second construction camp and production site at km 106+300 of the project road, with an area of 1.924 hectares. The Contractor received permits from the Cholpon Aiyl Okmotu (see Appendix 7).

75. On the territory of the second camp (km 106+300), there are a warehouse and repair area, offices, a kitchen, a dining room, a dormitory for the Contractor's workers, a Contractor's office, a security room, a parking lot, a generator, a water tank, temporary garbage cans, a septic tank, toilet, and showers.

76. The total number of employees living in the camp is 55.

77. Drinking water for both the first and second camps is supplied in 18-liter bottles from the Balykchy city by the «Shoro» Company.

78. In both the first and second camps, sewage is collected in stationary septic tanks. As the septic tank is filled, the sewage is removed by the Chaek Municipal Enterprise and taken to the authorized wastewater treatment plant in Chaek Village for further treatment and disposal. Chaek Municipal Enterprise is the only specialized enterprise in the project area with an authorized wastewater treatment plant. Solid waste from the two camps is transported to the landfill in Tugol-Sai village on the basis of the agreement. The landfill of Tugol-Sai village is in use; the village government approved it with signed Order № 13b dated 18.04.22).

Figure 22: GIS location of the new construction camp and production area at km 106+300.

Figure 23: The territory of the second construction camp (km 106+300) – general view.

Figure 24: The territory of the second construction camp (km 106+300) – utility and living area.

Figure 25: The territory of the second construction camp (km 106+300) – parking area.

Figure 26: The territory of the second construction camp (km 106+300) – workshop.

2.4 Description of Any Changes to Project Design.

79. During the reporting period, clarifications were made to the tender documentation, presented below, to improve the social conditions of residents of the villages of Jumgal, Kuiruchuk, and Tugol-Sai.

80. In the village of Jumgal, access roads to houses have been provided at the following locations:

- km 128+890 RHS – (7 pcs. RC slab П-1);
- km 128+960 RHS – (7 pcs. RC slab П-1);
- km 129+010 RHS – (7 pcs. RC slab П-1);
- km 129+090 RHS – (7 pcs. RC slab П-1);
- km 129+100 RHS – (7 pcs. RC slab П-1);
- km 128+440 RHS – (6 pcs. RC slab П-1);
- km 129+450 LHS – (7 pcs. RC slab П-1);
- km 129+610 RHS – (8 pcs. RC slab П-1);
- km 127+310 LHS – (2 pcs. RC slab П-1);

Total: 9 locations (58 pcs. RC slabs П-1).

81. In the village of Kuiruchuk, access roads to houses have been provided at the following locations:

- km 141+330 LHS – (7 pcs. RC slab П-1);
- km 141+440 LHS – (7 pcs. RC slab П-1);2

Total: 2 locations (14 pcs. RC slabs П-1).

82. 160 meters of earth ditch will be added on the right side of km 119+920-km 120+080, a collecting well at km 120+080 RHS, 251 meters of ЛР-6 ditch on the right side of km 120+080 – km 120+178.5 and the left side of km 120+207.5-km 120+360.

83. The above changes to the tender documentation are insignificant and do not adversely impact the environment, which does not require the preparation of a Supplementary Initial Environmental Expertise or corresponding mitigation measures of SSEMP.

2.5 Description of Any Changes to Agreed Construction Methods.

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

3 ENVIRONMENTAL SAFEGUARD ACTIVITIES.

3.1 General Description of Environmental Safeguard Activities.

85. During the reporting period, the consultant's local environmental specialist monitored the project site. Inspections of the condition of the project road, quarry sites, spoil areas, sampling points for measurements, and the area of the production bases and the contractor's camps were conducted.

86. Based on the results of environmental monitoring and environmental checklists, the CSC has prepared a Corrective Action Plan that sets out the measures necessary for implementation to prevent the recurrence of violations and non-compliance (see Table 16).

87. During the reporting period, there were no problems with dust on the road and no complaints about dust from residents of settlements and road users.

88. Considering that the base course and the prime coat of the road pavement are laid 100%, dust suppression is only required on sections of the road where earthworks are still being carried out (formation of shoulders and slopes). In this regard, the number of water tank trucks was reduced twice compared to the previous year.

89. To suppress dust in summer, 4 water tankers were deployed, and in autumn and winter, 3 tankers were deployed daily from 7:30 a.m. to 7:00 p.m.

90. During the reporting period, no tree-cutting work was carried out. Tree-cutting work was completed entirely in the previous reporting periods.

91. During the implementation of the project "Corridors CAREC 1 and 3 Connection Routes (Section 2B 'Highway Epkin [km 89] - Bashkuugandy [km 159])" from 2018 to the end of 2023, 1103 trees were cut along the project road. Before the start of the tree felling, the Contractor had received all necessary permits from the Naryn Territorial Administration for ETS under MNRETS KR.

92. As compensatory measures, plantlets are envisaged to be planted at a ratio of 1:2, namely 2206 tree seedlings. In 2023, Aiyl-Okmotu agreed upon tree species and locations for planting trees.

93. In April 2024, the contractor entered into an agreement for the purchase of tree seedlings with the Naryn Forestry Agency and carried out tree planting work.

94. Below is Table 12 with the number and location of compensatory tree planting that was planted in April 2024. The contractor completed the tree planting based on the compensation calculation of 1:2. Moreover, the contractor planted an additional 90 trees in case some of the trees did not take root.(according to the calculation of the compensatory planting, the contractor must plant 2,206 trees).

Table 12: List of Tree Planting in Villages.

Location	Tree species				Quantity
	Poplar pyramidal	Pine tree	Larch	Tien Shan fir	
Tugol-Say village					
Cultural center	400	5	30	0	435
Park	140	0	0	15	155
Racetrack	60	0	0	0	60
Subtotal	**600**	**5**	**30**	**15**	**650**
Kuiruchuk village					
Cultural center	360	5	20	15	400
School	85	5	5	0	95
Subtotal	**445**	**10**	**25**	**15**	**495**
Kyzart village					
Cultural center	300	1	35	15	351
Subtotal	**300**	**1**	**35**	**15**	**351**
Jumgal village					
Park	750	15	20	15	800
Subtotal	**750**	**15**	**20**	**15**	**800**
Total	**2095**	**31**	**110**	**60**	**2296**

95. The Contractor's Environmental Specialist monitored compensatory tree plantings daily for the first three months after planting, followed by reducing inspections to once a week. The Consultant Environmental Specialist monitored the compensatory tree plantings as part of the environmental inspection twice a month.

96. On August 2, 2024, an on-site inspection was organized with a representative from the Naryn Forestry to ensure systematic oversight of tree survival rates, compliance with watering practices, and the prevention of seedling diseases.

97. The representative of the Naryn Forestry Department did not identify any diseases in the seedlings during the inspection and approved the watering intensity.

Figure 27: On-site inspection of compensatory tree plantings with the participation of a representative of the Naryn Forestry Department (02.08.2024).

98. During the on-site inspections/audits on October 28, 2024, low survival rates of deciduous trees (poplars) of unclear cause were identified. Many seedlings were mechanically damaged, or their stems were dry and broken by the wind.

99. As a result, it was decided to conduct a follow-up inspection with a representative from the Naryn Forestry Department in spring 2025 (late March) and to replace the non-surviving trees in April – June 2025 as outlined by the Contractor in the Contractor's Programme for Remaining Works.

Archaeological Objects of Historical and Cultural Heritage.

100. Archaeological research was fully completed in the second quarter of 2022.

101. The Contractor has submitted a detailed report describing all the findings identified on the historical and cultural heritage sites (HCHS) during this survey, which is available for reading through the ADB website.

102. To prevent any potential direct or indirect impact on historical and cultural heritage sites located along the construction areas of the project road, after the completion of excavation works, information boards were installed at 16 archaeological sites. These boards are in three languages (Kyrgyz, Russian, and English) and provide information about the monuments' type, name, chronological attribution, and protected zones. This fully complies with the requirements of the national legislation, specifically the Law of the Kyrgyz Republic "On the Protection and Use of Historical and Cultural Heritage" dated July 26, 1999, No. 91 (as amended on March 18, 2017, No. 47).

Figure 28: Information board of the Historical and Cultural Heritage Site (HCHS).

3.2 Site Audits.

103. Table 13 shows on-site inspections/audits carried out by the Consultant and Contractor's environmental specialists at the project site during the reporting period.

Table 13: Inspections/Audits of the project area.

№	Date of Visit	Auditor name	Purpose of Inspection/Audit	Summary of any Significant Findings
1	27-28.07.2024	Jumaliev T. Nurdinov N.	Visual inspection to ensure compliance with environmental requirements at construction sites, quarries, dumps, campgrounds, and production areas. The visit was conducted jointly with the Contractor's environmental specialist.	1. To equip fire extinguishing panels in the camp and production site at km 148+630, as well as at km 106+300; 2. To cover all gas cylinders to prevent explosion and fire; 3. Not to park fuel trucks near the kitchen at km 148+630 to prevent explosion and fire (there is a special parking lot for heavy vehicles on the camp territory); 4. To ensure the availability of information materials (posters) with contact information for all emergency services in Kyrgyz, Chinese and Russian on the territory of construction camps (km 106+300 and km

				148+630).
2	14-15.08.2024	Jumaliev T. Nurdinov N.	Visual inspection to ensure compliance with environmental requirements at construction sites, quarries, dumps, campgrounds, and production areas. The visit was conducted jointly with the Contractor's environmental specialist.	1. To park fuel trucks in the camp at km 148+ 630, where a special parking lot is provided for heavy-duty vehicles in order to avoid explosion and fire; 2. To complete fire extinguishing panels in the camp and production site at km 148+630, as well as at km 106+300; 3. To cover all gas cylinders from direct sunlight, in order to avoid explosion and fire in km 148+630, as well as in km 106+300; 4. On the territory of the camp at km 148+630, near the kitchen, the faucet in the shower for local workers is broken and the water is constantly flowing, as a result, a puddle has formed. The faucet needs to be repaired urgently; 5. To provide workers with PPE; 6. Maintain cleanliness in the camps.
3	27-28.08.2024	Jumaliev T. Nurdinov N.	Visual inspection to ensure compliance with environmental requirements at construction sites, quarries, dumps, campgrounds, and production areas. The visit was conducted jointly with the Contractor's environmental specialist.	1. Fire extinguishing panels are incomplete in the camp and production site at km 148+630, as well as at km 106+300; 2. To cover all gas cylinders from direct sunlight, in order to avoid explosion and fire in km 148+630, as well as in km 106+300; 3. The faucets in the men's toilet have still not been repaired in the camp at km 148+630, there is a basin of water nearby. 4. Not all workers are provided with special clothing; 5. Maintain cleanliness in the camps.
4	13-14.09.2024	Jumaliev T. Nurdinov N.	Visual inspection to ensure compliance with environmental requirements at construction sites, quarries, dumps, campgrounds, and production areas. The visit was conducted jointly with the Contractor's environmental specialist.	1. Fire extinguishing panels are incomplete in the camp and production site at km 148+630, as well as at km 106+300; 2. To cover all gas cylinders from direct sunlight, in order to avoid explosion and fire in km 148+630, as well as in km 106+300; 3. The faucets in the men's toilet have still not been repaired in the camp at km 148+630, there is a basin of water nearby. 4. Not all workers are provided with special clothing; 5. Maintain cleanliness in the camps.
5	28.09.2024	Jumaliev T. Nurdinov N.	Visual inspection to ensure compliance with environmental requirements at construction sites, quarries, dumps,	1. On the territory of camps at km106+300 and km148+630, wastewater storage tanks (septic tanks) are overflowing; they shall be removed by sewage trucks in accordance with the concluded service agreement.

			campgrounds, and production areas. The visit was conducted jointly with the Contractor's environmental specialist.	
6	28.10.2024	Syzonenko O. Jumaliev T. Nurdinov N.	Visual inspection to ensure compliance with environmental requirements at construction sites, quarries, dumps, campgrounds, and production areas. The visit was conducted jointly with the Contractor's environmental specialist.	Visual monitoring was carried out using Environmental Checklists. Based on these, a Corrective Action Plan for the first half of 2025 was prepared (Table 16).

104. Findings observed during the Consultant's audit were communicated to the contractor for corrective actions. 9 non-compliances were raised: 8 were corrected (closed), and 1 action remained open/ongoing.

105. Based on the results of the Environmental Checklists, the Engineer sent an official letter to the contractor.

106. A conversation was also held with the responsible personnel of the Contractor during the training about the low level of response to non-conformities. A discussion was held with the consultant's local environmental specialist about the need for enhanced control and monitoring.

107. The status of non-compliance and corrective actions is also shown in Table 14 and Figure 30.

108. Table 15 summarizes the findings observed during the formal audits conducted by the Consultant and Contractor's environmental specialists and the status at the end of December 2024.

ADB Mission.

109. In July and November 2024, ADB representatives visited the construction sites, worker camps, and the Contractor's production sites as part of the mission on the ongoing Project "CAREC Corridors 1 and 3 Connection Road Section 2B, Epkin—Bashkuugandy."

110. Following the visit to the project site, the Mission recommended that the PIU continue the positive trend of ensuring compliance with environmental safeguards, the implementation of the site-specific environmental management plan (SSEMP), and contract provisions on environment, health, and safety.

111. Below are photographs from the ADB mission.

Figure 29: ADB review mission at the project site, November 2024.

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

112. 9 findings were observed; 8 closed, and 1 remained open/ongoing. The table below provides a summary overview of Non-compliances and Corrective Actions.

Table 14: Overview of findings observed during July - December 2024.

№	Non-compliance identified	SSEMP Number and date of notification	Best Practice Guidelines Applicable	Particular issues and location	Contractor's actions (specify)	Results of Inspection	Status for December 2024
1	Environmental and Social Management System	SSEMP Gentek Ref.: June 28, 2024/671	Timely update of the SSEMP.	Update SSEMP to include the second camp and crushing and screening plant (km 106+300) and to add a Compensatory tree planting plan. Update the Contractor`s Emergency Response Plan as a part of SSEMP to enhance protocols for avoiding occupational health and safety risks. Maintain log books and records as per SSEMP. Ensure that the Contractor`s environmental and health and safety officers are consistently on-site, conducting daily toolbox talks for workers, especially those who operate heavy equipment.	09/07/2024, the Contractor provided the Engineer with an updated SSEMP, which includes the Contractor's Emergency Response Plan. Logs and records are maintained in accordance with the SSEMP. The Contractor's environmental, health, and safety staff were on-site at all times.	Contractor's Ref.# CR5-ED-709. Dated: 02.08.2024	The violations have been rectified.
2	Waste management	Appendix (ix) – Solid and Liquid Waste Management Plan	Waste separation. The availability of sealed containers for collecting hazardous waste, such	Maintain cleanliness in the camps at km 106+300 and km 148+630 and the	The Contractor has hired a full-time cleaner to clean and dispose of waste regularly.	Contractor's Ref.# CR5-ED-709. Dated: 02.08.2024	The violations have been rectified. These issues will

		Gentek Ref.: June 28, 2024/671 Gentek Ref.: August 19, 2024/718 Gentek Ref.: August 30, 2024/733 Gentek Ref.: September 16, 2024/770	as oiled rags and soil/sand contaminated with oil products. Keep records of waste collection and disposal.	quarries areas. There must be a sufficient number of waste containers on the Project site Containers must be marked. Ensure wastewater from the sink is discharged into a storage tank using a sewer system in the camp km 106+300. Organize the storage of bitumen and unusable machine parts under shelter or cover.	The Contractor has added garbage bins to the camps and arranged for workers to clean them every day. The Contractor regularly arranges workers to clean up the garbage in all areas of the camps, and the area pointed out in the Engineer's letter has also been cleaned up. The drainage problem in the laundry room of the Contractor's second camp has been rectified, and the sewage is no longer flowing out.	Contractor's Ref.# CR5-ED-735. Dated: 22.08.2024 Contractor's Ref.# CR5-ED- 766. Dated: 14.09.2024 Contractor's Ref.# CR5-ED- 772. Dated: 25.09.2024	be monitored during future audits.
3	Vehicle maintenance to minimize emissions and spills.	SSEMP, 6.4 EMP Appendix (xii) – Camp and Workshop Management Plan Gentek Ref.: June 28, 2024/671	established a daily equipment maintenance and guarantee system Prompt elimination of oil spills.	Regularly conduct technical maintenance of vehicles to minimize emissions to the atmosphere and spills on the ground. Due to systemic oil product spills, a responsible person must be appointed at each site and trained to clean up spills.	The contractor has established a system of daily equipment maintenance and guarantee and will continue to strengthen the maintenance of project equipment. The Contractor has rectified the oil-spilling issue raised by the Engineer. The Contractor designated mechanical engineers Li Xiaoke and Zeng Yong to be responsible for handling leaks (oil spills) at the two camps of the project.	Contractor's Ref.# CR5-ED-709. Dated: 02.08.2024	The violations have been rectified. These issues will be monitored during future audits.

4	PPE	Appendix (xii) – Camp and Workshop Management Plan Gentek Ref.: June 28, 2024/671 Gentek Ref.: August 19, 2024/718 Gentek Ref.: August 30, 2024/733 Gentek Ref.: September 16, 2024/770	Safety equipment and personal protective equipment are required to be available on the Site at all material times, and measures for the effective enforcement of proper utilization and necessary replacement of such equipment and clothing, and all construction plant and equipment used on or around the Site shall be fitted with appropriate safety devices.	Provide all working personnel with full PPE and monitor that it is in good condition and that personnel wear it.	The Contractor purchased a new batch of uniforms and safety shoes for the project employees, which were delivered to the site on July 9, 2024, and promptly distributed to the employees. 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-709. Dated: 02.08.2024 Contractor's Ref.# CR5-ED-735. Dated: 22.08.2024 Contractor's Ref.# CR5-ED- 766. Dated: 14.09.2024 Contractor's Ref.# CR5-ED- 772. Dated: 25.09.2024	The violations have been rectified. These issues will be monitored during future audits.
5	Camps	Appendix (xii) – Camp and Workshop Management Plan Gentek Ref.: June 28, 2024/671 Gentek Ref.: August 19, 2024/718 Gentek Ref.: August 30, 2024/733 Gentek Ref.: September 16, 2024/770 Gentek Ref.: September 30, 2024/783	Living and office spaces in construction camps should provide all the conditions for full-fledged work, rest, and accommodation for the personnel.	On the camp's territory at km 148+630, near the kitchen, the faucet in the shower for local workers is broken, and the water is constantly flowing. As a result, a puddle has formed. The faucet needs to be repaired urgently. On the territory of camps at km106+300 and km148+630, wastewater storage tanks (septic tanks) are overflowing; they shall be removed by sewage trucks by the concluded service agreement. Ensure that restrooms	On the camp's territory at km148+630, the faucet near the kitchen and shower for local workers has been repaired and is now functioning properly. Due to the high frequency of workers using the faucet in this area, if any damage is found, the Contractor will promptly repair or replace it with a new one. Regarding the issue of septic tank wastewater overflow in the camp areas of km106+300 and km148+630, the Contractor has contacted sewage trucks to remove the	Contractor's Ref.# CR5-ED-709. Dated: 02.08.2024 Contractor's Ref.# CR5-ED-735. Dated: 22.08.2024 Contractor's Ref.# CR5-ED- 766. Dated: 14.09.2024 Contractor's Ref.# CR5-ED- 772. Dated: 25.09.2024 Contractor's Ref.# CR5-ED- 777. Dated:	The violations have been rectified. These issues will be monitored during future audits.

				are clean and have water, soap for hand washing, and toilet paper available.	wastewater. To avoid similar situations from happening again, The contractor will regularly check the water level of the septic tanks and contact and arrange for sewage trucks to remove the wastewater promptly.	06.10.2024	
6	Safety instructions	SSEMP, 5.1 Appendix (xii) – Camp and Workshop Management Plan Gentek Ref.: June 28, 2024/671 Gentek Ref.: July 30, 2024/695	To prepare a training plan for safety and adhere to it. Safety Meetings. Regular safety meetings should be conducted regularly and require attendance by the safety representatives of subcontractors unless otherwise agreed upon by the engineer. In addition, toolbox talks may be envisaged to heighten worker's awareness of specific workplace hazards. Safety Inspections. The Contractor shall regularly inspect, test, and maintain all safety equipment, guardrails, working platforms, hoists, and other means of access, lifting, lighting, signing, and guarding equipment. Lights and signs shall be kept clear	To ensure the availability of information materials (posters) with contact information for all emergency services in Kyrgyz, Chinese, and Russian on the territory of construction camps (km 106+300 and km 148+630). To prepare and submit a Safety Training Plan for the second half of 2024. To ensure the availability of information materials (posters) with contact details of all emergency services in Kyrgyz, Chinese, and Russian languages at the construction camps (km 106+300 and km 148+630).	Posters with emergency service contact information in Chinese, Kyrgyz, and Russian have been posted at the camps. The Safety Training Plan for the second half of 2024 was provided. The Contractor conducts monthly briefings for the workforce, including initial occupational safety briefings. The Contractor's HSE Engineer conducted safety briefings (08/08/2024; 09/09/2024;10/10/2024; 12/11/2024) for all workers, including workers from Pakistan, and will continue to provide regular training to enhance workers' awareness of safety practices.	Contractor's Ref.# CR5-ED-709. Dated: 02.08.2024 Contractor's Ref.# CR5-ED-723. Dated: 10.08.2024	The violations have been rectified. These issues will be monitored during future audits.

			of obstructions and legible to read. Equipment damaged, dirty, incorrectly positioned, or not in working order shall be repaired or replaced immediately.				
7	Fire safety	SSEMP, 6.4 EMP Appendix (xii) - Construction Site and Camp Management Plan Appendix (xiii) - Materials Processing, Equipment Yard, and Storage Plan Gentek Ref.: June 28, 2024/671 Gentek Ref.: July 30, 2024/695 Gentek Ref.: August 19, 2024/718 Gentek Ref.: August 30, 2024/733 Gentek Ref.: September 16, 2024/770	Compliance with all fire safety requirements by the Law of the Kyrgyz Republic dated June 7, 2016, No. 78 "On Ensuring Fire Safety." Provide primary fire-fighting equipment at the site, particularly fire extinguishers and firefighting accessories boards with required equipment. Regularly train workers on the use of firefighting equipment.	To equip fire protection shields. Cover all gas cylinders from direct sunlight to avoid explosion and fire in km 148+630 and km 106+300. Fuel trucks should park in the camp at km 148+ 630, where a special parking lot is provided for heavy-duty vehicles to avoid explosions and fire. Set up a smoking area in a place away from fuel and lubricants with a sign allowing smoking and provide a fireproof bucket for cigarette butts	Fire shields in the camps, asphalt concrete plants, and construction sites have been equipped; All gas cylinders have been covered. The fuel trucks have been moved from the kitchen area of the km148+630 camp and parked at a safe place. A smoking area away from fuel and lubricants has been provided with a sign permitting smoking and a fireproof bucket for cigarette butts.	Contractor's Ref.# CR5-ED-709. Dated: 02.08.2024 Contractor's Ref.# CR5-ED-723. Dated: 10.08.2024 Contractor's Ref.# CR5-ED-735. Dated: 22.08.2024 Contractor's Ref.# CR5-ED- 766. Dated: 14.09.2024 Contractor's Ref.# CR5-ED- 772. Dated: 25.09.2024	The violations have been rectified. Since items and tools from fire shields can be used in work (shovels, buckets, crowbars), it is necessary to ensure that workers return items to their place. The Contractor's HSE Engineer must conduct an explanatory talk or safety briefing for all workers with workers about the importance of returning items and tools to their places and the importance of covering gas cylinders from direct sunlight. These issues will be monitored

							during future audits.
8	Compensatory tree planting	SSEMP, 3.1 – Environmentally vulnerable areas Gentek Ref.: June 28, 2024 г /671	Implement compensatory measures to restore the number of green plantations by planting new tree saplings as construction work on the project site is completed. Plan for planting new tree samplings at a ratio of 1:2, meaning that for every tree cut down, the planting of 2 new trees is planned, of the same species or a different species in suitable locations.	- Consult with representatives of the forestry enterprise/nursery from which the trees were purchased and, if necessary, treat the trees with chemicals (fungicides) - Adjust watering; - Systematic surveillance of the emergence and spread of diseases and soil moisture	On 02.08.2024, an inspection of all compensatory tree plantings was carried out with a representative of the Naryn Forestry Department.	Contractor's Ref.# CR5-ED-752. Dated: 07.09.2024	Ongoing issue Low survival rate of deciduous trees is observed. The reason is unclear. Conduct a re-inspection in spring 2025 (end of March) and replace trees that have not taken root in April 2025.
9	Fauna	SSEMP, 3.1 – Environmentally vulnerable areas Gentek Ref.: June 28, 2024 г /671	Minimize adverse impacts on fauna.	- Ensure timely removal of animals/birds hit by cars. - Install temporary warning signs about the presence of large numbers of birds on this section of the road during the period of active nesting (summer period)	The Contractor installed temporary warning signs about large numbers of birds on this section of the road during active nesting.	Contractor's Ref.# CR5-ED-709. Dated: 02.08.2024	The violations have been rectified.

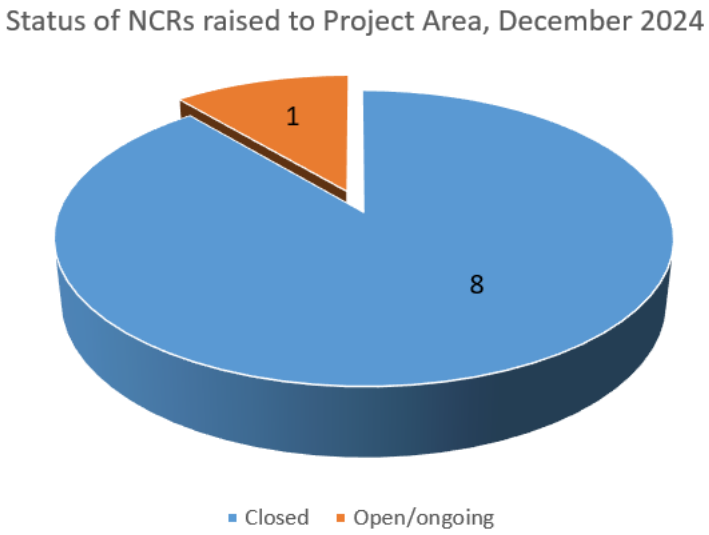


Figure 30: Status of Non-compliances and Corrective Actions.

Table 15: Summary of Issues Tracking Activity for the Current Period.

Total Number of Issues for Project	9
Open/ongoing issues in this Reporting Period	1
Closed Issues in this Reporting Period	8
Percentage of Closed Issues	90 %

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

113. There is a low survival rate of deciduous trees (poplars) of the compensatory planting carried out in April 2024.

114. Handling production waste and maintaining decent sanitary and hygienic conditions in construction camps, timely disposal of waste and oil leaks in the camps/site area, and lack of PPE or parts are the matters that require constant monitoring by the Contractor`s environmental and health and safety officers and periodic worker training.

Table 16: Corrective Action Plan for the first half of 2025.

№	Action	Requirement SSEMP/National legislation	Resources, Responsibility	Timetable	Comments
Environmental and Social Management System					
1	Prepare and submit to the Engineer for approval a training plan for CR No. 5 workers on safety and sanitary hygiene in production for the first half of 2025	ESS4 of Environmental and Social Framework ADB and para 5 of SSEMP	CR № 5 HSE Engineer Bulanbek Dzhumaliev	15/03/2025	Must be approved by the Engineer and ADB
2	Ensure that the Contractor`s environmental and health and safety officers are consistently on-site, conducting daily toolbox talks for workers, especially those who operate heavy equipment.	ESS3 and ESS4 of Environmental and Social Framework ADB	CR № 5 Environmental Specialist Nurlan Nurdinov HSE Engineer Bulanbek Dzhumaliev	Constantly	Continue to meet this requirement in the first half of 2025.
3	Improve housekeeping practices and address poor sanitary and hygiene conditions.	ESS3 and ESS4 of Environmental and Social Framework ADB	CR № 5 Environmental Specialist Nurlan Nurdinov HSE Engineer Bulanbek Dzhumaliev	Constantly	Continue to meet this requirement in the first half of 2025.
The Quarries					
4	Prepare a Quarry Reclamation Plan. After the reclamation is completed according to the approved plan, a commission consisting of representatives of local authorities and the Territorial Department of Environmental Protection will inspect the work and draw a corresponding report.	Appendix xiii SSEMP	CR № 5 Environmental Specialist Nurlan Nurdinov	30/05/2025	Submit Quarry Reclamation Plan for approval by the Engineer and ADB
Road Section, km 89+500 – km 159+200					
5	Conduct a re-inspection in spring 2025 (end of March) and replant trees that have not taken root in April -June 2025.	Appendix ix SSEMP	CR № 5 Environmental Specialist Nurlan Nurdinov	07/06/2025	A joint inspection will be conducted with a representative of the Naryn Forestry Department.

3.4 Trends.

115. Analysis of trends observed during previous and current audits indicate positive trends in eliminating non-conformities, which indicates a significant improvement in the Contractor's environmental and safety performance. The Contractor's corrective action plan was fully implemented within the first month of receipt. Also, during the reporting period, the Contractor's environmental management system was significantly improved, which contributed to timely response to risks, prompt adoption of corrective actions, and timely feedback to the Engineer.

116. However, some violations remain systematic as they relate to daily project activities, such as neglecting the use of PPE or its components, safety violations (e.g., parking fuel trucks in unauthorized areas, leaving gas cylinders under direct sunlight during summer), and incomplete fire shields (ensuring that workers return items to the fire shields).

3.5 Unanticipated Environmental Impacts or Risks.

117. The risks were identified and covered in the SSEMP document.

118. There were no unanticipated environmental impacts or risks during the reporting period.

3.6 Summary of Appeals and Grievances.

119. A Grievance Redress Group (GRG) within the framework of the Grievance Redress Mechanism (GRM) at the project site is established before the commencement of construction work. The GRG includes representatives of local government bodies, Contractor, Consultant, and PIU.

120. On July 26, 2024, the Contractor held public hearings in the villages of Cholpon, Jumgal, Kyzart, and Kuiruchuk to explain the Grievance Redress Mechanism, inform the population about planned works, and discuss social issues and environmental protection.

121. No appeals or grievances regarding environmental protection issues were registered during the reporting period.

122. The Semi-Annual Social Monitoring Report will give a more detailed analysis of public appeals.

4 RESULTS OF ENVIRONMENTAL MONITORING.

4.1 Overview of Instrumental Environmental Monitoring Conducted During the Current Period.

123. In August 2024, environmental instrumental monitoring of noise levels, vibration, surface water, and air quality was conducted.

124. The commercial laboratory ProfiLab LLC measured instrumental noise and vibration, and the chemical-analytical research laboratory under the Ministry of Health of the Kyrgyz Republic evaluated air and surface water quality. Table 17 shows the dates of sampling and analyses.

Table 17: Instrumental Monitoring Dates.

№	Monitoring name	Date of monitoring	Date analyses conducted
1	**Noise and Vibration**	14.08.2024	16.08.2024
2	**Surface Water Quality**	14.08.2024	15.08.2024 – 22.08.2024
3	**Air Quality**	14.08.2024	15.08.2024 – 20.08.2024

125. In sections 4.1.1 to 4.1.3, the report presents the outcomes of instrumental monitoring measurements implemented during the reporting period. Copies of laboratory protocols are attached in Appendix 3.

126. Below are photographs of the instrumental monitoring carried out.

Figure 31: Instrumental monitoring of noise and vibration levels.

Figure 32: Instrumental monitoring of water quality.

Figure 33: Instrumental monitoring of air quality.

4.1.1 Noise and Vibration Impact Monitoring.

127. The specialists of the ProfiLab LLC laboratory implemented the noise and vibration instrumental tests.

128. Noise and vibration levels were measured at 5 points along the planned project road in the vicinity of settlements and construction sites:
Point 1. New camp and Crusher, km 106+300;
Point 2. Jumgal village, next to the school, km 129+400;
Point 3. Kuiruchuk village, next to the Azamat store, km 144+000;
Point 4. North-eastern side of the Asphalt plant and Crusher, Tugol – Sai village, km 149+000;
Point 5. Tugol - Sai village, next to the Kutman store, km 151+000;

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

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

131. Vibration measurements were carried out following GOST 31319 “Vibration. Measurement and evaluation of human exposure to whole-body vibration."

132. The results of instrumental noise measurements showed that at the time of measurements, noise levels were:
- in settlements: from 40 to 56 dBA, which meets sanitary standards;
- at construction sites: from 46 to 64 dBA, which meets sanitary standards.

133. The results of instrumental vibration measurements showed that at the time of measurements, vibration levels were in settlements and at construction sites from 88 dBA to 97 dBA, which does not exceed sanitary standards.

134. The detailed noise and vibration impact monitoring results are given in Appendix 3 and Tables 18 and 19.

Table 18: Results of noise level monitoring.

Indicator	Units	Point Analysis Data					Standard noise level, dBA
		1	2	3	4	5	
Equivalent noise level, Leq (11:00 a.m. - 01:40 p.m.)	dBA	57	56	52	64	40	70
Equivalent noise level, Leq (03:20 p.m.- 06:10 p.m.)	dBA	55	53	50	59	42	70
Equivalent noise level, Leq (7:30 p.m. - 10:00 p.m.)	dBA	54	51	54	46	45	70

Table 19: Results of vibration level monitoring.

Indicator	Units	Point Analysis Data					Standard vibration level, dB
		1	2	3	4	5	
Equivalent vibration level, Leq (11:10 a.m. - 01:50 p.m.)	dB	89	91	97	89	88	108
Equivalent vibration level, Leq (03:30 p.m.- 06:00 p.m.)	dB	88	90	91	90	89	108
Equivalent vibration level, Leq (7:40 p.m. - 10:10 p.m.)	dB	89	93	91	92	91	108

4.1.2 Surface Water Quality Monitoring.

135. Sampling and testing 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. Water transparency, biochemical oxygen demand (BOD_5), the content of oil products, and suspended solids were measured during the reporting period.

136. The samples were taken at 3 points:
Point 1. Water from the river Chalay, next to the Crusher, km 106+300;
Point 2. Water from the daily bondage basin at km 140+600 Kuiruchuk village;
Point 3. Water from the irrigation canal at km141+874 Kuiruchuk village.

137. Laboratory tests were carried out under 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 domestic-utility needs of the public", dated April 11, 2016, No. 201.

138. According to the results of the chemical analysis, the water samples showed an exceedance of the MAC (maximum allowable concentration) for the cultural and household category by 1.4 times for BOD_5 in the water sample taken from the sedimentation pond at km 140+600 (slight excess of the norm). All other indicators of pollutants in water bodies are within the established standards. The outcomes of surface water monitoring are given in Appendix 3 and Table 20.

Table 20: The outcomes of surface water monitoring.

Indicator	Units	Point Analysis Data			MAC	
		1	2	3	household-drinking needs	Domestic-utility needs
Water transparency	sm	45.0	15.2	42.0	-	
Suspended solids	mg/l	2.80	2.6	3.6	Increase in background concentrations on 0.25/0.75	
Biochemical oxygen demand (BOD_5)	mgO/l	3.29	5.54	4.06	3.0	4.0
Oil products	mg/l	0.021	0.036	0.04	0.05	0.3

4.1.3 Air Quality Monitoring.

139. Specialists from the Laboratory of Chemical Analytical Research Department of Disease Prevention of the State Sanitary and Epidemiological Surveillance under the Ministry of Health of the Kyrgyz Republic sampled and tested air quality. During the reporting period, particulate matter (PM), nitrogen dioxide, sulfur oxide, and carbon monoxide measurements were performed.

140. The samples were taken at 5 points:
Point 1. New Camp and Crusher, km 106+300;
Point 2. Jumgal village, near the school, km 129+400;
Point 3. Kuiruchuk village, near the Azamat store, km 144+000;
Point 4. Tugol-Sai village, on the west side of the Kutman store, km 151+000;
Point 5. Tugol-Sai village, north-eastern side of the Asphalt plant and Crusher, km 149+000.

141. Laboratory tests were carried out per the guidelines for controlling atmospheric pollution.

142. According to the results of atmospheric air tests, no excess of MAC (maximum allowable concentrations) was observed in the processed atmospheric air samples for all pollutants.

143. The MAC corresponds to the established hygienic standard approved by the Decree of the Government of the Kyrgyz Republic No. 201 of April 11, 2016, “MAC of pollutants in the atmospheric air of populated areas”.

144. The monitoring outcomes are presented in Appendix 3 and Table 21.

Table 21: The outcomes of air monitoring.

Indicator	Units	Point Analysis Data					MAC, mg/m^3
		1	2	3	4	5	
Sulfur dioxide	mg/m^3	0.091	0.102	0.126	0.1113	0.103	0.5
Nitrogen dioxide	mg/m^3	0.080	0.078	0.074	0.079	0.073	0.085
Carbon monoxide	mg/m^3	0.8	0.6	1.0	0.7	0.8	5.0
Particulate matter	mg/m^3	0.26	0.175	0.437	0.260	0.350	0.5

4.2 Trends.

145. Positive trends are observed in the Project location, attributed to the reduced volume of earthworks and the significantly decreasing air and water pollution caused by suspended solids. In addition, the noise load along the road has also been significantly reduced.

146. The instrumental tests (noise, vibration, atmospheric air, and water monitoring) were conducted in August 2024 during the reporting period.

147. Equivalent noise levels in settlements next to the road during the daytime were 40–56 dBA, and in the territory of construction sites, they were 46–64 dBA, which corresponded to sanitary standards.

148. Vibration levels were below the maximum permissible level, ranging from 88 to 97 dB in settlements and on construction sites' territory.

149. Surface water quality parameters were within the MAC for all pollutants except for BOD_5 in the water sample from the sedimentation pond at km 140+600, slightly exceeding the limit by 1.4 times.

150. Positive trends are observed in the measured air parameters. Atmospheric air quality parameters for all pollutants were within the MAC.

151. Since the main work on the project has been completed, the noise load and pollutants emissions into the atmosphere will only decrease in the next reporting period.

4.3 Summary of Monitoring Outcomes.

152. Noise and Vibration Impact Monitoring: The results of instrumental noise measurements showed that at the time of monitoring, noise levels in settlements near the road were in the range from 40 to 56 dBA (i.e., below the daily permissible level set at 70 dBA), and in the territory of construction sites - from 46 to 64 dBA (below the daily permissible level within the work area, set at 80 dBA). The overall vibration level from traffic flow on the road and the territory of construction sites was below the permissible level, namely 108 dB, and ranged from 88 to 97 dB.

153. Surface Water Quality Monitoring: The concentrations of pollutants were within the MAC at all stages of monitoring, except for BOD5 in the water sample from the sedimentation pond (km 140+600), which was 5.54 mgO/L, slightly exceeding the standard of 4 mgO/L.

154. Air Quality Monitoring: All pollutants measured in atmospheric air samples taken at specified points were within the MAC levels.

4.4 Material Resources Utilisation.

155. China Railway No.5 uses water for dust suppression from previously agreed-upon and approved water sources (the Jumgal, Tugol-Sai, Karasuu, and Kyzartsuu rivers). The use of electricity, water, and other materials was not reported for monitoring in SSEMP.

4.5 Waste Management.

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

157. Sewage is collected in stationary septic tanks in the first and second camps. As the septic tank is filled, the sewage is removed by the Chaek Municipal Enterprise and taken to the authorized wastewater treatment plant in Chaek Village for further treatment and disposal. Chaek Municipal Enterprise is the only specialized enterprise in the project area with an authorized wastewater treatment plant. Based on the agreement, solid waste from the two camps is transported to the landfill in Tugol-Sai village. The landfill of Tugol-Sai village is in use; the village government approved it with signed Order № 13b dated 18.04.22).

158. Waste management in construction camps and production sites improved during the reporting period.

4.6 Health and Safety.

4.6.1 Community Health and Safety.

159. The contractor has appointed Bulanbek Djumaliev as a full-time HSE engineer. No permanent medical staff is involved in the project; in case of emergency or whether medical treatment is required, the local medical facility in the vicinity of the camp has been contracted to provide healthcare services.

160. During the reporting period, three road traffic accidents resulted in fatalities among the local population:

- October 9, 2024, 19:00, Jumgal Village: Collision with a pedestrian involving a Toyota Hilux, resulting in one fatality.

- October 26, 2024, 18:35, km 143+020, Tyugelsai Village: Collision involving Hovo vehicle, Honda-SRV, and Audi-80. This accident resulted in three fatalities.

- October 27, 2024, 19:20, km 94+000: Collision between a Howo dump truck and a Mazda Demio, resulting in the death of the passenger. Drivers were hospitalized.

161. On October 28, 2024, representatives of the Territorial Road Safety Department of the Ministry of Internal Affairs of the Kyrgyz Republic conducted informational and awareness sessions with workers in the camp (km 148+630) on the importance of complying with traffic regulations.

Figure 34: Conducting awareness-raising work among workers on the importance of complying with traffic regulations (28/10/2024).

162. The investigation of the traffic accidents is ongoing, and the results will be presented in the next semi-annual report.

163. To mitigate further risks, the Contractor will take the following actions:

- **a. Completion of Traffic Signs and Signaling.** The Contractor is directed to install all required traffic signage and signaling equipment along the entire project route in accordance with project specifications, as this is critical for guiding vehicle speeds and ensuring traffic compliance.

- **b. Installation and Activation of Lighting Poles.** Lighting poles must be installed and fully operational, particularly in residential areas, to improve nighttime visibility. This measure is essential for accident prevention and must be completed without further delay.

- **c. Enhanced safety protocols in construction areas.** Current markings and warnings are insufficient. The Contractor must immediately take these additional steps:

- Place flashing light warnings (flashers) at all critical points.

- Increase the number and distance of traffic caution signs in both directions, considering the elevated speeds observed.

- Deploy flagmen at key locations to enhance safety and enforce speed control.

- **d. Conduct Comprehensive Safety Training.** Effective immediately, the Contractor is required to conduct a thorough safety education program for all personnel, with an emphasis on traffic control and speed management.

164. The consultant's Road Safety Engineer, Suiunbek Tokobaev, undertook monthly visits of the project road and construction sites to ensure safety measures were followed. Urgent actions were closed immediately, and actions requiring longer to fulfill were formally communicated to the Contractor.

165. The Contractor fulfills road maintenance activities 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 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.

4.6.2 Worker Safety and Health.

166. The Contractor prepared and submitted the occupational health and safety plan in February 2022 and updated it in September 2024.

167. During the reporting period, there were no accidents, incidents that led to problems with the health and safety of employees, or incidents related to downtime (except for two road traffic accidents involving the Contractor, see p.4.3.1).

168. On September 7, 2024, the Contractor updated the Emergency Response Plan and installed notice boards in construction camps displaying contact details of emergency services, brochures on first aid, fire safety rules, and instructions for using fire extinguishers.

Figure 35: Notice boards displaying contact details of emergency services, brochures on first aid, fire safety rules, and instructions for using fire extinguishers.

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

170. The Contractor conducts initial safety briefings and mandatory training.

171. All workers working at the facilities are provided with a complete set of PPE (overalls, helmets, boots, welding shields, aprons, gloves, headphones, and safety glasses) but neglect to wear a complete set of PPE.

Figure 36: Conducting awareness-raising work among workers the importance of PPE (02/09/2024).

172. The HSE engineer daily checks critical safety equipment (fire extinguishers, sandboxes, other fire-fighting equipment, first aid kits, etc.).

Figure 37: Equipped fire safety boards.

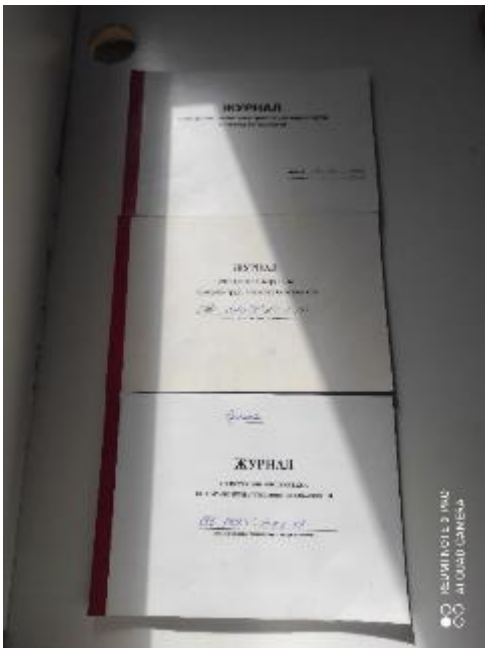
173. Project workers undergo regular medical examinations, including testing for HIV and other related diseases.

4.7 Training.

174. The Contractor's Occupational Health and Safety (OHS) training program, as outlined in the OHS Management Plan as part of the updated SSEMP(September 2024), consists of the following components:

- Initial orientation to familiarize all workers and staff with OHS, conducted within the first week of their assignment.
- Periodic OHS training sessions held at least once every six months.
- Monthly regular meetings to discuss OHS matters.
- Regular inspections to test, maintain, and inspect safety equipment, such as fire shields, fire extinguishers, barriers, work platforms, winches, ladders, lighting, road signs, personal protective equipment (PPE), and other safety devices.

175. The introductory orientations are conducted for each new employee, and records of their completion are documented in the "Register of Introduction Briefings on Occupational Safety."



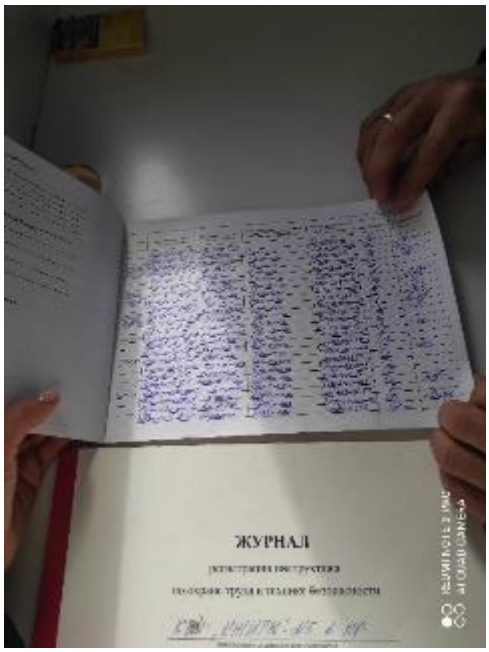


Figure 38: Register of Introduction Briefings on Occupational Safety.

176. During the reporting period, the Contractor's HSE Engineer conducted occupational health and safety trainings on the following topics:

- 08/08/2024: Working conditions. Hazardous and harmful production factors specific to the project. Key requirements for injury prevention, personal protective equipment (PPE), and procedures for PPE use;

- 09/09/2024: General rules of conduct for workers on the project site. Key requirements for occupational sanitation and personal hygiene;

- 10/10/2024: Circumstances and causes of specific characteristic accidents, acute poisonings, incidents, and fires at similar facilities due to safety and labor protection requirements violations. Procedures for workers in the event of an accident or acute poisoning at work;

- 12/11/2024: Fire, industrial, and transport safety. Methods and means of preventing fires, explosions, accidents, incidents, and workers' actions in case of such events. First aid for the injured and subsequent actions during accidents.

177. The training on safety and sanitary hygiene in production was conducted under the Training Plan for CR No. 5 workers.

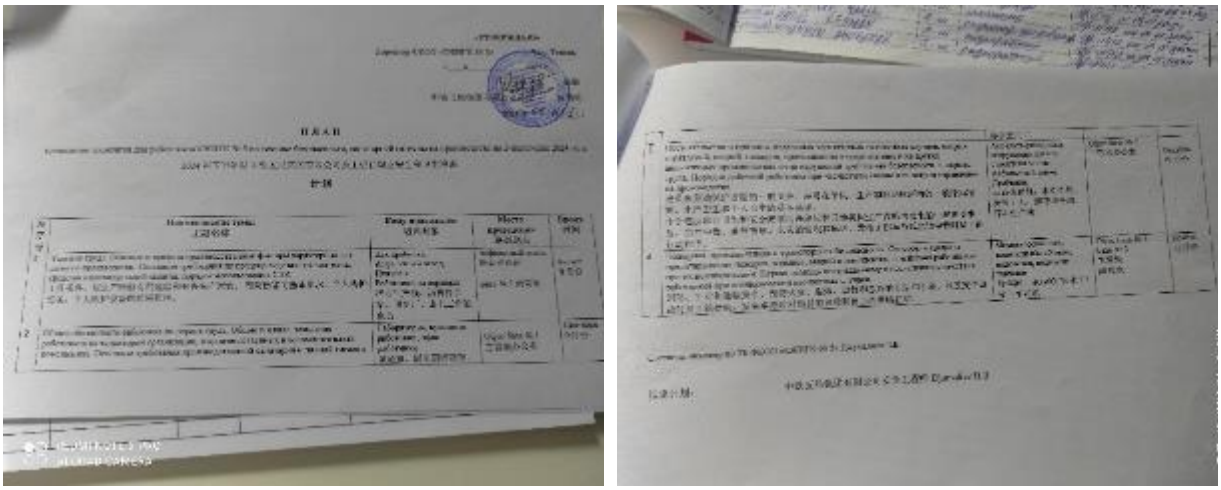


Figure 39: Training Plan for CR No. 5 workers on safety and occupational hygiene or the Second Half of 2024.

5 SSEMP FUNCTIONING.

5.1 SSEMP Review.

178. 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.

179. During the reporting period, the Contractor's environmental management system was significantly strengthened by:

- Updating the Contractor’s SSEMP ((information about the second construction camp and the crushing and screening plant at km 106+300 was added, as well as the Contractor's Tree Compensation Planting Plan and Emergency Response Plan);

- Preparing a Training Plan for CR No. 5 workers on safety and occupational hygiene for the second half of 2024;

- Personnel responsible for eliminating oil leaks in two camps and production bases of the project have been appointed;

- Ensuring the daily presence of the Contractor’s environmental and health & safety officers on-site.

180. The actions taken to update the SSEMP are sufficient for the functioning of the Contractor's environmental management system.

181. The Contractor, represented by Nurdinov Nurlan, responsible for environmental protection, represented by Bulanbek Djumaliev, responsible for HSE are taking measures to mitigate the potential consequences of construction work. The Consultant's specialists regularly implement inspections to monitor environmental safeguard activities and whether they are following the requirements of SSEMP.

182. Reviewing the Contractor's SSEMP and observing 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.

183. The best practice for improving the SSEMP is to constantly update it (at least once a year) and adapt all sub-plans to the project's changing circumstances and conditions. The main directions are outlined below.

184. Clear structure and division of responsibilities:

- Appointment of dedicated personnel (environmental and social specialists) at project sites;

- Regular monitoring and reporting on environmental and social aspects.

185. Staff training and public awareness:

- Regular training sessions for staff on environmental protection, occupational safety, and traffic rules;

- Public awareness campaigns about project impacts and available grievance mechanisms for the local population.

186. Preventive control measures:

- Development and implementation of SSEMP sub-plans;

- Conducting environmental inspections and corrective actions in case of identified non-conformities.

187. Stakeholder engagement:

- Public consultations with local communities, ensuring open communication and addressing social concerns;

- Collaboration with government bodies, such as local forestry departments, for monitoring compensatory planting efforts.

6.2 Opportunities for Improvement.

188. The Contractor is responsible for ensuring compliance with environmental standards, occupational health, and workplace safety, and it is in their interest to continually improve their environmental and social system. Key areas for improvement are listed below.

189. Strengthening monitoring and reporting:

- Implementation of digital tools to automate the monitoring of environmental and social indicators;

- Regular updates of online registers for grievances, incidents, and inspection results;

- Quarterly inspections using environmental checklists and preparation of Corrective Action Plans based on the findings.

190. Optimizing the training program:

- Expanding the content of training sessions to address identified deficiencies;

- Engaging external specialists to conduct training events.

191. Enhancing community engagement:

- Regular surveys and consultations with local communities to identify and resolve potential issues;

- Expanding programs to support local initiatives, such as access to clean water or road improvements.

192. Improving the effectiveness of compensatory measures:

- Selecting suitable tree species resilient to future climatic conditions (changes in ombroregime and continentality) to ensure high survival rates and long-term ecosystem stability;

- Developing long-term care plans for compensatory trees considering climatic and local characteristics, involving specialized experts;

- Involvement of specialists for diagnostics and prevention of tree diseases on an ongoing basis during the defect liability period.

193. Enhancing contractor involvement:

- Inclusion of environmental and social management requirements, as well as liability for failure to comply with these requirements, in the contractual obligations of subcontractors..

194. These measures will help strengthen the system’s resilience and efficiency, minimize environmental impact, and improve social engagement with the local population.

7 SUMMARY AND RECOMMENDATIONS.

7.1 Summary.

196. The contractor has obtained all the necessary permits from local authorities for the use of quarries, dumps, production sites, and construction camps (these were presented in previous reports).

197. Archaeological excavation activities at historical and cultural heritage sites were completed in 2022. The contractor did not damage any historical and cultural heritage sites located along the road.

198. Reclamation has not been carried out at the 15 quarries, which will continue to be used until all construction work on the project road section is completed. Their reclamation is provided for in the Contractor`s Programme for the remaining works.

199. Considering that the base course and the prime coat of the road pavement are laid 100%, dust suppression is only required on sections of the road where earthworks are still being carried out (formation of shoulders and slopes). In this regard, the number of water tank trucks was reduced twice compared to the previous year.

200. During the reporting period, one stage of instrumental monitoring was conducted at specified and approved locations. Positive trends are observed, attributed to the reduced volume of earthworks and the significantly decreasing air and water pollution caused by suspended solids. In addition, the noise load along the road has also been significantly reduced. Since the main work on the project has been completed, the noise load and pollutants emissions into the atmosphere will only decrease in the next reporting period

201. During this reporting period, low survival rates of deciduous trees (poplars) from compensatory plantings were identified for unclear reasons. Many seedlings were mechanically damaged, or their stems were dry and broken by the wind.

202. During the reporting period, positive trends were observed in addressing non-compliance, indicating significant improvement in the Contractor's environmental protection and safety performance. The Contractor fully implemented the Corrective Action Plan within the first month after receipt (Contractor’s Ref.# CR5-ED-709. Dated: 02.08.2024).

203. The Contractor's environmental management system has been significantly strengthened.

204. During the reporting period, the Contractor improved stakeholder engagement and held public hearings in the villages of Cholpon, Jumgal, Kyzart and Kuirukchuk to explain the operation of the Grievance Redress Mechanism and inform the population about the planned work, as well as discuss social issues and environmental protection.

7.2 Recommendations.

205. To complete the project successfully, the Contractor is recommended to adhere to all requirements of the EMP and pay special attention to:

- Occupational health and safety across the Project area, special attention should be paid to compliance with traffic rules and speed limits: The Contractor must prepare and submit a Training Plan for CR No. 5 workers on safety and occupational hygiene for the first half of 2025 for approval by the CSC;

- Quarries rehabilitation: The Contractor must prepare a Quarry Rehabilitation Plan. After completing rehabilitation under the approved plan, a commission comprising representatives of

local authorities and the Territorial Environmental Protection Department will inspect the work and issue an official report;

- Compensatory tree planting: The Contractor must ensure the survival of all compensatory trees planted. A follow-up inspection with a representative from the Naryn Forestry Department should be conducted in spring 2025 (end of March), and non-surviving trees must be replaced in April-June 2025.

206. It is also recommended that a separate road safety report be prepared for the project. This is necessary to improve the level of road safety, control the implementation of corrective measures and prevent incidents in the future. Such a report will ensure a systematic approach to solving safety problems and increase confidence in the project management.

APPENDICES

CAREC CORRIDORS

1 and 3 Connector Road Project
Engineering and Construction Supervision

Gentek Consult Ltd.

CAREC Corridors, 1 & 3 Connector Road Project, Section 2B

July 30, 2024
Ref. No. 695

To: China Railway No.5 Engineering Group Co., Ltd.
Attn.: Mr. Zhang Liang
Project Manager

Copy: Ministry of Transport and Communication of the Kyrgyz Republic
Attn.: Mr. Ibraimov Sanjar
Head of PIU

Subject: Environmental monitoring

Dear Mr. Chen Tielian,

Within the framework of the ongoing project "CAREC Corridors 1 and 3 Connection Road Section 2B, Epkin – Bashkuugandy" on July 27-28, 2024, T.N. Zhumaliev, local environmental specialist of **Gentek Consult 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.

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.

Based on the result of visual monitoring, please, be notified that all the listed below remarks and requirements shall be addressed by August 10, 2024. A report and photographs shall be send to the Consultant:

1. To equip fire extinguishing panels in the camp and production site at km 148+630, as well as at km 106+300;
2. To cover all gas cylinders to prevent explosion and fire;
3. Not to park fuel trucks near the kitchen at km 148+630 to prevent explosion and fire (there is a special parking lot for heavy vehicles on the camp territory);
4. To ensure the availability of information materials (posters) with contact information for all

CAREC Corridors, 1 & 3 Connector Road Project, Section 2B

30 июля 2024 г.
Исх.№ 695

Кому: China Railway No.5 Engineering Group Co., Ltd.
Г-ну Чжан Лян
Менеджер Проекта

Копия: Министерство Транспорта и Коммуникации Кыргызской Республики
Г-ну Ибраимову Санжару
Руководитель ГРП

Отн-но: Мониторинг окружающей среды

Уважаемый г-н Чэнь Телянь,

В рамках реализуемого проекта «Коридоры ЦАРЭС 1 и 3 Пути Соединения (Участок 2В "Автодорога Эпкин [км 89] - Башкууганды [км 27-28 июля 2024 г. местным специалистом по охране окружающей среды компании «**Gentek** » Т.Н Жумалиевым был проведен визуальный мониторинг по соблюдению экологических требований на строительных участках, карьеров, отвалов, на территории жилых лагерях и производственных площадок.

По результатам данного посещения были выявлены ряд нарушений требований ПУОСКУ, а также Политики по защитным мерам Азиатского Банка Развития. Фотографии прилагаются.

На основании результата визуального мониторинга, уведомляем вас о том, что необходимо выполнить нижеследующие замечания устранить в срок до 10-августа 2024 года. Отправить отчет и фотоматериалы:

Укомплектовать противопожарные щиты в лагере и производственной площадке в км 148+630, а также в км 106+300;

Прикрыть все газовые баллоны во избежания взрыва и пожара;

Не ставить бензовозы возле кухни в км 148+630 во избежания взрыва и пожара (на территории лагеря предусмотрена специальная стоянка для большегрузных автомашин);

Обеспечить наличие информационных материалов (плакатов) с контактными данными всех экстренных служб при ЧС на кыргызском,

emergency services in Kyrgyz, Chinese and Russian on the territory of construction camps (km 106−300 and km 148+630).	китайском и русском языках на территории строительных лагерей (км 106+300 и км
Attachment: Photos – 3 sheets	Приложение: Фотографии – 3 листа
Thanking you. Best regards. Selcuk Mutlu Team Leader	Благодарю Вас. С уважением, Сельчук Мутлу Руководитель группы

Received by / Получил (а) _____ ____/ ____/ 2024 г.
Signature / Подпись *Date / Дата*

Фото 1. На территории лагеря бензовозы стоят возле кухни

Photo 1. Fuel trucks are parked near the kitchen at the camp.

Фото 2. Некоторые противопожарные щиты не доукомплектованы

Photo 2. Some fire extinguishing panels are not fully equipped

Фото 3. Газовые баллоны не прикрыты от прямого попадания солнечного луча

Photo 3. Gas cylinders are not protected from direct sunlight

CAREC Corridors, 1 & 3 Connector Road Project, Section 2B	CAREC Corridors, 1 & 3 Connector Road Project, Section 2B
August 19, 2024 Ref. No. 718	19 августа 2024 г. Исх.№ 718
To: China Railway No.5 Engineering Group Co., Ltd. ***Attn.:*** Mr. Zhang Liang Project Manager	***Кому:*** China Railway No.5 Engineering Group Co., Ltd. Г-ну Чжан Лян Менеджер Проекта
Copy: Ministry of Transport and Communication of the Kyrgyz Republic ***Attn.:*** Mr. Ibraimov Sanjar Head of PIU	***Копия:*** Министерство Транспорта и Коммуникации Кыргызской Республики Г-ну Ибраимову Санжару Руководитель ГРП
Subject: Environmental monitoring	***Отн-но:*** Мониторинг окружающей среды
Dear Mr. Chen Tielian,	Уважаемый г-н Чэнь Телянь,
Within the framework of the ongoing project "CAREC Corridors 1 and 3 Connection Road Section 2B, Epkin – Bashkuugandy" on August 14-15, 2024, T.N. Zhumaliev, local environmental specialist of **Gentek Consult 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. 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. Based on the result of visual monitoring, please, be notified that all the listed below remarks and requirements shall be addressed by August 25, 2024. A report and photographs shall be send to the Consultant:	В рамках реализуемого проекта «Коридоры ЦАРЭС 1 и 3 Пути Соединения (Участок 2В "Автодорога Эпкин [км 89] - Башкууганды [км 159])» 14-15 августа 2024 г. местным специалистом по охране окружающей среды компании «Gentek» Т.Н Жумалиевым был проведен визуальный мониторинг по соблюдению экологических требований на строительных участках, карьеров, отвалов, на территории жилых лагерях и производственных площадок. По результатам данного посещения были выявлены ряд нарушений требований ПУОСКУ, а также Политики по защитным мерам Азиатского Банка Развития. Фотографии прилагаются. На основании результата визуального мониторинга, уведомляем вас о том, что необходимо выполнить нижеследующие замечания устранить в срок до 25-августа 2024 года. Устранить и отправить отчет с фотоматериалами.
1. To park fuel trucks in the camp at km 148+630, where a special parking lot is provided for heavy-duty vehicles in order to avoid explosion and fire; 2. To complete fire extinguishing panels in the camp and production site at km 148+630, as well as at km 106+300; 3. To cover all gas cylinders from direct sunlight, in order to avoid explosion and fire in km 148+630, as well as in km 106+300;	1. Бензовозов в лагере в км 148+630 поставить, где предусмотрена специальная стоянка для большегрузных автомашин во избежание взрыва и пожара; 2. Укомплектовать противопожарные щиты в лагере и производственной площадке в км 148+630, а также в км 106+300; 3. Прикрыть все газовые баллоны от прямого попадания солнца, во избежание взрыва и пожара в км 148+630, а также в км 106+300;

4. On the territory of the camp at km 148 + 630, near the kitchen and shower for local workers, the faucet is broken and the water is constantly flowing, as a result, a puddle has formed. The faucet needs to be repaired urgently.	4. На территории лагеря в км 148+630, рядом кухни и душевой в лагере для местных рабочих сломан кран и вода постоянно течет, вследствие этого образовалась лужа. Срочно нужно отремонтировать кран.
5. To provide workers with PPE	5. Обеспечить рабочих со спец.одеждами
6. To clear the territory of the camps of garbage.	6. Очистить территорию лагерей от мусора
Attachment: Photos – 9 sheets	Приложение: Фотографии – 9 листов
Thanking you. Best regards. Selcuk Mutlu Team Leader	Благодарю Вас. С уважением, Сельчук Мутлу Руководитель группы

Received by / Получил (а) _____ ____/ ____/ 2024 г.
Signature / Подпись *Date / Дата*

Фото 1, 2. На территории лагеря бензовозы с горючим до сих пор стоят возле кухни и жилья рабочего персонала

Photo 1, 2. On the territory of the camp, fuel trucks are still near the kitchen and the dormitory of the working staff

Фото 3. Противопожарные щиты до сих пор не доукомплектованы и отсутствует бочка с песком возле лаборатории

Photo 3. Fire extinguishing panels are still not completed and there is no barrel with sand near the laboratory

Фото 4, 5, 6. Газовые баллоны до сих пор не прикрыты от прямого попадания солнечного луча

Photos 4, 5, 6. Gas cylinders are still not covered from direct sunlight

Фото 7,8. На территории лагеря в км 148+630, рядом кухни и душевой в лагере для местных рабочих сломан кран и вода постоянно течет, вследствие этого образовалась лужа, тем самым загрязняя окружающую среду

Photo 7,8. On the territory of the camp at km 148+630, next to the kitchen and shower for local workers, the faucet is broken and the water is constantly flowing, as a result, a puddle has formed, thereby polluting the environment

Фото 9. Рабочие работают без.спец.одежды

Photo 9. Workers work without PPE

Фото 10. На территории лагеря км 106+300 мусор не очищен и не убран

Photo 10. On the territory of the camp 106+300 km, the garbage has not been removed

CAREC Corridors, 1 & 3 Connector Road Project, Section 2B	CAREC Corridors, 1 & 3 Connector Road Project, Section 2B
August 30, 2024 Ref. No. 733	30 августа 2024 г. Исх.№ 733
To: China Railway No.5 Engineering Group Co., Ltd. ***Attn.:*** Mr. Zhang Liang Project Manager	***Кому:*** China Railway No.5 Engineering Group Co., Ltd. Г-ну Чжан Лян Менеджер Проекта
Copy: Ministry of Transport and Communication of the Kyrgyz Republic ***Attn.:*** Mr. Ibraimov Sanjar Head of PIU	***Копия:*** Министерство Транспорта и Коммуникации Кыргызской Республики Г-ну Ибраимову Санжару Руководитель ГРП
Subject: Environmental monitoring	***Отн-но:*** Мониторинг окружающей среды
Dear Mr. Chen Tielian,	Уважаемый г-н Чэнь Телянь,
Within the framework of the ongoing project "CAREC Corridors 1 and 3 Connection Road Section 2B, Epkin – Bashkuugandy" on August 27-28, 2024, T.N. Zhumaliev, local environmental specialist of **Gentek Consult 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. 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. Based on the result of visual monitoring, please, be notified that all the listed below remarks and requirements shall be addressed by September 10, 2024. A report and photographs shall be send to the Consultant:	В рамках реализуемого проекта «Коридоры ЦАРЭС 1 и 3 Пути Соединения (Участок 2В "Автодорога Эпкин [км 89] - Башкууганды [км 159])» 27-28 августа 2024 г. местным специалистом по охране окружающей среды компании «**Gentek Consult LTD**» Т.Н Жумалиевым был проведен визуальный мониторинг по соблюдению экологических требований на строительных участках, карьеров, отвалов, на территории жилых лагерях и производственных площадок. По результатам данного посещения были выявлены ряд нарушений требований ПУОСКУ, а также Политики по защитным мерам Азиатского Банка Развития. Фотографии прилагаются. На основании результата визуального мониторинга, уведомляем вас о том, что необходимо выполнить нижеследующие замечания устранить в срок до 10 сентября 2024 года. Отправить отчет и фотоматериалы:
The following are the comments that you ignore, although they were mentioned in previous letters: 1. Fire extinguishing panels are incomplete in the camp and production site at km 148+630, as well as at km 106+300; 2. All gas cylinders are not covered in order to prevent explosion and fire;	***Ниже указаны замечания, которые игнорируется вами, хотя они были указаны и в предыдущих письмах:*** 1. 1. Недоукомплектуются противопожарные щиты в лагере и производственной площадке в км 148+630, а также в км 106+300; 2. 2. Не прикрыты все газовые баллоны во избежание взрыва и пожара;

3. The faucets in the men's toilet have still not been repaired in the camp at km 148+630, there is a basin of water nearby.	3. Смесители в мужском туалете в лагере в км 148+630 до сих пор не починили, рядом таз с водой
4. Not all workers are provided with special clothing.	4. Не все работники обеспечены спец.одеждами
5. The territory of the production site is not properly cleared of garbage.	5. Территория производственной площадки не убирается от мусора должным образом
Attachment: Photos 7 sheets	Приложение: Фотографии – 7 листа
Thanking you. Best regards. Selcuk Mutlu Team Leader	Благодарю Вас. С уважением, Сельчук Мутлу Руководитель группы

Received by / Получил (а) _____ ___/___/ 2024 г.
Signature / Подпись *Date / Дата*

Фото 1,2,3. Противопожарные щиты до сих пор не доукомплектованы и отсутствуют бочки с песком

Photos 1,2,3. Fire extinguishing panels are still not fully equipped and there is no sand barrels

Фото 4. Газовые баллоны до сих пор не прикрыты от прямого попадания солнечных лучей

Photo 4. Gas cylinders are still not covered from direct sunlight

Фото 5. На территории лагеря в км 148+630, в мужском туалете сломан кран и рабочим приходится мыть руки из таза

Photo 5. On the territory of the camp at km 148+630, the faucet is broken in the men's toilet and workers have to wash their hands in a basin

Фото 6,7. Рабочие работают без.спец.одежды

Photo 6,7. Workers work without special clothing.

Фото 8,9. Каски рабочих почему-то наполнены горючими маслами и тряпками

Photo 8,9. For some reason, the workers' helmets are filled with flammable oils and rags.

Фото 10. Территория производственной площадки в км 106+300 не убирается от мусора

Photo 10. The territory of the production site at km 106+300 is not cleared of garbage

CAREC Corridors, 1 & 3 Connector Road Project, Section 2B	**CAREC Corridors, 1 & 3 Connector Road Project, Section 2B**
Date: September 16, 2024	***Дата:*** 16 сентября 2024 г.
Ref. No. CR5-770	***Исх. №*** CR5-770
To: China Railway No.5 Engineering Group Co., Ltd. ***Attn.:*** Mr. Chen Tielian Project Manager	***Кому:*** China Railway No.5 Engineering Group Co., Ltd. Г-ну Чэнь Телянь Менеджер Проекта
Copy: Ministry of Transport and Communication of the Kyrgyz Republic ***Attn.:*** Mr. Ibraimov Sanjar Head of PIU	***Копия:*** Министерство Транспорта и Коммуникации Кыргызской Республики Г-ну Ибраимову Санжару Руководитель ГРП
Subject: Environmental monitoring	***Отн-но:*** Мониторинг окружающей среды
Dear Mr. Chen Tielian,	Уважаемый г-н Чэнь Телянь,
Within the framework of the ongoing project "CAREC Corridors 1 and 3 Connection Road Section 2B, Epkin – Bashkuugandy" on September 13-14, 2024, T.N. Zhumaliev, local environmental specialist of **Gentek Consult 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. 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. Based on the result of visual monitoring, please, be notified that all the listed below remarks and requirements shall be addressed by September 26, 2024. A report and photographs shall be send to the Consultant:	В рамках реализуемого проекта «Коридоры ЦАРЭС 1 и 3 Пути Соединения (Участок 2В "Автодорога Эпкин [км 89] - Башкууганды [км 159])» 13-14 сентября 2024 г. местным специалистом по охране окружающей среды компании «**Gentek Consult LTD**» Т.Н Жумалиевым был проведен визуальный мониторинг по соблюдению экологических требований на строительных участках, карьеров, отвалов, на территории жилых лагерях и производственных площадок. По результатам данного посещения были выявлены ряд нарушений требований ПУОСКУ, а также Политики по защитным мерам Азиатского Банка Развития. Фотографии прилагаются. На основании результата визуального мониторинга, уведомляем вас о том, что необходимо выполнить нижеследующие замечания устранить в срок до 26 сентября 2024 года. Отправить отчет и фотоматериалы:
The following are the comments that you ignore, although they were mentioned in previous letters: 1. Fire extinguishing panel is incomplete in the camp at km 148+630, near the laboratory; 2. All gas cylinders near the kitchen for local residents are not covered, at km 148+630; 3. The faucet in the men's toilet has still been repaired, but the water has not been turned on, there	***Ниже указаны замечания, которые игнорируется вами, хотя они были указаны и в предыдущих письмах:*** 1. Не укомплектуется противопожарный щит в лагере на км 148+630, возле лаборатории; 2. Не прикрыты все газовые баллоны возле кухни для местных жителей, в км 148+630; 3. Смесителя в мужском туалете в лагере в км 148+630 до сих пор починили, но воду не пустили, рядом стоит таз с водой;

is a basin of water next to it in the camp at km 148+630. 4. Not all workers are provided with special clothing. 5. The territory of the amps is not properly cleared of garbage. Attachment: Photos – 5 sheets Thanking you. Best regards. Selcuk Mutlu Team Leader	4. Не все работники обеспечены спец.одеждами 5. Территория лагерей не убирается от мусора должным образом Приложение: Фотографии – 5 листа Благодарю Вас. С уважением, Сельчук Мутлу Руководитель группы

Received by / Получил (а) _____ ___/___/ 2024 г.
Signature / Подпись *Date / Дата*

Фото 1. Противопожарный щит возле лаборатории до сих пор не доукомплектован и отсутствует бочка с песком

Photos 1. Fire extinguishing panel is still not fully equipped and there is no sand barrel next to the laboratory

Фото 3. На территории лагеря в км 148+630, в мужском туалете сломан кран и рабочим приходится мыть руки из таза

Photo 3. In the camp at km 148+630, workers have to wash their hands from the basin in the men's toilet

Фото 4. Рабочие работают без.спец.одежды

Photo 4. Workers work without special clothing.

Фото 5. Территория лагеря в км 106+300 не убирается от мусора должным образом. Внизу лагеря, где родник накопились бытовые отходы, что местные жители возмущены и просят убирать отходов.

Photo 5. The garbage is not removed properly in the camp area at km 106+300. At the end of the camp, where the spring is located, household waste has accumulated, the local residents are outraged and ask to remove the garbage.

CAREC Corridors, 1 & 3 Connector Road Project, Section 2B

Date: September 30, 2024

Ref. No. CR5-783

To: China Railway No.5 Engineering Group Co., Ltd.
Attn.: Mr. Chen Tielian
Project Manager

Copy: Ministry of Transport and Communication of the Kyrgyz Republic
Attn.: Mr. Ibraimov Sanjar
Head of PIU

Subject: Environmental monitoring

Dear Mr. Chen Tielian,

Within the framework of the ongoing project "CAREC Corridors 1 and 3 Connection Road Section 2B, Epkin – Bashkuugandy" on September 28, 2024, T.N. Zhumaliev, local environmental specialist of **Gentek Consult 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.

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.

Based on the result of visual monitoring, please, be notified that all the listed below remarks and requirements shall be addressed by October 10, 2024. A report and photographs shall be send to the Consultant:

On the territory of camps at km106+300 and km148−630, wastewater storage tanks (septic tanks) are overflowing and polluting the environment; they shall be removed by sewage trucks in accordance with the concluded service agreement.

Attachment: Photos – 2 sheets

Thanking you.

Best regards.
Selcuk Mutlu
Team Leader

CAREC Corridors, 1 & 3 Connector Road Project, Section 2B

Дата: 30 сентября 2024 г.

Исх. № CR5-783

Кому: China Railway No.5 Engineering Group Co., Ltd.
Г-ну Чэнь Телянь
Менеджер Проекта

Копия: Министерство Транспорта и Коммуникации Кыргызской Республики
Г-ну Ибраимову Санжару
Руководитель ГРП

Отн-но: Мониторинг окружающей среды

Уважаемый г-н Чэнь Телянь,

В рамках реализуемого проекта «Коридоры ЦАРЭС 1 и 3 Пути Соединения (Участок 2В "Автодорога Эпкин [км 89] - Башкууганды [км 28-сентября 2024 г. местным специалистом по охране окружающей среды компании «**Gentek** » Т.Н Жумалиевым был проведен визуальный мониторинг по соблюдению экологических требований на строительных участках, карьеров, отвалов, на территории жилых лагерях и производственных площадок.

По результатам данного посещения были выявлены ряд нарушений требований ПУОСКУ, а также Политики по защитным мерам Азиатского Банка Развития. Фотографии прилагаются.

На основании результата визуального мониторинга, уведомляем вас о том, что необходимо выполнить нижеследующие замечания устранить в срок до 10-октября 2024 года. Отправить отчет и фотоматериалы:

На территории лагерей км106−300 и км148+630 накопители сточных вод (септики) переполнены и загрязняют окружающую среду, их необходимо вывозит ассенизационными машинами согласно заключенному договору об оказании услуг.

Приложение: Фотографии – 2 листа

Благодарю Вас.

С уважением,
Сельчук Мутлу
Руководитель группы

Received by / Получил (а) _____ ____/ ____/ 2024 г.
Signature / Подпись *Date / Дата*

Фото 1,2. Сточная вода в накопителе переполнена и выходит в наружу, тем самым загрязняя окружающую среду

Photos 1,2. The wastewater in the storage tank is overfilled and flows out, thereby polluting the environment.

CAREC Corridors 1 and 3, Section 2B Epkin-Dyikan (Bashkuugandy), Km 89+500 – 159+200

Environmental Checklist for Camp and Workshop (km 106+300)

Marking form ☑ ☒

Inspected by

day/month/year: 28/10/2024 Time (hour : min): 10:13 — CR № 5 ☑ ☐

Gentek ☑ ☐

Location, km: km 106+300

Weather conditions: ☐ ☐ ☑ Temperature °C: 1 °C

☑ ☒

Note: Wind – 10.1 m/s, S

I - ENVIRONMENT CONDITION – EXAMINATION OF THE CAMP AND WORKSHOP, VISUAL INSPECTION

Description	Marking form Yes ☑	Marking form No ☒	Note
1. Maintenance			
1.1 Was permission received from the aiyl okmotu to exploit the territory for the Camp and Workshop ?	☑	☐	Order 4 of Cholpon Ayil Okmotu, letter 02-1-34/559 dated 14.04.2023
2. Air			
2.1 Have there recently been any grievances regarding air quality?	☐	☒	
2.2 Are dust suppression measures kept ?	☑	☐	
2.3 Are there any signs of open burning?	☐	☒	
3. Water			
3.1 Are workers provided with drinking water?	☑	☐	
3.2 Are the generating wastewater sent to the reservoirs and removed from there to specially designated places (Are the walls of the reservoirs equipped with internal and external waterproofing)?	☑	☐	

3.3 All fuel and chemical storage facilities are on a watertight foundation with a weatherproof roof, enclosed and located away from water bodies.	☑	☐	
3.4 Are fuel storage locations located far from reservoirs and water bodies?	☑	☐	
4 Soil			
4.1 Are waste and unusable machine parts stored on the soil??	☐	☒	
4.2 Is machinery washed and maintained in a specialized place?	☑	☐	
4.3 Are there any signs of soil damage?	☐	☒	
4.4 Have you observed fuel or oil spills during the visit?	☐	☒	
4.5 Does the camp have the equipment and materials to clean up fuel spills?	☑	☐	See photo 4.5
5 Noise			
5.1 Have there recently been any grievances regarding noise level?	☐	☒	
6 Waste management			
6.1 Have the agreements with waste utilization companies been concluded?	☑	☐	Order of Tugol-Sai Aiyl Okmotu № 13b dated 18.04.22
6.2 Installation of garbage cans and provision of everything necessary for their temporary storage until final removal	☑	☐	
6.3 Are containers or barrels marked?	☐	☒	See photo 6.3
6.4 Maintenance of clean and tidy on the territory of the construction camp	☑	☐	
6.5 Sufficient training/instruction of personnel on the rules for storing equipment and materials, as well as the rules for collecting unusable equipment and materials for their subsequent disposal	☑	☐	Trainings were kept on 08/08/2024
6.6 Have you observed improper:			
- storage of wastes?	☐	☒	
- transportation of waste?	☐	☒	
- usage of unapproved locations for the burial of the waste?	☐	☒	
7 Health and safety of the residents/workers			
7.1 Are all sanitary conditions in the camp met?	☑	☐	
7.2 Are workers provided with PPE?	☑	☐	
7.3 Are all places of fuels, lubricants, oils, or non-flammable materials depots with fire extinguishers or "fire shields" with the necessary equipment?	☑	☐	
7.4 Is training provided on personal hygiene and safety related to HIV/AIDS?	☑	☐	23/03/2024 The Contractor has carried out AIDS prevention work

7.5 Are information materials on HIV/AIDS and STD prevention provided to construction workers? (booklets, brochures, posters)	☑	☐	
7.6 Have there been cases of alcohol abuse or drug use among workers?	☐	☒	
7.7 Are the requirements for traffic management met?	☑	☐	
7.8 Are First aid kits available at the camp and workshop?	☑	☐	
7.9 Is there a smoking area in the camp, and is it adequately equipped?	☑	☐	
7.10 Is there a notice board on the camp and workshop with emergency contact details, brochures on first aid, fire safety rules, and rules for using a fire extinguisher, etc?	☑	☐	
7.11 Does the work base (of any type: formal, informal, spontaneous, etc.) create problems for the health of the workers due to improper organization of waste disposal, etc.?	☐	☒	
8 Social issues			
8.1 Are there any inconsistencies concerning matters of:			
- gender;	☐	☒	
- religion;	☐	☒	
- illegal employment;	☐	☒	
9 Other			
9.1 Have there been any other problems spotted during the site visit?	☐	☒	
9.2 Have there been any remedial actions implemented regarding the mentioned-above?	☑	☐	

II - INCONSISTENCIES, MITIGATING MEASURES, INCIDENTS

INCONSISTENCIES

№	The character of discrepancy of ecological factors
6.3	Containers or drums are not marked with the contents which is contrary to the para 2 of Appendix xii SSEMP and Decree of the Government of the Kyrgyz Republic dated August 5, 2015, No. 559 "Procedure for the management of production and consumption waste in the Kyrgyz Republic"

MITIGATING MEASURES

№	Mitigating measures for each discrepancy	Responsible
6.3	Containers must be marked in accordance with the Decree of the Government of the Kyrgyz Republic dated January 15, 2010, No. 9, "On approval of the classifier of hazardous waste and guidelines for determining the hazard class of waste"	Contractor

ECOLOGICAL INCIDENTS AND IMPLEMENTED REMEDIAL ACTIONS

Have there been any ecological incidents during the reporting period?	Yes	☐	No	☒

If the answer is YES, please, describe	Number and date of ecological incident report			
-	№	-	Date	-

Remedial actions taken: Systematic training on occupational health and safety

III - REMARKS AND RECOMMENDATIONS

№	Recommendations for Ecology Management Improvement
1	Ensure that the Contractor's environmental and health and safety officers are consistently on-site, conducting daily toolbox talks for workers, especially those who operate heavy equipment
2	Adhere to the SSEMP Corrective Action Plan, which outlines the implementation measures.

IV - PHOTOS

№	Photo
4.5	

6.3

V - PERSONS, WHO FILLED OUT THIS FORM

Name and Surname	Signature	Company	Position	Date
Olga Syzonenko		Gentek	International Environmental and Social Expert	28/10/2024
Talantbek Zhumaliev		Gentek	National Environmental Specialist	28/10/2024
Nurlan Nurdinov		CR № 5	Environmental Specialist	28/10/2024

CAREC Corridors 1 and 3, Section 2B Epkin-Dyikan (Bashkuugandy), Km 89+500 – 159+200

Environmental checklist for Camp and Workshop (km 148+630)

Marking form ☑ ☒

Inspected by

day/month/year: 28/10/2024 Time (hour : min): 13 :46 — CR № 5 ☑ ☐ — Gentek ☑ ☐

Location, km: km 148+630

Weather conditions: ☑ ☒ | ☐ | ☑ | ☐ Temperature °C: 1 °C

Note: Wind – 9.2 m/s, SW

I - ENVIRONMENT CONDITION – EXAMINATION OF THE CAMP AND WORKSHOP, VISUAL INSPECTION

Description	Marking form Yes ☑	Marking form No ☒	Note
1. Maintenance			
1.1 Was permission received from the aiyl okmotu to exploit the territory for the Camp and Workshop ?	☑	☐	Order of Kuyruchuk Aiyl Okmotu № 52, Resolution No. 3, Act dated 20.12.21, a letter № 02-4/155
2. Air			
2.1 Have there recently been any grievances regarding air quality?	☐	☒	
2.2 Are dust suppression measures kept?	☑	☐	
2.3 Are there any signs of open burning?	☐	☒	
3. Water			
3.1 Are workers provided with drinking water?	☑	☐	
3.2 Are the generating wastewater sent to the reservoirs and removed from there to specially designated places (Are the walls of the reservoirs equipped with internal and external waterproofing)?	☑	☐	

3.3 All fuel and chemical storage facilities are on a watertight foundation with a weatherproof roof, enclosed and located away from water bodies.	☑	☐	
3.4 Are fuel storage locations located far from reservoirs and water bodies?	☑	☐	
4 Soil			
4.1 Are waste and unusable mechanical parts stored on the soil?	☐	☒	
4.2 Is machinery washed and maintained in a specialized place?	☑	☐	
4.3 Are there any signs of soil damage?	☐	☒	
4.4 Have you observed fuel or oil spills during the visit?	☐	☒	
4.5 Does the camp have the equipment and materials to clean up fuel spills?	☐	☒	Partially, see photo 4.5
5 Noise			
5.1 Have there recently been any grievances regarding noise level?	☐	☒	
6 Waste management			
6.1 Have the agreements with waste utilization companies been concluded?	☑	☐	Order of Tugol-Sai Aiyl Okmotu № 13b dated 18.04.22
6.2 Installation of garbage cans and provision of everything necessary for their temporary storage until final removal	☑	☐	
6.3 Are containers or barrels marked?	☐	☒	See photo 6.3
6.4 Maintenance of clean and tidy on the territory of the construction camp	☑	☐	
6.5 Sufficient training/instruction of personnel on the rules for storing equipment and materials, as well as the rules for collecting unusable equipment and materials for their subsequent disposal	☑	☐	Trainings were kept on 08/08/2024
6.6 Have you observed improper:			
- storage of wastes?	☑	☐	See photo 6.4
- transportation of waste?	☐	☒	
- usage of unapproved locations for the burial of the waste?	☐	☒	
7 Health and safety of the residents/workers			
7.1 Are all sanitary conditions in the camp met?	☐	☒	See photo 7.1 There is no water and light in the toilet.
7.2 Are workers provided with PPE?	☐	☒	
7.3 Are all places of fuels, lubricants, oils, or non-flammable materials depots with fire extinguishers or "fire shields" with the necessary equipment?	☑	☐	

7.4 Is training provided on personal hygiene and safety related to HIV/AIDS?	☑	☐	23/03/2024 The Contractor has carried out AIDS prevention work
7.5 Are information materials on HIV/AIDS and STD prevention provided to construction workers? (booklets, brochures, posters)	☑	☐	The Contractor's letter № CR5-ED-598 dated 30/03/2024
7.6 Have there been cases of alcohol abuse or drug use among workers?	☐	☒	
7.7 Are the requirements for traffic management met?	☑	☐	
7.8 Are First aid kits available at the camp and workshop?	☑	☐	
7.9 Is there a smoking area in the camp, and is it adequately equipped?	☑	☐	See photo 7.9
7.10 Is there a notice board on the camp and workshop with emergency contact details, brochures on first aid, fire safety rules, and rules for using a fire extinguisher, etc?	☑	☐	See photo 7.10
7.11 Does the work base (of any type: formal, informal, spontaneous, etc.) create problems for the health of the workers due to improper organization of waste disposal, etc.?	☐	☒	
8 Social issues			
8.1 Are there any inconsistencies concerning matters of:			
- gender;	☐	☒	
- religion;	☐	☒	
- illegal employment;	☐	☒	
9 Other			
9.1 Have there been any other problems spotted during the site visit?	☐	☒	
9.2 Have there been any remedial actions implemented regarding the mentioned-above?	☑	☐	

II – INCONSISTENCIES, MITIGATING MEASURES, INCIDENTS

INCONSISTENCIES

№	The character of discrepancy of ecological factors
6.3	Containers or drums are not marked with the contents which is contrary to the para 2 of Appendix xii SSEMP and Decree of the Government of the Kyrgyz Republic dated August 5, 2015, No. 559 "Procedure for the management of production and consumption waste in the Kyrgyz Republic"
7.1	Poor sanitary and hygienic conditions in the workers' camp, which is contrary to the para 2 of Appendix xii SSEMP
7.2	Not all personnel use PPE, which is contrary to the para 5 of SSEMP

MITIGATING MEASURES

№	Mitigating measures for each discrepancy	Responsible
6.3	Containers must be marked in accordance with the Decree of the Government of the Kyrgyz Republic dated January 15, 2010, No. 9, "On approval of the classifier of hazardous waste and guidelines for determining the hazard class of waste"	Contractor
7.1	Ensure that restrooms are clean and have water, light, soap for hand washing, and toilet paper available	Contractor
7.2	All personnel must be provided with protective clothing and personal protective equipment. Conduct training on the importance of PPE.	Contractor

ECOLOGICAL INCIDENTS AND IMPLEMENTED REMEDIAL ACTIONS

Have there been any ecological incidents during the reporting period? Yes ☐ No ☒

If the answer is YES, please, describe	Number and date of ecological incident report	
-	№ -	Date -

Remedial actions taken: Systematic training on occupational health and safety

III - REMARKS AND RECOMMENDATIONS

№	Recommendations for Ecology Management Improvement
1	Ensure that the Contractor's environmental and health and safety officers are consistently on-site, conducting daily toolbox talks for workers, especially those who operate heavy equipment
2	Improve housekeeping practices and address poor sanitary and hygiene conditions at the workers' camp
3	Adhere to the SSEMP Corrective Action Plan, which outlines the implementation measures.

IV - PHOTOS

№	Photo
6.3	
7.1	 

7.9

7.10

V - PERSONS, WHO FILLED OUT THIS FORM

Name and Surname	Signature	Company	Position	Date
Olga Syzonenko		Gentek	International Environmental and Social Expert	28/10/2024
Talantbek Zhumaliev		Gentek	National Environmental Specialist	28/10/2024
Nurlan Nurdinov		CR № 5	Environmental Specialist	28/10/2024

CAREC Corridors 1 and 3, Section
2B Epkin-Dyikan (Bashkuugandy), Km 89+500 – 159+200

Environmental Checklist for Asphalt plant and Crushing and screening plant (km 148+630)

Marking form ☑ ☒

Inspected by

day/month/year: 28/10/2024 Time (hour : min): 13 :10

CR № 5 ☑ ☐

Gentek ☑ ☐

Location, km: km 148+630

Weather conditions  Temperature °C  1 °C

☑ ☒ ☐ ☑ ☐

Note: Wind – 9.2 m/s, SW

I - ENVIRONMENT CONDITION – EXAMINATION OF THE ASPHALT PLANT AND CRUSHING AND SCREENING PLANT, VISUAL INSPECTION

Description	Marking form Yes ☑	Marking form No ☒	Note
1. Maintenance			
1.1 Has permission been received from the aiyl okmotu to exploit the territory for the asphalt plant and crushing and screening plant?	☑	☐	Order 14 of Kuyruchuk Ayil Okmotu, letter 01-1/434
Crushing and screening plant			
1.2 The unloading of the rock mass into the bunker is carried out by irrigation with water	☑	☐	
1.3 The work of jaw crushers is carried out by irrigation of the working space with water	☑	☐	
1.4 Operation of rotary crushers and screens - classifiers with faulty (leaky) casings or with casings removed is forbidden.	☑	☐	
Asphalt plant			
1.5 Cleaning of separators and filters of the air cleaning system is carried out systematically, avoiding their overflow, according to the instructions	☑	☐	Cleaning was performed in September 2024
1.6 Working with an overfilled cleaning system (separators, filters) or a switched-off system is forbidden.	☑	☐	
1.7 The operation of the furnace of the drying chamber is carried out in the mode recommended by the instruction	☑	☐	
1.8 Burning of production waste: bitumen, asphalt concrete, and emulsion is forbidden	☑	☐	

1.9 Are asphalt plant, crushing screening plant, and construction equipment maintained in satisfactory working condition?	☑	☐	
1.10 Are warehouses of equipment and materials regularly inspected for their contents, condition, and compliance with storage rules?	☑	☐	
1.11 Do places for storing fuels, lubricants, or oils have a concrete foundation and shelters?	☑	☐	
1.12 Do places for temporary storage of used oil and unusable machine parts have concrete foundation and shelters?	☑	☐	
1.13 All fuel and chemical storage facilities are on a watertight foundation with a weatherproof roof, enclosed and located away from water bodies.	☑	☐	
2. Refueling			
2.1 Refueling of equipment is carried out only in designated places	☑	☐	
2.2 Availability of special protective tank in the bottom side when equipment refueling	☑	☐	
2.3 Refueling is carried out by special refueling machine with hose and nozzle.	☑	☐	
3. Spill			
3.1 Is there a spillage of oil from machines ?	☐	☒	
3.2 Are equipment and materials available to clean up fuel spills?	☑	☐	
4. Dust			
4.1 Visible dust clouds due to work of Crushing and screening plant	☐	☒	
4.2 Vehicles drive on small speeds (<10 km/h)	☑	☐	
4.3 Dust suppression measures are kept	☑	☐	
4.4 Equipment of all vehicles used for the transport of building materials with protective coverings (tarpaulin) or other	☑	☐	
5. Solid and hazardous waste			
5.1 Sufficient training/instruction of personnel on the rules for storing equipment and materials, as well as the rules for collecting unusable equipment and materials for their subsequent disposal	☑	☐	Trainings were kept on 08/08/2024
5.2 Is there place for collection of solid waste ?	☑	☐	
5.3 Is there a tank for collection of polluted material ?	☑	☐	
5.4 Are containers or barrels marked?	☐	☒	See photo № 5.4
6. Health and safety of the residents/workers			
6.1 Are all places of fuels, lubricants, oils, or non-flammable materials depots with fire extinguishers or "fire shields" with the necessary equipment?	☑	☐	Provided with fire extinguishers
6.2 Does the Contractor conduct introductory and periodic safety training for workers?	☑	☐	The Contractor conducts introductory training for

			each new employee and conducts occupational safety and health training on an ongoing basis: 08.08.2024, 09.09.2024, 10.10.2024, 12.11.2024.
6.3 Are workers provided with PPE?	☐	☒	See photo № 6.3
6.4 Maintenance of clean and tidy on the territory of the material processing plants	☐	☒	See photo № 6.4
7. **Social issues**			
7.1 Are there any inconsistencies concerning matters of:			
- gender;	☐	☒	
- religion;	☐	☒	
- illegal employment;	☐	☒	
8. **Other**			
8.1 Have there been any other problems spotted during the site visit?	☐	☒	
8.2 Have there been any remedial actions implemented regarding the mentioned-above?	☑	☐	

II - INCONSISTENCIES, MITIGATING MEASURES, INCIDENTS

INCONSISTENCIES

№	The character of discrepancy of ecological factors
5.4	Containers or drums are not marked with the contents which is contrary to para 2 of Appendix xiii SSEMP and Decree of the Government of the Kyrgyz Republic dated August 5, 2015, No. 559 "Procedure for the management of production and consumption waste in the Kyrgyz Republic"
6.3	Not all personnel use PPE, which is contrary to the para 5 of SSEMP
6.4	The asphalt plant area is kept clean, except for the storage area of unusable machine parts, which is contrary to para 2 of Appendix xiii SSEMP.

MITIGATING MEASURES

№	Mitigating measures for each discrepancy	Responsible
5.4	Containers must be marked in accordance with the Decree of the Government of the Kyrgyz Republic dated January 15, 2010, No. 9, "On approval of the classifier of hazardous waste and guidelines for determining the hazard class of waste"	Contractor
6.3	All personnel must be provided with protective clothing and personal protective equipment. Conduct training on the importance of PPE.	Contractor

6.4	Maintenance of clean and tidy on the territory and installation of garbage cans and provision of everything necessary for their temporary storage until final removal	Contractor

ECOLOGICAL INCIDENTS AND IMPLEMENTED REMEDIAL ACTIONS

Have there been any ecological incidents during the reporting period? Yes ☐ No ☒

If the answer is YES, please, describe	Number and date of ecological incident report	
-	№ -	Date -

Remedial actions taken: Systematic training on occupational health and safety

III - REMARKS AND RECOMMENDATIONS

№	Recommendations for Ecology Management Improvement
1	Ensure that the Contractor's environmental and health and safety officers are consistently on-site, conducting daily toolbox talks for workers, especially those who operating heavy equipment
2	Improve housekeeping practices and address poor sanitary and hygiene conditions at the workers' camp
3	Adhere to the SSEMP Corrective Action Plan, which outlines the measures that must be implemented.

IV PHOTO

№	Photo	
5.4		

6.2

6.3

6.4

V - PERSONS, WHO FILLED OUT THIS FORM

Name and Surname	Signature	Company	Position	Date
Olga Syzonenko		Gentek	International Environmental and Social Expert	28/10/2024
Talantbek Zhumaliev		Gentek	National Environmental Specialist	28/10/2024
Nurlan Nurdinov		CR № 5	Environmental Specialist	28/10/2024

CAREC Corridors 1 and 3, Section 2B Epkin-Dyikan (Bashkuugandy), Km 89+500 – 159+200

Environmental Checklist for the Crushing and Screening Plant (km 106+300)

Marking form ☑ ☒

Inspected by

day/month/year: 28/10/2024 Time (hour : min): 10:40

CR № 5 ☑ ☐

Gentek ☑ ☐

Location: km 106+300

Weather conditions: ☀ ⛅ 🌧 Temperature °C: -1 °C

☑ ☒ ☐ ☐ ☑

Note: Wind – 10.1 m/s, S

I - ENVIRONMENT CONDITION – EXAMINATION OF THE CRUSHING AND SCREENING PLANT, VISUAL INSPECTION

Description	Marking form Yes ☑	No ☒	Note
1. Maintenance			
1.1 Has permission been received from the aiyl okmotu to exploit the territory for the crushing and screening plant?	☑	☐	Order 4 of Cholpon Ayil Okmotu, letter 02-1-34/559 dated 14.04.2023
1.2 The unloading of the rock mass into the bunker is carried out by irrigation with water	☑	☐	
1.3 The work of jaw crushers is carried out by irrigation of the working space with water	☑	☐	
1.4 Operation of rotary crushers and screens - classifiers with faulty (leaky) casings or with casings removed is forbidden	☑	☐	
1.5 Is crushing and screening plant, and construction equipment maintained in satisfactory working condition?	☑	☐	
1.6 Are warehouses of equipment and materials regularly inspected for their contents, condition, and compliance with storage rules?	☑	☐	
1.7 Do places for storing fuels, lubricants, or oils have a concrete foundation and shelters?	☑	☐	
1.8 Do places for temporary storage of used oil and unusable machine parts have concrete foundation and shelters?	☑	☐	
1.9 All fuel and chemical storage facilities are on a watertight foundation with a weatherproof roof, enclosed and located away from water bodies.	☑	☐	

2. Refueling			
2.1 Refueling of equipment is carried out only in designated places	☑	☐	
2.2 Availability of special protective tank in the bottom side when equipment refueling	☑	☐	
2.3 Refueling is carried out by special refueling machine with hose and nozzle.	☑	☐	
3. Spill			
3.1 Is there a spillage of oil from machines ?	☐	☒	
3.2 Are equipment and materials available to clean up fuel spills?	☑	☐	
4. Dust			
4.1 Visible dust clouds due to work of Crushing and screening plant	☐	☒	
4.2 Vehicles drive on small speeds (<10 km/h)	☑	☐	
4.3 Dust suppression measures are kept	☑	☐	
4.4 Equipment of all vehicles used for the transport of building materials with protective coverings (tarpaulin) or other	☑	☐	
5. Solid and hazardous waste			
5.1 Sufficient training/instruction of personnel on the rules for storing equipment and materials, as well as the rules for collecting unusable equipment and materials for their subsequent disposal	☑	☐	Trainings were kept on 08/08/2024
5.2 Is there place for collection of solid waste ?	☑	☐	
5.3 Is there a tank for collection of polluted material ?	☐	☒	See photo № 5.3
5.4 Are containers or barrels marked?	☐	☒	See photo № 5.3
6. Health and safety of the residents/workers			
6.1 Are all places of fuels, lubricants, oils, or non-flammable materials depots with fire extinguishers or "fire shields" with the necessary equipment?	☑	☐	
6.2 Does the Contractor conduct introductory and periodic safety training for workers?	☑	☐	
6.3 Are workers provided with PPE?	☑	☐	
6.4 Maintenance of clean and tidy on the territory of the material processing plants	☑	☐	
7. Social issues			
7.1 Are there any inconsistencies concerning matters of:			
- gender;	☐	☒	
- religion;	☐	☒	

- illegal employment:	☐	☒	
8. **Other**			
8.1 Have there been any other problems spotted during the site visit?	☐	☒	
8.2 Have there been any remedial actions implemented regarding the mentioned-above?	☑	☐	

II - INCONSISTENCIES, MITIGATING MEASURES, INCIDENTS

INCONSISTENCIES

№	The character of discrepancy of ecological factors
5.3 and 5.4	Containers or drums are not marked with the contents which is contrary to the para 2 of Appendix xiii SSEMP and Decree of the Government of the Kyrgyz Republic dated August 5, 2015, No. 559 "Procedure for the management of production and consumption waste in the Kyrgyz Republic"

MITIGATING MEASURES

№	Mitigating measures for each discrepancy	Responsible
5.3 and 5.4	Containers must be marked in accordance with the Decree of the Government of the Kyrgyz Republic dated January 15, 2010, No. 9, "On approval of the classifier of hazardous waste and guidelines for determining the hazard class of waste"	Contractor

ECOLOGICAL INCIDENTS AND IMPLEMENTED REMEDIAL ACTIONS

Have there been any ecological incidents during the reporting period? Yes ☐ No ☒

If the answer is YES, please, describe	Number and date of ecological incident report	
-	№ -	Date -

Remedial actions taken: Systematic training on occupational health and safety

III - REMARKS AND RECOMMENDATIONS

№	Recommendations for Ecology Management Improvement
1	Ensure that the Contractor's environmental and health and safety officers are consistently on-site, conducting daily toolbox talks for workers, especially those who operating heavy equipment
2	Adhere to the SSEMP Corrective Action Plan, which outlines the measures that must be implemented.

IV – PHOTOS

№	Photo
5.3	

V - PERSONS, WHO FILLED OUT THIS FORM

Name and Surname	Signature	Company	Position	Date
Olga Syzonenko		Gentek	International Environmental and Social Expert	28/10/2024
Talantbek Zhumaliev		Gentek	National Environmental Specialist	28/10/2024
Nurlan Nurdinov		CR № 5	Environmental Specialist	28/10/2024

CAREC Corridors 1 and 3, Section
2B Epkin-Dyikan (Bashkuugandy), Km 89+500 – 159+200

Environmental Checklist over the Quarry boundaries

				Marking form	☑ ☒
				Inspected by	
day/month/year	28/10/2024	Time (hour : min)	10 :50 – 13:00	CR № 5	☑ ☐
				Gentek	☑ ☐
Quarry № Location, km	№ 6 (km 106+420) № 7 (km 110+900) № 12 (km 148+630) № 13 (km 119+300)				
Weather conditions	☐	☑	☑	Temperature °C	-1 – +1 °C
☑ ☒					
Note	Wind – 9.2-10.1 m/s, S and SW				

I - ENVIRONMENT CONDITION – EXAMINATION OF THE QUARRY, VISUAL INSPECTION

Description	Marking form Yes ☑	No ☒	Note
1. **Removal of surface and depth of Quarry**			
1.1 Has the permit for the usage of materials from the quarry been received?	☑	☐	№ 6 (km 106+420) - № 04-9/12238 dated 03.10.19 and №05-5/323, dated 23.01.24 № 7 (km 110+900) - № 04-9/12238 dated 03.10.19 and №05-5/323, dated 23.01.24 № 12 (km 148+630) - № 04-04/10138 dated 02.08.18 and № 01-6/1721, dated 25.03.23 № 13 (km 119+300) - № 01-6/1721, dated 25.03.23
1.2 Is topsoil removed?	☑	☐	
1.3 Does the upper soil layer storage height at the quarry's extreme boundary exceed 2 m?	☐	☒	
1.4 Is the depth of the Quarry in line with the Quarry development plan?	☑	☐	
1.5 Has the Quarry Rehabilitation Plan been prepared?	☐	☒	

2.	**Refueling**			
2.1	Equipment refueling in the territory of Quarry	☐	☒	
2.2	Availability of special protective tank on the bottom side when equipment refueling	☑	☐	
2.3	Refueling is carried out by a special refueling machine with a hose and nozzle.	☑	☐	
3.	**Spill**			
	In case of spill – Stop the work – Clean up. Machine repair is not allowed at the Quarry site. Machines should be repaired in the camp auto-repair shop.			
3.1	Is there a spillage of oil from machines	☐	☒	
3.2	Are equipment and materials available to clean up fuel spills?	☑	☐	
4.	**Dust**			
4.1	Visible dust clouds due to work at the Quarry	☐	☒	
4.2	Vehicles drive on small speeds at the Quarry site (<10 km/h)	☑	☐	
4.3	Dust suppression measures are kept	☑	☐	
4.4	Equipment of all vehicles used for the transport of building materials with protective coverings (tarpaulin) or other	☑	☐	
5.	**Solid and hazardous waste**			
5.1	Is there a place for the collection of solid waste	☐	☒	See the photo 5.1 (№ 6 – km 106+420, № 7 – km 110+900, № 13 – km 119+300)
5.2	Is there a tank for the collection of polluted material	☐	☒	
6.	**Health and safety of the residents/workers**			
6.1	Does the Contractor conduct introductory and periodic safety training for workers?	☑	☐	
6.2	Are the requirements for traffic management met?	☑	☐	
6.3	Are workers provided with PPE?	☑	☐	
7.	**Social issues**			
7.1	Are there any inconsistencies concerning matters of:			
	- gender;	☐	☒	
	- religion;	☐	☒	
	- illegal employment;	☐	☒	
8.	**Other**			

9.1	Have there been any other problems spotted during the site visit?	☐	☒
9.2	Have any remedial actions been implemented regarding the abovementioned?	☑	☐

II - INCONSISTENCIES, MITIGATING MEASURES, INCIDENTS

INCONSISTENCIES

№	The character of discrepancy of ecological factors
1.5	The Quarry Rehabilitation Plan hasn`t been prepared yet (Appendix vi SSEMP)
5.1	The presence of garbage on the territory of quarries, which is contrary to Appendix vi SSEMP

MITIGATING MEASURES

№	Mitigating measures for each discrepancy	Responsible
1.5	Prepare a Quarry Reclamation Plan. After the reclamation is completed according to the approved plan, a commission consisting of representatives of local authorities and the Territorial Department of Environmental Protection will inspect the work and draw a corresponding report.	Contractor
5.1	It is necessary to maintain cleanliness and order in the quarries' territory.	Contractor

ECOLOGICAL INCIDENTS AND IMPLEMENTED REMEDIAL ACTIONS

Have there been any ecological incidents during the reporting period? Yes ☐ No ☒

If the answer is YES, please, describe	Number and date of ecological incident report	
-	№ -	Date -

Remedial actions taken: Systematic training on occupational health and safety

III - REMARKS AND RECOMMENDATIONS

№	Recommendations for Ecology Management Improvement
1	Ensure that the Contractor's environmental and health and safety officers are consistently on-site, conducting daily toolbox talks for workers, especially those who operate heavy equipment
2	Adhere to the SSEMP Corrective Action Plan, which outlines the implementation measures: Prepare a Quarry Reclamation Plan. After the reclamation is completed according to the approved plan, a commission consisting of representatives of local authorities and the Territorial Department of Environmental Protection will inspect the work and draw a corresponding report.

IV - POTOS

№	Photo
5.1	 № 6 – km 106+420  № 7 – km 110+900  № 13 – km 119+300

V - PERSONS, WHO FILLED OUT THIS FORM

Name and Surname	Signature	Company	Position	Date
Olga Syzonenko		Gentek	International Environmental and Social Expert	28/10/2024
Talantbek Zhumaliev		Gentek	National Environmental Specialist	28/10/2024
Nurlan Nurdinov		CR № 5	Environmental Specialist	28/10/2024

CAREC Corridors 1 and 3, Section
2B Epkin-Dyikan (Bashkuugandy), Km 89+500 – 159+200

Environmental checklist for Road Section

Marking form ☑ ☒

Inspected by

day/month/year: 28/10/2024 Time (hour : min): 09:10 – 15:00

CR № 5 ☑ ☐

Gentek ☑ ☐

Location: km 89+500 – km 159+200

Weather conditions: ☑ ☒ ☐ ☑ ☑

Temperature °C: -1 - +1 °C

Note: Wind – 9.2 – 10.1 m/s, S and SW

I - ENVIRONMENT CONDITION – EXAMINATION OF THE ROAD, VISUAL INSPECTION

Description	Marking form Yes ☑	Marking form No ☒	Note
1. Air			
1.1 Have there recently been any grievances regarding air quality in the road site area?	☐	☒	
1.2 Have any measures been implemented regarding dust pollution?	☑	☐	
1.3 Are the dust-polluted sections of the road irrigated properly?	☑	☐	
1.4 Are the dust-generating materials transported being covered?	☑	☐	
1.5 Are the dust-generating materials transported in properly irrigated condition?	☑	☐	
1.6 Are there any signs of construction trash burning?	☐	☒	
2. Water			
2.1 Have there recently been any grievances regarding water quality in the road site area?	☐	☒	
2.2 Are there any violations of the natural flow?	☐	☒	
2.3 Has the construction trash been noticed near the water bodies?	☐	☒	
2.4 Are there any discharges of petroleum products into the water bodies?	☐	☒	

3. Soil			
3.1 Have there recently been any grievances regarding soil quality in the road site area?	☐	☒	
3.2 Has the construction waste appropriately been collected and utilized?	☑	☐	
3.3 Are fuel filling stations properly operated?	☑	☐	
3.4 Is machinery washed and maintained in a specialized place?	☑	☐	
3.5 Are there any signs of soil damage?	☐	☒	
4. Noise			
4.1 Have there recently been any grievances regarding noise level in the road site area?	☐	☒	
4.2 Limitation of work hours on the roadside near settlements from 7 am to 6 pm.	☑	☐	
4.3 Is the speed limit of 30 km/h within a radius of 500 m from any settlement maintained?	☑	☐	
4.4 Have you observed the equipment that requires repairs to reduce the noise level?	☐	☒	
5. Vibration			
5.1 Have there recently been any grievances regarding vibration level in the road site area?	☐	☒	
5.2 Using vibratory rollers without vibration mode in the area of sensitive receptors	☑	☐	
6. Waste management			
6.1 Have the agreements with construction waste utilization companies been concluded?	☑	☐	Order of Tugol-Sai Aiyl Okmotu № 13b dated 18.04.22
6.2 If there is excess excavated soil, is it properly stored in the permitted area?	☑	☐	
6.3 Have you observed improper:			
- storage of construction wastes and unsuitable materials before their destruction?	☐	☒	
- transportation of construction waste and unsuitable materials?	☐	☒	
- usage of unapproved locations for the burial of the waste materials?	☐	☒	
7. Impact on adjoining land			
7.1 Have there been any problems with pedestrian traffic?	☐	☒	
7.2 Have there been any problems with the passages to the nearby units?	☐	☒	
7.3 Does the Contractor properly and timely respond to requests from aiyl okmotu regarding the needs of the population of nearby villages?	☑	☐	
7.4 Are there evidence of negative impact on the adjoining agricultural lands during the construction?	☐	☒	
8. Vegetation			

8.1 Have the trees been cut down in accordance with the received permits?	☑	☐	
8.2 Have there been detected any unauthorized/accidental removal of vegetation, or damage done to the vegetation?	☐	☒	
8.3 Have the stumps near the construction site been removed?	☑	☐	
8.4 Have the branches and roots of the trees been properly removed?	☑	☐	
8.5 Have the Contractor conducted tree planting activities?	☑	☐	
8.6 Are there any signs of possible diseases on the planted trees?	☐	☒	See Photo № 8.6 On 02.08.2024, an inspection of all plantings was carried out with the participation of a specialist from the Naryn forestry.
8.7 Are planted trees watered promptly?	☑	☐	
9. Fauna			
9.1 Have there been any harm caused to wild animals/agricultural animals?	☐	☒	
9.2 Are animals/birds hit by cars removed in a timely manner?	☑	☐	
10. Health and safety of the residents/workers			
10.1 Does the Contractor conduct introductory and periodic safety training for workers?	☑	☐	See Photo № 10.1 The Contractor conducts introductory training for each new employee and conducts occupational safety and health training on an ongoing basis: 08.08.2024, 09.09.2024, 10.10.2024, 12.11.2024.
10.2 Are the requirements for traffic management met?	☐	☒	See Photo № 10.2 CR5-803 dated 10.28.2024 10.28.2024 an explanatory conversation was held with representatives of the territorial department for ensuring road safety of the Ministry of Internal Affairs of the Kyrgyz Republic
10.3 Are workers provided with PPE?	☑	☐	
10.4 Does the work base (of any type: formal, informal, spontaneous, etc.) create problems for the health of the residents due to improper organization of waste disposal, etc.?	☐	☒	
10.5 Are fuel storage locations located far from reservoirs and water bodies?	☑	☐	

11. Social issues

11.1 Does the construction activity cause a negative impact on land use, historical and architectural sites, and nature preservation funds)?	☐	☒
11.2 Have there been any cases of conflicts between workers and the local population?	☐	☒
11.3 Are there any inconsistencies concerning matters of:		
- gender;	☐	☒
- religion;	☐	☒
- illegal employment;	☐	☒

12. Other

12.1 Have there been any other problems spotted during the site visit?	☐	☒
12.2 Have there been any remedial actions implemented regarding the mentioned-above?	☑	☐

II - INSTRUMENT MEASUREMENTS

Has the instrument monitoring been conducted during the reporting period? (If YES, indicate monitoring unit(s)

Yes ☑ No ☐

Water ☑ Soil ☑ Noise, Vibration ☑ Air ☑

Date of sample collection	Date of laboratory analysis	Are the results available?
14.08.2024	15-22.08.2024	Yes ☑ If the answer is YES, please indicate the number and date of the letter with the protocols: CR5-ED-752 dated 07.09.2024 No ☐ If the answer is NO, please, indicate the date when the results will be provided: -

III - INCONSISTENCIES, MITIGATING MEASURES, INCIDENTS

INCONSISTENCIES

№	The character of discrepancy of ecological factors
8.6 and 8.7	Poor survival of deciduous trees is observed. The reason is unclear.
10.2	Three fatal road traffic accidents.

MITIGATING MEASURES

№	Mitigating measures for each discrepancy	Responsible
8.6 and 8.7	Conduct a re-inspection in spring 2025 (end of March) and replace trees that have not taken root in April 2025.	Contractor

10.2	Perform all actions listed in Engineer's letter CR5 – 803 dated 10.28.2024.	Contractor

ECOLOGICAL INCIDENTS AND IMPLEMENTED REMEDIAL ACTIONS

Have there been any ecological incidents during the reporting period? Yes ☐ No ☒

If the answer is YES, please, describe	Number and date of ecological incident report	
-	№ -	Date -

Remedial actions taken: Systematic training on occupational health and safety

IV - REMARKS AND RECOMMENDATIONS

№	Recommendations for Ecology Management Improvement
1	Ensure that the Contractor's environmental and health and safety officers are consistently on-site, conducting daily toolbox talks for workers, especially those who operating heavy equipment
2	Adhere to the SSEMP Corrective Action Plan, which outlines the measures that must be implemented.

V - PHOTO

№	Photo
8.6	 

10.1

10.2

VI - PERSONS, WHO FILLED OUT THIS FORM

Name and Surname	Signature	Company	Position	Date
Olga Syzonenko		Gentek	International Environmental and Social Expert	28/10/2024
Talantbek Zhumaliev		Gentek	National Environmental Specialist	28/10/2024
Nurlan Nurdinov		CR № 5	Environmental Specialist	28/10/2024

ANNEX – 3 ENVIRONMENTAL INSTRUMENTAL MONITORING RESULTS

ilac-MRA KCA
ISO/IEC 17025
№ KG 417/КЦА.ИЛ.049
От: 12.08.2022 г.
Область аккредитации на сайте: www.kca.gov.kg

КЫРГЫЗ РЕСПУБЛИКАСЫНЫН ЖАРАТЫЛЫШ РЕСУРСТАРЫ ЭКОЛОГИЯ ЖАНА ТЕХНИКАЛЫК КӨЗӨМӨЛ МИНИСТРЛИГИНЕ КАРАШТУУ ЭКОЛОГИЯЛЫК МОНИТОРИНГ ДЕПАРТАМЕНТИ

ДЕПАРТАМЕНТ ЭКОЛОГИЧЕСКОГО МОНИТОРИНГА ПРИ МИНИСТЕРСТВЕ ПРИРОДНЫХ РЕСУРСОВ, ЭКОЛОГИИ И ТЕХНИЧЕСКОГО НАДЗОРА КЫРГЫЗСКОЙ РЕСПУБЛИКИ

*- Вне аккредитации

720005, г. Бишкек, ул. Байтик-Баатыра, 34 тел. (312) 54-61-26

ПРОТОКОЛ ИСПЫТАНИЙ ПРОБ АТМОСФЕРНОГО ВОЗДУХА

№ 377 - 381

1. **Наименование предприятия, организации (заявитель):**
   Нарынская область, КОО "Китайская железнодорожная групповая компания №5" в Кыргызской Республике.

2. **Регистрационный номер и место отбора проб/дата паспорта отбора проб:** 14.08.2024г.

   377 – Новая база км 106+300 справа;
   378 – с. Жумгал (возле школы);
   379 – с. Куйручук (магазин Азамат западная сторона);
   380 – с. Тугол-Сай (магазин Кутман западная сторона);
   381 – с. Тугол-Сай (северо-восточная сторона) АБЗ и ДСУ.

3. **Дата и время отбора проб:**
   14.08.2024 г. с 11 часов 30 минут.

4. **Нормативный документ:**
   РД 52.04.186-89 – Руководство по контролю загрязнения атмосферы.
   СТП ДЭМ 03-01-2021 – Отбор проб атмосферного воздуха.
   СТП ДЭМ 03-02-2021 – Методика выполнения измерений содержания оксида углерода (CO) в атмосферном воздухе с помощью газоанализатора стационарного электрохимического К-100.

5. **Дата(ы) проведения испытаний:**
   15.08-20.08.2024г.

6. **Результаты испытаний:**

КЫРГЫЗ РЕСПУБЛИКАСЫНЫН ЖАРАТЫЛЫШ РЕСУРСТАРЫ, ЭКОЛОГИЯ ЖАНА
ТЕХНИКАЛЫК КӨЗӨМӨЛ МИНИСТРЛИГИНЕ КАРАШТУУ
ЭКОЛОГИЯЛЫК МОНИТОРИНГ ДЕПАРТАМЕНТИ

ДЕПАРТАМЕНТ ЭКОЛОГИЧЕСКОГО МОНИТОРИНГА
ПРИ МИНИСТЕРСТВЕ ПРИРОДНЫХ РЕСУРСОВ, ЭКОЛОГИИ И ТЕХНИЧЕСКОГО НАДЗОРА
КЫРГЫЗСКОЙ РЕСПУБЛИКИ

720005, г. Бишкек, ул. Байтик Баатыра, 34 тел. (312) 54-61-26

ПАСПОРТ НА ПРОБУ
(атмосферный воздух)

1. **Наименование, адрес объекта:** Нарынская область Жумгальский район ФКОО, Китайская железнодорожная инж. групп компания № 5
2. **Основание для отбора:** Письмо № СК5-N-0201 от 05.08.2024г
3. **Порядковый номер и место отбора проб:** 1. Новая база км 106+300 справа 2. с. Жумгал (возле школы), с. Куйручук (напротив кумтан запад ст.), с. Миң-Сай (северо-вост. ст-р) АБЗ и ДСУ
4. **Цель отбора:** Опр-е CO, NO_2, SO_2, взв. вещ
5. **Характер отобранных проб:** разовый
6. **Условия окружающей среды** ясная
7. **Температура перед аспиратором:** 21°С
8. **Атмосферное давление:** 584 мм.рт.ст
9. **Дата и время отбора проб:** 11:30 14.08.2024 г.
10. **НД на отбор проб:** РД 52.04.186-89 Руководство по контролю загрязнения атмосферы

Пробы отобрал: гл. специалист Имиясов Э. И. [подпись]
Представитель ДЭМ
(должность, фамилия)
Присутствовали:
Госинспектор
(должность, фамилия)
Представитель предприятия эколог [подпись] Нурэмов Н
(должность, фамилия)

1 стр из 1

Сканировано с CamScanner

Наименование определяемого показателя	НД на метод испытаний	Код пробы	Данные анализа по точкам, мг/м³	ПДК макс.раз. мг/м³	Испытания провел
Диоксид серы	РД 52.04.186-89	03-377-24	0,091 ±0,011	0,5	Абдылдаева А.Н.
Диоксид азота	РД 52.04.186-89	03-377-24	0,080 ±0,014	0,085	
Оксид углерода	СТП ДЭМ 03-01-2021 СТП ДЭМ 03-02-2021	03-377-24	0,8 ±0,16	5,0	
Взвешенные вещества	РД 52.04.186-89	03-377-24	0,260 ±0,065	0,5	

Наименование определяемого показателя	НД на метод испытаний	Код пробы	Данные анализа по точкам, мг/м³	ПДК макс.раз. мг/м³	Испытания провел
Диоксид серы	РД 52.04.186-89	03-378-24	0,102 ±0,012	0,5	Абдылдаева А.Н.
Диоксид азота	РД 52.04.186-89	03-378-24	0,078 ±0,014	0,085	
Оксид углерода	СТП ДЭМ 03-01-2021 СТП ДЭМ 03-02-2021	03-378-24	0,6 ±0,12	5,0	
Взвешенные вещества	РД 52.04.186-89	03-378-24	0,175 ±0,044	0,5	

Наименование определяемого показателя	НД на метод испытаний	Код пробы	Данные анализа по точкам, мг/м³	ПДК макс.раз. мг/м³	Испытания провел
Диоксид серы	РД 52.04.186-89	03-379-24	0,126 ±0,015	0,5	Абдылдаева А.Н.
Диоксид азота	РД 52.04.186-89	03-379-24	0,074 ±0,013	0,085	
Оксид углерода	СТП ДЭМ 03-01-2021 СТП ДЭМ 03-02-2021	03-379-24	1,0 ±0,2	5,0	
Взвешенные вещества	РД 52.04.186-89	03-379-24	0,437 ±0,011	0,5	

Наименование определяемого показателя	НД на метод испытаний	Код пробы	Данные анализа по точкам, мг/м³	ПДК макс.раз. мг/м³	Испытания провел
Диоксид серы	РД 52.04.186-89	03-380-24	0,113 ±0,014	0,5	Абдылдаева А.Н.
Диоксид азота	РД 52.04.186-89	03-380-24	0,079 ±0,014	0,085	
Оксид углерода	СТП ДЭМ 03-01-2021 СТП ДЭМ 03-02-2021	03-380-24	0,7 ±0,14	5,0	
Взвешенные вещества	РД 52.04.186-89	03-380-24	0,260 ±0,065	0,5	

Наименование определяемого показателя	НД на метод испытаний	Код пробы	Данные анализа по точкам, мг/м³	ПДК макс.раз. мг/м³	Испытания провел
Диоксид серы	РД 52.04.186-89	03-381-24	0,103 ±0,012	0,5	Абдылдаева А.Н.
Диоксид азота	РД 52.04.186-89	03-381-24	0,073 ±0,013	0,085	
Оксид углерода	СТП ДЭМ 03-01-2021 СТП ДЭМ 03-02-2021	03-381-24	0,8 ±0,16	5,0	
Взвешенные вещества	РД 52.04.186-89	03-381-24	0,350 ±0,088	0,5	

Сообщаемая расширенная неопределенность измерения указывается как суммарная стандартная неопределенность измерения, умноженная на коэффициент охвата k=2, который обеспечивает уровень доверия приблизительно 95%. Неопределенность измерений, возникающая в результате отбора проб, включена в расширенную неопределенность измерений.

Заключение*: *По результатам химических испытаний в отобранных пробах атмосферного воздуха не наблюдается превышение по сравнению ПДК (предельно-допустимая концентрация), по всем определяемым показателям. Установленная ГН «ПДК загрязняющих веществ в атмосферном воздухе населенных мест», утв. Постановлением Правительства КР №201 от 11 апреля 2016 г.*

Заведующая СМАВ Абдылдаева А.Н.

Главный специалист ОАМКОП Сагынбек ууду М.

Исполнитель не несет ответственности, если пробы отобраны самим заказчиком
Перепечатка протокола без разрешения ДЭМ запрещена.
СМАВ - сектор мониторинга атмосферного воздуха (промышленных выбросов)
ОАМКОП- отдел аналитик, метрологии и координации отбора проб.

Конец протокола.

КЫРГЫЗ РЕСПУБЛИКАСЫНЫН ЖАРАТЫЛЫШ РЕСУРСТАРЫ, ЭКОЛОГИЯ ЖАНА ТЕХНИКАЛЫК КӨЗӨМӨЛ МИНИСТРЛИГИНЕ КАРАШТУУ ЭКОЛОГИЯЛЫК МОНИТОРИНГ ДЕПАРТАМЕНТИ

ДЕПАРТАМЕНТ ЭКОЛОГИЧЕСКОГО МОНИТОРИНГА ПРИ МИНИСТЕРСТВЕ ПРИРОДНЫХ РЕСУРСОВ, ЭКОЛОГИИ И ТЕХНИЧЕСКОГО НАДЗОРА КЫРГЫЗСКОЙ РЕСПУБЛИКИ

720005, г. Бишкек, ул. Байтик Баатыра, 34 тел. (312) 54-61-22

ПАСПОРТ НА ПРОБУ
(вода)

1. **Наименование, адрес объекта:** Нарынская область, Жумгальский район, ФКОО, Китайская железнодорожная инж. групп. компания № 5
2. **Основание для отбора:** Письмо № СК5-Л-02.01 от 05.08.2024 г
3. **Порядковый номер и место отбора проб:** 1. река Чолок возле ДСУ км 106+300 справа 2. БСР км 140+600 с. Куйручук 3. Ирригационный канал км 141+874 с. Куйручук 4 речка Туголсай нет воды
4. **Цель отбора:** Опр-е качества воды
5. **Характер отобранных проб:** разовый
6. **Условия окружающей среды** ясная
7. **Дата отбора проб** 14.08.2024 11:35
8. **НД:** *ГОСТ 31861-2012 "Вода. Общие требования к отбору проб"; ПНД Ф 12.15.1-08 Методические указания по отбору проб для анализа сточных вод.*

Пробы отобрал: гл. специалист Минясов Э. [подпись]
Представитель ДЭМ
(должность, фамилия)
Присутствовали:
Госинспектор
(должность, фамилия)
Представитель предприятия Эколог [подпись] Нурдинов И.
(должность, фамилия)

1 стр из 1

Сканировано с CamScanner

ISO/IEC 17025
№ KG 417/КЦА.ИЛ.049
От: 12.08.2022 г.
Область аккредитации
на сайте: www.kca.gov.kg

* -Вне аккредитации

ДЕПАРТАМЕНТ ЭКОЛОГИЧЕСКОГО МОНИТОРИНГА
ПРИ МИНИСТЕРСТВЕ ПРИРОДНЫХ РЕСУРСОВ, ЭКОЛОГИИ И
ТЕХНИЧЕСКОГО НАДЗОРА КЫРГЫЗСКОЙ РЕСПУБЛИКИ

КЫРГЫЗ РЕСПУБЛИКАСЫНЫН ЖАРАТЫЛЫШ РЕСУРСТАРЫ,
ЭКОЛОГИЯ ЖАНА ТЕХНИКАЛЫК КӨЗӨМӨЛ
МИНИСТРЛИГИНЕ КАРАШТУУ
ЭКОЛОГИЯЛЫК МОНИТОРИНГ ДЕПАРТАМЕНТИ

720005, г. Бишкек, ул. Байтик-Баатыра, 34 тел. (312) 54-61-26

ПРОТОКОЛ ИСПЫТАНИЙ
ПРОБ ВОДЫ

№ 508 – 510

1. **Наименование предприятия, организации (заявитель):**
   Нарынская область, КОО "Китайская железнодорожная групповая компания №5" в Кыргызской Республике.

2. **Регистрационный номер и место отбора проб/дата паспорта отбора проб:** *14.08.2024 г.*

   508 – р. Чалай возле ДСУ км 106+300 справа;
   509 – БСР км 140+050 (с. Куйручук);
   510 – Ирригационный канал км 141+874 (с. Куйручук).

3. **Дата и время отбора проб:**
   14.08.2024 г. с 11:35 часов.

4. **Нормативный документ:**
   Правила охраны поверхностных вод КР от 14 марта 2016-год №128; ГОСТ 31861-2012 Вода. Общие требования к отбору проб.

5. **Дата(ы) проведения испытаний:**
   15.08 – 22.08.2024 г.

6. **Результаты испытаний:**

№ п/п	Наименование определяемого показателя	Ед. изм.	Данные анализа по точкам			ПДК		НД на метод испытаний	Испытания провел
			01-508-24	01-509-24	01-510-24	+	++		
1	Прозрачность	см	45,00	15,20	42,00	-		СЭВ ч.1 М. 1977*	Абдыралиева А.А.
2	Взвешенные вещества	мг/л	2,80±0,84	26,00±5,20	3,60±1,08	Увел. 0,25/0,75		ПНД Ф14.1:2:3.110-97	
3	Нефтепродукты	мг/л	0,021±0,007	0,036±0,013	0,040±0,014	0,05	0,3	ПНД Ф 14.1:2:4.128-98	Кутманбаева Г.К. Абдыралиева А.А.
4	Биохимическое потребление кислорода ($БПК_5$)	мгО/л	3,29±0,86	5,54±0,72	4,06±1,06	3,0	4,0	ПНД Ф 14.1:2:3:4.123-97	Абдыралиева А.А.

Сообщаемая расширенная неопределенность измерения указывается как суммарная стандартная неопределенность измерения, умноженная на коэффициент охвата k=2, который обеспечивает уровень доверия приблизительно 95%. Неопределенность измерений, возникающая в результате отбора проб, включена в расширенную неопределенность измерений.

Заключение*: *По результатам химических испытаний в отобранных пробах воды наблюдается превышение по сравнению ПДК (предельно-допустимая концентрация) для культурно бытовой категории по следующим показателям. По $БПК_5$ в точке №509 – 1,4 раза. Остальные испытания в пределах установленных норм. Предельно допустимые концентрации химических веществ в воде водных объектов хозяйственно-питьевого и культурно бытового водопользования. Утв. Постановление Правительства КР №201 от 11 апреля 2016г.*

Заведующая ОМВР Кутманбаева Г. К.

Главный специалист ОАМКОП Сагынбек уулу М.

Испытания не несут ответственности, если проба отобрана самим заказчиком
Перепечатка протокола без разрешения ЦЭМ запрещена.
ОМВР – Отдел мониторинга водных ресурсов (поверхностных и сточных вод)
ОАМКОП- Отдел аналитик, метрологии и координации отбора проб.

Конец протокола.

ПРОФИЛАБ
оперативная лаборатория

ISO/IEC 17020
№KG 417/КЦА.ОК.095
от: 21.08.2023 г.
область аккредитации
на сайте: www.kca.gov.kg

ОсОО «Профи.lаб» г. Бишкек,
ул. Тоголок-Молдо, 60[а] каб. 319.

тел. 0312 591461
e-mail: profilab.ltd@mail.ru

ПРОТОКОЛ ИЗМЕРЕНИЯ ШУМА

№ 20 от «16» августа 2024г.

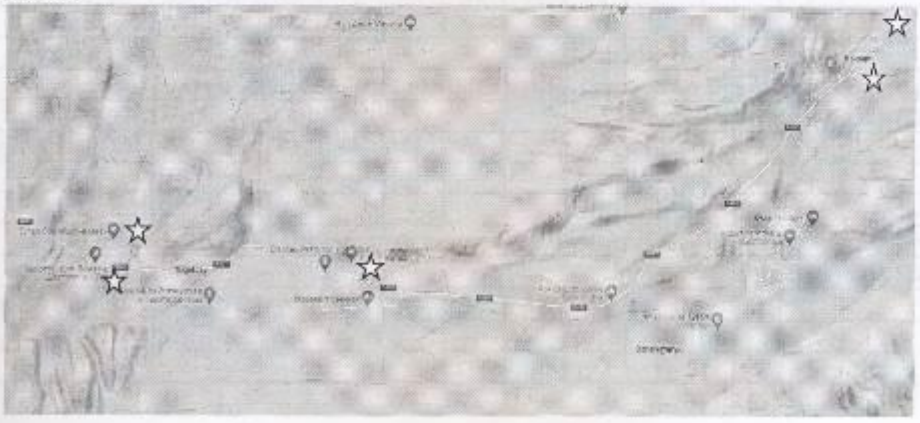
1. Юридическое лицо, индивидуальный предприниматель или физическое лицо, где производятся измерения, адрес: **ФКО «Китайская железнодорожная инженерная групповая компания №5» в КР. Нарынская область, Жумгалский и Кочкорский район.**
2. Объект, где производятся измерения: : **Автодорога Жумгал-Кочкор км 89+500 с. Эпкин- км 159+200 Дыйкан**
(наименование, фактический адрес)
3.Основание для проведения измерения: **Договор №6/22**
4. Наименование средств измерений и сведения о государственной калибровке измеряемого прибора:

Наименование средства измерения	Номер	Сертификат о калибровке		Меж калибровочный интервал
		номер	Дата	
Экофизика - 110А	**№АВ 130044**	**№ К0037-0503/24**	**05.03.2024 г.**	**12 месяцев**

5. Нормативная документация, в соответствии с которой проводились измерения:
ГОСТ 20444-2014. Транспортные потоки. Методы определения шумовой характеристики., ГОСТ 32847-2014 Дороги автомобильные общего пользования. Требования к проведению экологических изысканий.

6. Нормативная документация на нормы:
7. Условие окружающей среды: Температура: 20°С
Влажность: 45%

8. Источники физических факторов и их характеристики: **Транспортный поток**
9. Эскиз:



Места где были произведены замеры. Контрольная точка- ☆
10. Дата произведения измерения: «14» августа 2024 г

Результаты измерений:

№	Место измерений	Характер шума						Уровни звукового давления в дБ в октавных полосах со среднегеометрическими частотами в Гц									Уровень звука (ДБА)
		По спектру		По временным													
		Широкопол.	Тональный	Постоянный	Колебт.	Прерывистый	импульсный	31,5	63	125	250	500	1000	2000	4000	8000	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	Новая База 106+300км. Время 11:00																
	Дата 04.06.24																
1	Leq		+	+				65	68	53	54	47	45	43	31	26	57 факт
	Slow max																70
	с. Жумгал, рядом со школой на дороге. Левая сторона , км- 129+400. Время 11:40																
	Широта: 42° 42′33; долгота: 75°50′44″.																
2	Leq		+	+				47	50	48	52	44	47	35	30	23	56 факт
	Slow max																63
	с. Куйручук, рядом с магазином "Азамат" .западная сторона км 144+000. Время 12:20																
	Широта: 42° 1′30; долгота: 74°58′35″.																
3	Leq		+	+				50	56	48	46	41	38	34	27	22	52 факт
	Slow max																62
	Северо-восточная сторона АБЗ и ДСУ. С. Тугол-Сай 149+000. Время 13:20																
	Широта: 41° 59′33″; Долгота: 74°45′51″.																
4	Leq		+	+				47	67	45	40	39	42	41	37	30	64 факт
	Slow max																71
	с. Тугол Сай, рядом с магазином «Кутман» южная сторона дороги 151+000км. Время 13:40																
	Широта: 41°58′56; долгота: 74°49′49″.																
5	Leq		+	+				49	53	45	37	43	37	30	23	21	40 факт
	Slow max																58
	Новая База 106+300км. Время 15:20																
6	Leq		+	+				64	66	50	52	50	45	45	30	25	55 факт
	Slow max																68
	с. Жумгал, рядом со школой на дороге. Левая сторона , км- 129+400. Время 16:10																
	Широта: 42° 42′33; долгота: 75°50′44″.																
7	Leq		+	+				45	52	46	42	40	40	31	32	21	53 факт
	Slow max																65
	с. Куйручук, рядом с магазином "Азамат" .западная сторона км 144+000. Время 16:50																
	Широта: 42° 1′30; долгота: 74°58′35″.																
8	Leq		+	+				48	48	50	43	38	36	31	30	23	50 факт
	Slow max																61

Результаты измерений:

№	Место измерений	Характер шума						Уровни звукового давления в дБ в октавных полосах со среднегеометрическими частотами в Гц									Уровень звука (ДБА)
		По спектру		По временным													
		Широкопол.	Тональный	Постоянный	Колебл.	Прерывистый	импульсный	31,5	63	125	250	500	1000	2000	4000	8000	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	Северо-восточная сторона АБЗ и ДСУ. С. Тугол-Сай 149+000. Время 17:30																
	Широта: 41° 59′33″; Долгота: 74°45′51″.																
9	Leq		+	+				51	50	45	45	39	40	35	30	23	59 факт
	Slow max																68
	с. Тугол Сай, рядом с магазином «Кутман» южная сторона дороги 151+000км. Время 18:10																
	Широта: 41°58′56; долгота: 74°49′49″.																
10	Leq		+	+				50	43	43	50	41	39	35	33	26	42 факт
	Slow max																54
	с. Тугол Сай, рядом с магазином «Кутман» южная сторона дороги 151+000км. Время 19:30																
	Широта: 41°58′56; долгота: 74°49′49″.																
11	Leq		+	+				53	45	40	48	40	36	32	33	25	45 факт
	Slow max																50
	Северо-восточная сторона АБЗ и ДСУ. С. Тугол-Сай 149+000. Время 19:50																
	Широта: 41° 59′33″; Долгота: 74°45′51″.																
12	Leq		+	+				49	45	45	40	39	35	32	30	26	46 факт
	Slow max																59
	с. Куйручук, рядом с магазином "Азамат" .западная сторона км 144+000. Время 20:30																
	Широта: 42° 1′30; долгота: 74°58′35″.																
13	Leq		+	+				51	46	42	40	38	35	30	26	22	54 факт
	Slow max																60
	с. Жумгал, рядом со школой на дороге. Левая сторона , км- 129+400. Время 21:10																
	Широта: 42° 42′33; долгота: 75°50′44″.																
14	Leq		+	+				53	49	50	46	40	36	36	32	25	51 факт
	Slow max																63
	Новая База 106+300км. Время 22:00																
15	Leq		+	+				56	51	48	50	43	40	35	30	23	54 факт
	Slow max																62

Заключение по результатам замеров: **На момент проведения замеров уровень шума составляло в дневное время от 40 дБа до 64 дБа.**

Должность	ФИО	Подпись
Генеральный директор	Буланбеков И. А.	
Технический менеджер/инженер	Нуриддин уулу Т.	

МП

Протокол составлен в двух экземплярах: 1-й экземпляр выдается по месту требования;
2-й экземпляр остается в лаборатории.
Общее количество страниц 3: страница 3
Срок хранения протокола: 4 года
Примечание: Результаты протокола соответствуют на момент проведённых измерений.
Перепечатка протокола без разрешения начальника лаборатории запрещена.
Результаты измерений относятся только данным объектам.
Конец протокола

ПРОФИЛАБ
оперативная лаборатория

ISO/IEC 17020
№KG 417/КЦА.ОК.095
от: 21.08.2023 г.
область аккредитации
на сайте: www.kca.gov.kg

ОсОО «ПрофиЛаб» г. Бишкек,
ул. Тоголок-Молдо, 60' каб. 319.

тел. 0312 591461
e-mail: profilab.ltd@mail.ru

ПРОТОКОЛ ИЗМЕРЕНИЯ ВИБРАЦИИ

№ 16 от «16» августа 2024г.

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: **Автодорога Жумгал-Кочкор км 89+500 с. Эркин- км 159+200 Дыйкан**

(наименование, фактический адрес)

3.Основание для проведения измерения: **Договор №6/22**

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

Наименование средства измерения	Номер	Сертификат о калибровке		Меж калибровочный интервал
		номер	Дата	
Экофизика - 110А	**№АВ 130044**	**№ К0037-0503/24**	**05.03.2024 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. Требования к проведению измерений на рабочих местах»./ГОСТ 12.1.012-2004**

6. Нормативная документация на нормы: **Санитарные нормы 2.2.4./2.1.8.566-96. «Производственная вибрация, вибрация в помещениях, жилых и общественных зданиях»**

7. Условие окружающей среды: Температура: 20°С

Влажность: 45%

8. Источники физических факторов и их характеристики: **Транспортный поток**

9. Эскиз:

Места где были произведены замеры. Контрольная точка- ☆

10. Дата произведение измерения: «14» августа 2024 г

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			Локальная							Частотная коррекция W_m (дБ)	
		Транспортная	Транспортно-технологическая	Технологическая		2	4	8	16	31,5	63		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Новая База 106+300км. Время 11:10												
	Дата 14.08.24												
1	Leq					103	100	68	59	63	61	**89**	Уровень вибрации
	Slow max	+										**95**	
	с. Жумгал, рядом со школой на дороге. Левая сторона , км- 129+400. Время 11:50												
	Широта: 42° 42′33; долгота: 75°50′44″.												
2	Leq					94	91	88	85	59	59	**91**	Уровень вибрации
	Slow max	+										**98**	
	с. Куйручук, рядом с магазином "Азамат" .западная сторона км 144+000. Время 12:30												
	Широта: 42° 1′30; долгота: 74°58′35″.												
3	Leq					97	94	92	90	92	91	**97**	Уровень вибрации
	Slow max	+										**101**	
	Северо-восточная сторона АБЗ и ДСУ. С. Тугол-Сай 149+000. Время 13:30												
	Широта: 41° 59′33″; Долгота: 74°45′51″.												
4	Leq					95	92	89	86	59	59	**89**	Уровень вибрации
	Slow max	+										**95**	
	с. Тугол Сай, рядом с магазином «Кутман» южная сторона дороги 151+000км. Время 13:50												
	Широта: 41°58′56; долгота: 74°49′49″.												
5	Leq					95	92	89	86	67	76	**88**	Уровень вибрации
	Slow max	+										**94**	
	Новая База 106+300км. Время 15:30												
6	Leq					104	100	70	55	52	60	**88**	Уровень вибрации
	Slow max	+										**94**	
	с. Жумгал, рядом со школой на дороге. Левая сторона , км- 129+400. Время 16:20												
	Широта: 42° 42′33; долгота: 75°50′44″.												
7	Leq					95	92	87	84	60	62	**90**	Уровень вибрации
	Slow max	+										**95**	
	с. Куйручук, рядом с магазином "Азамат" .западная сторона км 144+000. Время 17:00												
	Широта: 42° 1′30; долгота: 74°58′35″.												
8	Leq					96	93	90	84	60	60	**91**	Уровень вибрации
	Slow max	+										**96**	

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			Локальная							Частотная коррекция W_m (дБ)	
		Транспортная	Транспортно-технологическая	Технологическая		2	4	8	16	31,5	63		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Северо-восточная сторона АБЗ и ДСУ. С. Тугол-Сай 149+000. Время 17:40												
	Широта: 41° 59′33″; Долгота: 74°45′51″.												
9	Leq	+				96	91	86	81	62	61	**90**	Уровень вибрации
	Slow max											**96**	
	с. Тугол Сай, рядом с магазином «Кутман» южная сторона дороги 151+000км. Время 18:00												
	Широта: 41°58′56; долгота: 74°49′49″.												
10	Leq	+				98	93	84	80	61	59	**89**	Уровень вибрации
	Slow max											**94**	
	с. Тугол Сай, рядом с магазином «Кутман» южная сторона дороги 151+000км. Время 19:40												
	Широта: 41°58′56; долгота: 74°49′49″.												
11	Leq	+				96	95	90	85	61	58	**91**	Уровень вибрации
	Slow max											**95**	
	Северо-восточная сторона АБЗ и ДСУ. С. Тугол-Сай 149+000. Время 20:00												
	Широта: 41° 59′33″; Долгота: 74°45′51″.												
12	Leq	+				95	93	86	80	60	56	**92**	Уровень вибрации
	Slow max											**95**	
	с. Куйручук, рядом с магазином "Азамат" .западная сторона км 144+000. Время 20:40												
	Широта: 42° 1′30; долгота: 74°58′35″.												
13	Leq	+				94	90	85	80	62	59	**91**	Уровень вибрации
	Slow max											**95**	
	с. Жумгал, рядом со школой на дороге. Левая сторона , км- 129+400. Время 21:20												
	Широта: 42° 42′33; долгота: 75°50′44″.												
14	Leq	+				97	92	86	80	61	57	**93**	Уровень вибрации
	Slow max											**97**	
	Новая База 106+300км. Время 22:10												
15	Leq	+				95	90	85	79	62	55	**89**	Уровень вибрации
	Slow max											**92**	

Заключение по результатам замеров: По результатам инструментальных замеров уровень вибрации от транспортного потока на автодорогах составляет от 88 дБ до 97 дБ.

Должность	ФИО	Подпись
Генеральный директор	Буланбеков И. А.	
Технический менеджер/Инженер	Нуриддин уулу Т.	

Протокол составлен в двух экземплярах: 1-й экземпляр выдается по месту требования;
2-й экземпляр остается в лаборатории.
Общее количество страниц 3: страница 3
Срок хранения протокола: 4 года

Примечание: Результаты протокола соответствуют на момент проведённых измерений.
Перепечатка протокола без разрешения начальника лаборатории запрещена.
Результаты измерений относятся только данным объектам.

Конец протокола

ANNEX – 4 POST-CONSTRUCTION ENVIRONMENTAL AUDIT REPORT EPKIN DYIKAN

Post-Construction Environmental Audit Report

Project Number: 48401-008
Loan Number: ADB Loan 3432-KGZ (SF)
Grant Number: 0496-KGZ (SF)

Post-Construction Environmental Audit Report
January 2025

Kyrgyz Republic:

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

Prepared by:
Olga Syzonenko, International Environmental Consultant,
Gentek International Engineering and Consulting Ltd.
Jumaliev Talantbek, Local environmental specialist,
Gentek International Engineering and Consulting Ltd.
Bishkek, Kyrgyzstan: January 2025

Prepared for:

Ministry of Transport and Communications of the Kyrgyz Republic

Approved by: [Name and signature of Executive Agency staff]

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 MNRETS 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
OHS	-	Occupational Health and safety
LLC	-	Limited Liability Company
HCHSPP	-	Historical and Cultural Heritage Site Protection Project
PPE	-	Personal Protective Equipment
SCIESU under GKR	-	State Committee for Industry, Energy, and Subsoil Use under the Government of the Kyrgyz Republic

Table of Contents

List of Tables:

List of Figures:

3. INTRODUCTION

207. The post-construction environmental audit report is an important tool to ensure the quality and effectiveness of ADB-financed projects.

208. The report has been prepared to comply with ADB's Environmental and Social Framework.

209. ADB is committed to sustainable development. An environmental audit report after construction helps determine whether the project's objectives have been achieved and how it has impacted the environment and the community.

210. This report summarizes the findings of the environmental and social audit conducted following the completion of construction activities for the CAREC Transport Corridor 1 and 3 Connection Road Project (Section 2B, Epkin-Dyikan [Bashkugandy], km 89+500 to km 159+200).

211. The audit focuses on adherence to the Site Specific Environmental Management Plan (SSEMP) and national environmental legislation, identifying lessons learned and recommending future improvements.

212. Analyzing the results after the project is completed allows you to identify strengths and weaknesses, which helps improve future projects and procedures. Evaluating the results allows better risk management and prevents possible problems in the future.

213. This environmental audit was prepared based on the environmental checklists of the CSC (Appendix 1).

214. The project marks significant progress in regional connectivity and sustainable infrastructure development, focusing on minimizing environmental impacts and enhancing socio-economic benefits for local communities. Analyzing the achievements and areas requiring further improvement is crucial to ensuring optimal outcomes and setting a benchmark for future projects.

4. PROJECT DESCRIPTION.

2.3 Brief overview of the project, construction program, and activities.

2.3.1 Project Section Location and Basic Design.

215. 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 (Bashkugandy) (Km: 159+200) Project.

216. 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's capital and the country's second-largest town, Osh. Joining 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.

217. The project road Epkin (89 + 500 km) - Dyikan (Bashkugandy) (159 + 200 km) is a 70-kilometer highway from east to west. This section follows the existing road to Bashkugandy (km 159). The section belongs to the Naryn region and crosses a small western part of the Kochkor district, but most is 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

218. The road runs through the Kochkor Valley and ascends to about 2600 m; the highest point is on the Kyzart Pass, after which it descends to the Jumgal depression. The section runs west to Bashkugandy village and 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 agricultural land 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 passing point between mountain ranges running parallel east to west of the Naryn Region. The area is hilly and mountainous and covered with grasses suitable for grazing.

219. The main works include earthworks, culvert construction, reconstruction of the bridge in Tugol-Sai village (km 148+850), and asphalt pavement. The work to improve drainage systems includes rehabilitating and replacing most deteriorated irrigation culverts and building new drainage structures.

220. Construction work is carried out mainly within the existing road's right-of-way, thus minimizing environmental impact. The Project includes several related activities, such as developing quarries (15 quarries), operating the asphalt concrete plant (production site at km 148+380) and two crushing and screening plants (production sites at km 148+630 and km 106+300), construction of two camps for workers and workshops (km 148+630 and km 106+300). See Figure 1 below.

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

Figure 40: Map of Epkin-Dyikan (Bashkugandy) Location.

2.3.2 Key objectives of the project.

222. The key objectives of the project are presented below:

- To restore and lay the project road to Technical Category II from Epkin (km 89+500) to Bashkugandy (km 159+200) under 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.
- Provision of proper road signs and markings.
- Provision of protective guardrails.
- Protection of historical and cultural sites located along the route.

2.3.3 Design Solutions.

223. The road was designed under the Kyrgyz geometric design standard for Category II, and, as such, must be sufficient to withstand transport loads throughout the projected service life effectively. 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

2.3.4 Project Overview, Construction Program, and Completed Works.

224. The construction program is divided into completed tasks and remaining works.

225. **Major Completed Works:**

- The completion of earthworks (excavation and embankments using rock and imported material).
- Installation of all designated culverts and box structures.
- Road pavement construction:
    - Lower asphalt layers: **100% completed**.
    - Upper asphalt layers (SMA): **100% completed**.
- Completion of a bridge at **km 148+847**.
- Installation of concrete curbs and base layers across the entire road.

226. **Remaining Works:**

- Tree planting: **30% completed**.
- Completion of drainage channels: **90% incomplete**.
- Base layer and paving on auxiliary sections (e.g., side roads).
- Installation of pedestrian barriers, road signs, and metal guardrails.

  Construction of bus stops, lighting, and additional infrastructure elements.

227. The table below shows the remaining work and the deadlines for its implementation.

Table 22:Contractor's Programme for Remaining Works.

№	Work Description	Period	Start	End
1	Planting of trees	67 days	01/04/2025	07/06/2025
2	Derivation excavation on the riverbed	14 days	01/06/2025	15/06/2025
3	Subgrade layer on ramps	192 days	14/11/2024	25/05/2025
4	Earth channels (Excavation for open drains, common material)	59 days	01/06/2025	30/07/2025
5	Earth channels (Excavation for open drains in rock)	59 days	01/06/2025	30/07/2025
6	Subsurface drainage with perforated PVC pipes	101 days	07/04/2025	17/07/2025
7	Subsurface drainage without perforated PVC pipes	80 days	26/06/2025	17/07/2025
8	Culverts on ramps	14 days	01/05/2025	15/05/2025
9	Protection works on culverts (Rip-rap for slope and bed protection)	59 days	01/06/2025	30/07/2025
10	Protection works on culverts (cast in-situ monolithic cement mortar matting)	59 days	01/06/2025	30/07/2025
11	Concrete curbs (БР 100.20.8/М) on sidewalk	80 days	31/03/2025	19/06/2025
12	Rubble concrete retaining walls	83 days	27/06/2025	18/09/2025
13	Subbase layer on ramps	194 days	14/11/2024	27/05/2025
14	Upper shoulder on main road	196 days	14/11/2024	29/05/2025
15	Base layer for ramps	204 days	14/11/2024	06/06/2025
16	Binder layer on ramps	206 days	14/11/2024	12/06/2025
17	Wearing layer on sidewalks and bus stops	38 days	19/05/2025	26/06/2025
18	Concrete signal posts (road edge markers)	41 days	02/04/2025	13/05/2025
19	Pedestrian steel barriers	42 days	22/05/2025	03/07/2025
20	Road signs	30 days	14/11/2024	14/12/2024
21	Road marking	57 days	16/04/2025	12/06/2025
22	Concrete parapets	208 days	14/11/2024	10/06/2025
23	Metal guardrailing (barriers)	196 days	14/11/2024	29/05/2025
24	Streeting lighting (lighting installation)	27 days	14/11/2024	11/12/2024

№	Work Description	Period	Start	End
25	Stella at km 112+000	14 days	01/07/2025	15/07/2025
26	Concrete canals for drainage	76 days	15/06/2025	30/08/2025
27	Connection concrete between asphalt edge and concrete parapet	60 days	01/05/2025	30/06/2025
28	Toilet construction	10 days	14/11/2024	27/12/2024
29	Solar panel-powered LED flashing yellow lights (300 mm diameter)	27 days	02/04/2025	29/04/2025
30	Traffic signal lamps	27 days	02/04/2025	29/04/2025
31	Metalic snow fence	80 days	31/03/2025	19/06/2025
32	Bus stops (2x(6.25 m x 2.55 m))	20 days	15/05/2025	04/06/2025
33	Bus stops (6.25 m x 2.55 m)	20 days	15/05/2025	04/06/2025
34	Defective pavement removal and re-construction (km 139+380 – km 139+500 LHS – bitumen accumulation and deformation, length – 120 m, width – 4.5 m	29 days	01/08/2025	30/08/2025
35	Defective pavement removal and re-construction (km 128+680 LHS, drawdown, length – 4 m, width – 2 mm, h – 10-12 mm at Jumgal village)	29 days	01/08/2025	30/08/2025
36	Construction of an earth channel (km 119+920 – km 120+080 provide an earth ditch 160 m in length) and reinforced concrete tray LP (km 120+207.5 – km 120+360 LHS 152.5 m in length), strengthening the existing irrigation channel with concrete between km 120+900 – km 121+140	29 days	01/06/2025	30/06/2025
37	Casting on-site a reinforced concrete channel to protect the roadbed from excess irrigation water of irrigated fields (km 122+432 – km 123+379 LHS)	29 days	01/06/2025	30/06/2025
38	Slope cutting, cleaning and profiling the construction site along the road	227 days	14/11/2024	29/06/2025
39	Renovation of Borrow pits and dismantling of service roads	289 days	14/11/2024	30/08/2025

228. Completion of all remaining tasks is planned by **November 28, 2025**.

229. Engineers will monitor interim milestones to ensure timely delivery.

230. According to the **Substantial Taking-Over Certificate (Phase 1)**:

- The works listed in Annex A are **100% completed**.
- The main road sections are functional and safe for operation.
- The works have been executed in compliance with contractual conditions, as confirmed by the engineer and contractor.

231. **Financial Status:**

- Total contract value: **$39.1 million** (with adjustments — **$42.66 million**).
- **50% of retained funds** have been approved for release to the contractor.

232. **Defects and Liabilities:**

- The **warranty period** is **36 months** from the date of substantial handover. The contractor is obligated to address all identified defects at their own expense.

233. The CAREC 1 and 3 Connector Road Project has successfully completed the first construction phase, including key tasks such as road paving, bridge construction, and drainage system installation. While some tasks remain, the implementation plan is well-structured. The project's successful completion will significantly improve the region's transportation network and infrastructure.

2.4 Key Project Participants.

234. The key participants of the Project and their roles are presented in the Table below.

Table 23: The Key Project Participants.

Role	Participant	Role Description
Creditor	Asian Development Bank (ADB)	Finances the project under Loan 3432 / Grant 0496-KGZ.
Employer	Ministry of Transport and Communications of the Kyrgyz Republic (MoTC KR)	Oversees project implementation and ensures interaction with contractors and consultants.
Engineer	Gentek Consult Ltd.	Supervises construction works and quality control and ensures compliance with the project design.
Main contractor	China Railway No.5 Engineering Group Co., Ltd.	Implements construction works as per Contract ICB № CAREC/C1&3/ICB/CW3.
Implementing Unit	Project Implementation Unit (PIU MoTC KR)	Coordinates project execution, organizes reporting, and monitors progress.

Role	Participant	Role Description
Dispute Board	Appointed Dispute Board	Addresses unresolved disputes between the parties under the contract.
Competent environmental authorities	Ministry of Natural Resources, Ecology and Technical Supervision of the Kyrgyz Republic and its territorial departments	Issuance of permits for planned activities, monitoring compliance with environmental standards and regulations.
Local government bodies	Ayil Okmotu	Exercises control over the use of land, water and other natural resources in the territory controlled by this local government body. Represents the interests of the population, acts as a link between the population and the Contractor.

3.3 Permits and Approvals.

235. To implement the CAREC 1 and 3 Road Reconstruction Project (Section 2B: Epkin–Dyikan, km 89+500—km 159+200), the general contractor, China Railway Engineering Group Co., Ltd. No. 5 (CR5), has obtained all the necessary permits from the relevant authorities and local authorities to carry out construction and production work. A detailed list of the permits obtained is provided below.

236. Permits for the use of quarries: On the project road (Epkin-Dyikan section, km 89-159), 15 sites were allocated for quarries. The Contractor received all the necessary permits/approval from local authorities (Permission from local authorities to use the allocated plot of land) and the MNRETS KR (permit - selection of a site by ecologists, Temporary permit for quarrying). The MOTC KR received an entrusted permit for all quarry sites from the SCIESU under GKR. These documents allow the contractor to legally develop deposits of building materials and ensure the smooth execution of construction work:

- Permission from local authorities to use the allocated land plot for quarries (letters: No. 04-9/12238 dated 03.10.19; No. 05-5/323 dated 23.01.24; No. 03-6/6540 dated 20.07.20; No. 04-04/10138 dated 02.08.18; No. 03-6/2323 dated 04.03.20; No. 01-6/1721 dated 25.03.23; No. 05-5/4548 dated 19.10.23; No. 91 dated 06.04.2023).

237. After the termination of the contract, all spoil areas used by the previous Contractor 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 37 spoil areas are used on the road section.

238. Permits for placing construction camps:

- Permit for placing a construction camp, km 148+630 (area of 2.0 ha) from the Kuyruchuk Ayil Okmotu (letter No. 01-1/434 dated 10/05/2021).

- Permit for placing a construction camp, km 106+300 (area of 1.924 ha) from the Cholpon Ayil Okmotu, (letter No. 02-1-34/559 dated 04/14/2023).

239. These camps are intended for workers to live in and serve as bases for managing construction processes. Each camp complies with sanitary and environmental standards, and waste removal is organized.

240. Permits for placing production sites:

- Permit for placing a production site, km 148+630 (area 6.9 ha) from Kuyruchuk Ayil Okmotu (letter No. 01-1/434 dated 10/05/2021).

- Permit for placing a production site, km 106+300 (area 1.57 ha) from Cholpon Ayil Okmotu, (letter No. 02-1-34/559 dated 04/14/2023).

241. These production sites include crushing and screening plants, an asphalt concrete plant (km 148+630), and warehouses for building materials. All facilities comply with environmental and safety standards.

242. For waste disposal, the contractor entered into agreements with local authorities:

- Agreement for the use of a landfill in the village of Tugol-Sai (Order No. 13b dated 18.04.2022).

243. Removal of solid and liquid waste has been organized in accordance with the requirements of local sanitary services, which is confirmed by agreements with municipal enterprises.

244. The contractor also received an Electricity Permit (28.06.2022), a Well Drilling Permit (06.04.2022), and a Permit for the Organization of Waste Material Dumps (06.04.2022).

245. All works related to quarrying, camp placement and operation of production sites are subject to regular environmental monitoring. The contractor operates within the framework of the issued permits and complies with the conditions established within the framework of the state environmental impact assessment.

246. The general contractor CR5 has received a full set of permits for the implementation of all planned activities, including quarrying, creation of camps for workers and operation of production bases. This ensures that construction works comply with environmental and technical safety requirements, as well as standards established in the Kyrgyz Republic.

4 SUMMARY OF ONGOING ISSUES FROM THE ENVIRONMENTAL MONITORING REPORT.

247. Based on the inspections carried out, one issue was identified that remains open: low survival rate of compensatory tree plantings.

248. During the on-site environmental inspection on 28.10.2024, a low survival rate of deciduous trees (poplars) of unknown cause was revealed, many seedlings were mechanically damaged or the stems were dry and broken by the wind.

249. In percentage terms, the survival rate of trees within the framework of compensatory planting is 30% at the current moment.

250. It was decided to conduct a repeat inspection with a representative of the Naryn Forestry in the spring of 2025 (end of March) and replant the trees that did not survive in April – June 2025, which is provided for by the Contractor in the Construction Program for the remaining works.

251. However, it is worth noting that there were violations that were systematic throughout the project, as they were related to the Contractor's daily activities, namely: neglect of wearing PPE or parts thereof, safety precautions (parking of fuel trucks in unintended places, leaving gas cylinders in direct sunlight in the summer) and incomplete assembly of fire shields (ensure that workers return items to fire shields).

5 SUMMARY OF OBSERVATIONS OF SITE VISITS.

252. The completion of site closure activities has been partially confirmed based on the post-construction environmental audit checklist (Appendix 1). Some actions have been completed, and others are planned for 2025 and included in the Contractor's Remaining Work Program. Information on the status of activities and the corrective action plan is provided below.

253. All waste management and fuel and lubricant spill response activities are ongoing and constantly monitored. Hazardous waste is disposed of under agreements with licensed municipal enterprises.

254. Trees have been partially planted — 30% of the planned volume has been completed.

255. The formation of the topsoil and vegetation cover on roadsides and slopes has been partially completed — 25% of the planned volume has been completed.

256. Preparations for quarry reclamation are underway at this stage. 5% has been completed.

257. Current status: Quarries used for the extraction of construction materials require the development of reclamation plans. The main quarry (km 110+900) is mothballed, but reclamation work has not begun.

258. Applications for reclamation have been submitted to the State Committee for Industry, Energy, and Subsoil Use (SCIESU); final approval is expected in the first quarter of 2025.

259. The reclamation project, including terrain leveling and vegetation restoration, is at the approval stage. The contractor undertakes to backfill the excavations and create conditions for natural restoration of vegetation. Reclamation includes planting local tree species and grasses to prevent erosion and restore the ecosystem.

260. Work on dismantling service roads, temporary structures and cleaning the territory has not begun.

261. Work on demolishing camps and production sites has not begun.

262. The Contractor shall restore all temporarily occupied areas after construction to the pre-construction condition or better.

263. Regular monitoring and coordination of work shall ensure that the environmental obligations of the project are met in accordance with the plan presented below.

Table 24: Corrective Action Plan.

№	Action	Requirement SSEMP/National legislation	Resources, Responsibility	Timetable	Comments
1	Prepare a Quarry Renovation Plan.	Appendix xiii SSEMP	CR № 5 Environmental Specialist Nurlan Nurdinov	30/05/2025	Submit the Quarry Renovation Plan for approval by the Engineer and ADB
2	Renovation of quarries and dismantling of service roads	Appendix xiii SSEMP	CR № 5	30/08/2025	After the renovation is completed, a commission consisting of representatives of local authorities and the Territorial Department of Environmental Protection will inspect the work and draw a corresponding report.
3	Reinstatement of the topsoil and vegetation cover on slopes	SSEMP	CR № 5	29/06/2025	
4	Conduct a re-inspection in spring 2025 (end of March) and calculate the number of trees that need to be planted.	Appendix ix SSEMP	CR № 5 Environmental Specialist Nurlan Nurdinov	15/03/2025 – 30/03/2025	A joint inspection will be conducted with a representative of the Naryn Forestry Department.
5	Planting of trees	Appendix ix SSEMP	CR № 5 Environmental Specialist Nurlan Nurdinov	01/04/2025 - 07/06/2025	
6	Cleaning and profiling the construction sites along the road	SSEMP	CR № 5	28/11/2025	
7	Demolition of camps and production sites facilities	SSEMP	CR № 5	28/11/2025	

6 SUMMARY OF SUCCESSFUL AND LESS SUCCESSFUL ASPECTS OF THE CONSTRUCTION PERIOD.

5.1 Review of successful and less successful aspects of the project.

264. During the reporting period, the Contractor's environmental management system was significantly strengthened by:

- Updating the Contractor’s SSEMP ((information about the second construction camp and the crushing and screening plant at km 106+300 was added, as well as the Contractor's Tree Compensation Planting Plan and Emergency Response Plan);

- Preparing a Training Plan for CR No. 5 workers on safety and occupational hygiene for the second half of 2024;

- Personnel responsible for eliminating oil leaks in two camps and production bases of the project have been appointed;

- Ensuring the daily presence of the Contractor’s environmental and health & safety officers on-site.

265. During the reporting period, the Contractor improved stakeholder engagement and held public hearings in the villages of Cholpon, Jumgal, Kyzart, and Kuirukchuk to explain the operation of the Grievance Redress Mechanism and inform the population about the planned work, as well as discuss social issues and environmental protection.

266. In analyzing the less successful aspects of the project, several key points should be highlighted.

- there were systematic safety violations, which were expressed in insufficient use of personal protective equipment (PPE) and untimely return of equipment to fire shields.

- information on contact persons in case of incidents, as well as banners dedicated to first aid and behavior in emergency situations, did not appear at the beginning of the project, but only in the summer of this year.

- during the implementation of the project, three fatal road accidents occurred, two of which involved the Contractor. These tragic incidents highlight the need for more careful safety monitoring at all stages of the work, as well as increased efforts to train employees in safety rules and correct behavior in difficult situations.

5.2 Good practice.

267. The best practice for improving the SSEMP is to constantly update it (at least once a year) and adapt all sub-plans to the project's changing circumstances and conditions. The main directions are outlined below.

268. Clear structure and division of responsibilities:

- Appointment of dedicated personnel (environmental and social specialists) at project sites;

- Regular monitoring and reporting on environmental and social aspects.

269. Staff training and public awareness:

- Regular training sessions for staff on environmental protection, occupational safety, and traffic rules;

- Public awareness campaigns about project impacts and available grievance mechanisms for the local population.

270. Preventive control measures:

- Development and implementation of SSEMP sub-plans;

- Conducting environmental inspections and corrective actions in case of identified non-conformities.

271. Stakeholder engagement:

- Public consultations with local communities, ensuring open communication and addressing social concerns;

- Collaboration with government bodies, such as local forestry departments, for monitoring compensatory planting efforts.

5.3 Opportunities for Improvement.

272. The Contractor is responsible for ensuring compliance with environmental standards, occupational health, and workplace safety, and it is in their interest to continually improve their environmental and social system. Key areas for improvement are listed below.

273. Strengthening monitoring and reporting:

- Implementation of digital tools to automate the monitoring of environmental and social indicators;

- Regular updates of online registers for grievances, incidents, and inspection results;

- Quarterly inspections using environmental checklists and preparation of Corrective Action Plans based on the findings;

- It is also recommended that a separate road safety report be prepared for the project. This is necessary to improve the level of road safety, control the implementation of corrective measures and prevent incidents in the future. Such a report will ensure a systematic approach to solving safety problems and increase confidence in the project management.

274. Optimizing the training program:

- Expanding the content of training sessions to address identified deficiencies;

- Engaging external specialists to conduct training events.

275. Enhancing community engagement:

- Regular surveys and consultations with local communities to identify and resolve potential issues;

- Expanding programs to support local initiatives, such as access to clean water or road improvements.

276. Improving the effectiveness of compensatory measures:

- Selecting suitable tree species resilient to future climatic conditions (changes in ombroregime and continentality) to ensure high survival rates and long-term ecosystem stability;

- Developing long-term care plans for compensatory trees considering climatic and local characteristics, involving specialized experts;

- Involvement of specialists for diagnostics and prevention of tree diseases on an ongoing basis during the defect liability period.

277. Enhancing contractor involvement:

- Inclusion of environmental and social management requirements, as well as liability for failure to comply with these requirements, in the contractual obligations of subcontractors..

278. These measures will help strengthen the system's resilience and efficiency, minimize environmental impact, and improve social engagement with the local population.

6 SUMMARY AND RECOMMENDATIONS.

6.1 Summary.

280. The Contractor carried out the planned activities in strict accordance with national legislation and the requirements of the ESMP, and also obtained all necessary permits from local authorities and relevant competent authorities for the use of quarries, dumps, production sites and construction camps (these were presented in previous reports).

281. Archaeological excavation activities at historical and cultural heritage sites were completed in 2022.The Contractor did not damage any historical and cultural heritage sites located along the road.

282. There is an improvement in the environmental conditions in the Project area, which is due to the improvement of the transport and operational characteristics of the road (the strength of the road surface, the smoothness of the surface, the coefficients of adhesion of the wheels of the vehicle to the surface, etc.) and the increase in the efficiency of motor transport (speed and safety of road traffic, wear of units and assemblies of the rolling stock, fuel consumption, etc.), which significantly reduces the pollution of the atmospheric air and water bodies. In addition, the noise load along the road has also significantly decreased. The noise load and emissions of pollutants into the atmospheric air will decrease in the next reporting period since the main work on the Project has been completed, and the technical level and operational condition of the Epkin-Dyikan [Bashkugandy] road, km 89+500 – km 159+200 will fully meet the requirements for the main transport and operational characteristics of roads.

283. The site closure activities are being carried out in accordance with the Contractor's Remaining Works Programme. Full completion is scheduled for November 2025. Regular monitoring and coordination with the contractor will ensure that any remaining non-conformities are addressed in a timely manner.

6.2 Recommendations.

284. To complete the project successfully, the Contractor is recommended to adhere to all requirements of the EMP and pay special attention to:

- Occupational health and safety across the Project area, special attention should be paid to compliance with traffic rules and speed limits: The Contractor must prepare and submit a Training Plan for CR No. 5 workers on safety and occupational hygiene for the first half of 2025 for approval by the CSC (according to Appendix iv of the SSEMP);

- Quarries rehabilitation: The Contractor must prepare a Quarry Rehabilitation Plan. After completing rehabilitation under the approved plan, a commission comprising representatives of local authorities and the Territorial Environmental Protection Department will inspect the work and issue an official report;

- Compensatory tree planting: The Contractor must ensure the survival of all compensatory trees planted. A follow-up inspection with a representative from the Naryn Forestry Department should be conducted in spring 2025 (end of March), and non-surviving trees must be replaced.

The contractor must ensure the clearing and profiling of construction sites along the road, the demolition of camps and production site facilities, and the restoration of all temporarily occupied areas after construction to their condition prior to construction or a better condition.

285. It is also recommended that a separate road safety report be prepared for the project. This is necessary to improve the level of road safety, control the implementation of corrective measures and prevent incidents in the future. Such a report will ensure a systematic approach to solving safety problems and increase confidence in the project management.

Annex 1: Post-Construction Environmental Audit Checklist.

Required mitigation measures of environmental impact	Measure implemented				Comment
	yes	partially	no	N/A	
Topsoil placed at the original location			☒		At the moment, work is underway to arrange shoulders and slopes, the final stage of these works will be the application of the topsoil layer. Also, the application of the topsoil layer is provided for during the reclamation of quarries and access roads, and will be completed by 30.08.2025.
Vegetation cover reinstated			☒		Restoration of vegetation cover will be completed by 30.08.2025.
Trees replanted		☑			Tree replanting is 30% complete. The remaining tree replanting work will be carried out from 01.04.2025 to 07.06.2025
Renovation of quarries and dismantling of service roads			☒		Will be completed by 28.11.2025.
Construction waste and surplus/waste soil were removed completely and properly disposed		☑			Non-compliances were closed. The final cleaning work of the construction camps and production sites will be completed by 28.11.2025
Hazardous waste was removed and disposed properly.	☑				Hazardous waste is removed according to the agreement. Non-compliances have been closed.
Fuels and lubricant spills eliminated	☑				Spills have been eliminated.
The Contractor's equipment and machinery were removed.			☒		Will be completed by 28.11.2025.
Demolition of camps and production sites facilities.			☒		Will be completed by 28.11.2025.
All temporary facilities were removed and cleaned up.			☒		Will be completed by 28.11.2025.
Post-construction territory reinstated to pre-construction or better conditions.			☒		Will be completed by 28.11.2025.

ANNEX – 5 DUST SUPPRESSION PLAN

Соединенная Дорога Коридоры ЦАРЭС 1 и 3 участок 2Б, на реабилитацию автодороги

Эпкин-Баш-Кууганды

(дистанция км 89+500- 159+200 км)

Проект менеджер Чжанг Лян

«30» июня 2022

План по пылеподавление.

№ п/п	Гос. Номер машины	ФИО водителя	Участок по километражу	Время пыленодавление		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	

КЫРГЫЗ РЕСПУБЛИКАСЫ
НАРЫН ОБЛУСУ
ЖУМГАЛ РАЙОНУ
КУЙРУЧУК
АЙЫЛ АЙМАГЫНЫН
АЙЫЛ ӨКМӨТҮ- МЕКЕМЕСИ

КЫРГЫЗСКАЯ РЕСПУБЛИКА
НАРЫНСКАЯ ОБЛАСТЬ
ЖУМГАЛЬСКИЙ РАЙОН
АЙЫЛ ОКМОТУ- УЧРЕЖДЕНИЕ
КУЙРУЧУКСКОГО
АЙЫЛНОГО АЙМАКА

БУЙРУК

№ 52

" 5 " 10 2021-ж. Куйручук айылы.

Түндүк- Түштүк альтернатива жолун курууга ФКОО "Китайская железнодорожная инженерная компания №5" ишканасына убактылуу лагерь куруу жөнүндө

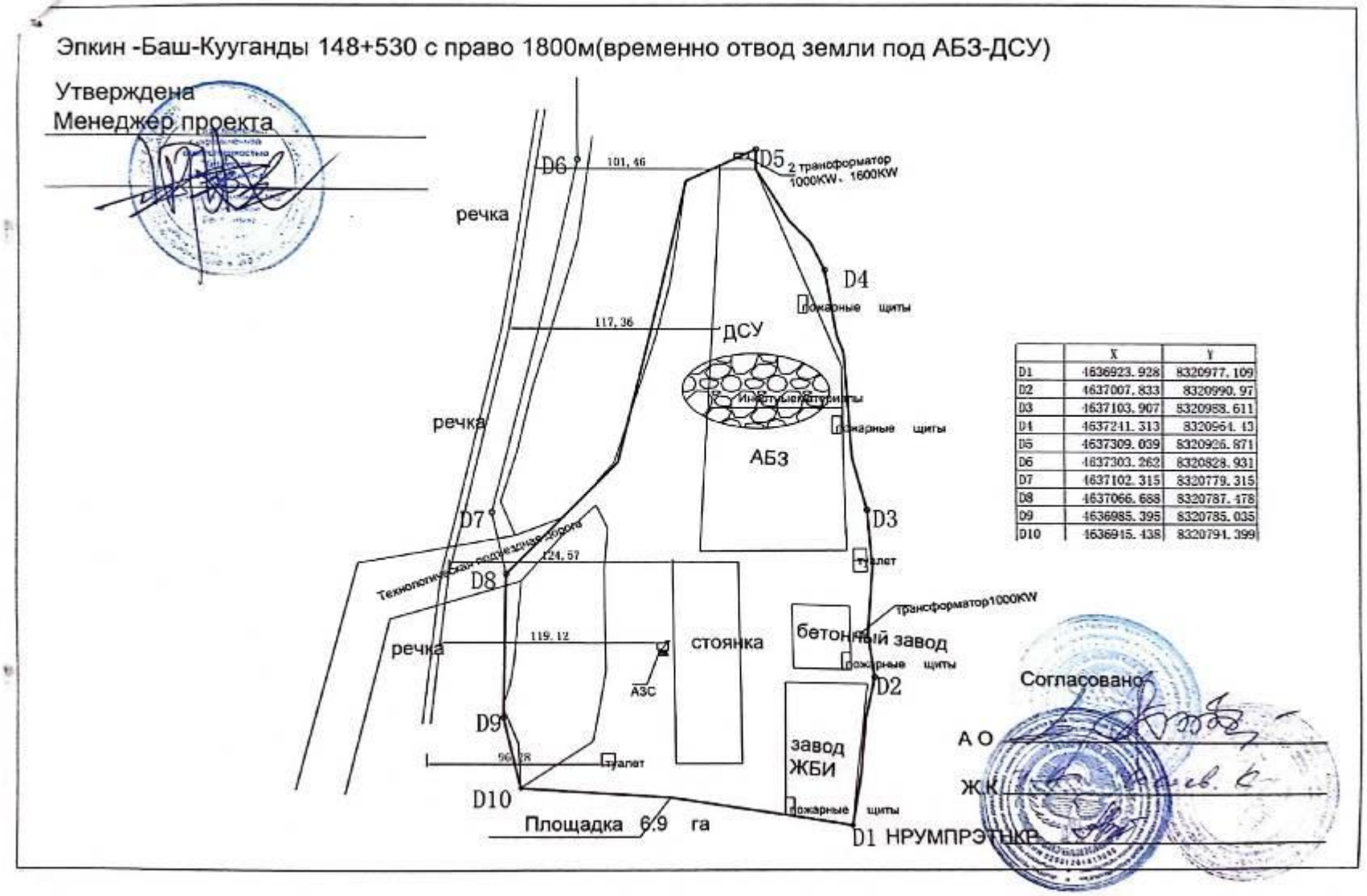
Түндүк- Түштүк альтернатива жолун куруу иштерин жүргүзүп жаткан ФКОО "Китайская железнодорожная инженерная компания №5" ишканасына убактылуу лагерь куруу үчүн **буйрук кылам:**

1. Куйручук айыл аймагынын айылдык Кенешинин 2021-жылдын 30-сентябрындагы №3 токтомуна ылайык Түндүк- Түштүк альтернатива жолунун курулушун ишке ашырып жаткан "Китайская железнодорожная инженерная компания №5" ишканасына Куйручук айыл өкмөтүнө тиешелүү Кара-Чий участогунун Түгөлдүн сайынын жээгинен, жайыт жеринен 2 (эки)га жер участогу 3 жылдык мөөнөткө бөлүнүп берилсин.

2. Берилип жаткан жерге тиешелүү иш кагаздарын алып баруу жана келчшимди мыйзамдын чегинде түзүү Куйручук жайыт комитетинин төрагасы К. Чокоевке милдеттендирилсин.

3. Бул буйруктун аткарылышын көзөмөлө алуу жагын өзүмө калтырам.

Башчы Б. Абылабеков.



	X	Y
D1	1636923. 928	8320977. 109
D2	1637007. 833	8320990. 97
D3	1637103. 907	8320958. 611
D4	1637241. 313	8320964. 13
D5	1637309. 039	8320926. 871
D6	1637303. 262	8320828. 931
D7	1637102. 315	8320779. 315
D8	1637066. 688	8320787. 178
D9	1636985. 395	8320785. 035
D10	1636915. 438	8320791. 399

КЫРГЫЗ РЕСПУБЛИКАСЫНЫН
ЭКОЛОГИЯ ЖАНА КЛИМАТ
БОЮНЧА
МАМЛЕКЕТТИК КОМИТЕТИ
НАРЫН ОБЛУСТУК
БАШКАРМАЛЫГЫ
722900,Нарын шаары Ленин 58/а
Факс(03522 5-04-47),тел 5-75-76
Email: ntuoos@inbox.
ЖИН 02501201410056 ОКПО 25933715

ГОСУДАРСТВЕННЫЙ КОМИТЕТ ПО
ЭКОЛОГИИ И КЛИМАТУ
КЫРГЫЗСКОЙ РЕСПУБЛИКИ
НАРЫНСКОЕ ОБЛАСТНОЕ
УПРАВЛЕНИЕ
722900 г. Нарын, ул.Ленин 58/а
Факс(03522 5-04-47), тел 5-75-76
Email:ntuoos@inbox.ru ИНН
02501201410056 ОКПО 25933715

« 22 » 12 2021-ж. Нарын ш.

№ 02-4/155

ФКОО «Китпайская железнодорожная инженерная групповая компания №5» ишканасына

Нарын аймактык экология жана климат боюнча башкармалыгы Сиздердин 5.10. 2021-жылдагы № 52 кайрылуунуздарга.

2021жылдын 13-декабрында башкармалыкка келип тушкон ФКОО «Китайская железнодорожная инженерная компания №5» ишканасынын Тундук-Туштук жолун куруулуш (148-600км) долбоорунун алкагында убактылуу базанын схематикалык планынын негизинде жер тилкесине макулдук берүү кайрылуусу боюнча жеринде кароо жүргүзүлдү.

Жер тилкесине кароо жүргүзүү менен Жумгал районунун Куйручук айыл аймагынын жайыт комитети менен макулдашылып 3 жылдык мөөнөткө ижарага берилген жер тилкесине убактылуу базанын курулушун долборлоого макулдук корутундусун жиберет.

Башкармалыктын башчысы **Д.Оморов**

Н.Миназарова
0352251935

КЫРГЫЗ РЕСПУБЛИКАСЫ
НАРЫН ОБЛУСУ
КОЧКОР РАЙОНУ
ЧОЛПОН АЙЫЛДЫК
АЙМАГЫНЫН
АЙЫЛ ӨКМӨТҮ
722815 Чолпон айылы,Ташы көч. 26
тел : 6-00-06, факс 6-00-06
р/с № 1290275000025673
Кочкор КРБ №440505100100l136
БИК 129027
Кочкор ФААК «РСК Банк» Кочкор айылы
ИНН 02805199610046
ОКПО 20642203

КЫРГЫЗСКАЯ РЕСПУБЛИКА
НАРЫНСКАЯ ОБЛАСТЬ
КОЧКОРСКИЙ РАЙОН
АЙЫЛ ОКМОТУ
ЧОЛПОНСКОГО
АЙЫЛНОГО АЙМАКА
722815 с. Чолпон, ул.Ташы 26
тел : 6-00-06, факс 6-00-06
р/с № 1290275000025671
Кочкор РОК № 440505100100l136
МФО 129027
Кочкорское ФОАО «РСК Банк» села Кочкор
ИНН 02805199610046
ОКПО 20642203

2023-жылдын 14-апрели № _____ Чолпон айылы

Сиздердин 2023-жылдын 6-апрелиндеги CR5-№-0098 чыгыш катка

КР №5 Кытай темир жол
инжинердик топ ЖЧКсы

Кызматтык кат

Эпкин-Башкууганды авто жолун реконструкциялоо долбоорун ишке ашыруу максатында сиздер сураган 106-300 чакырымынын оң тарабынан убактылуу 2 жылдык мөөнөткө келишимдин негизинде макулдук бере тургандыгыбызды билдиребиз.

Башчы **У.Өмүрбеков**

Жаныш уулу О., жер, турак-жай коммуналдык
маселелери жана өзгөчө кырдаалдар боюнча башкы адис
Тел: 0700 61-99-16

ДОКУМЕНТ ЭЛЕКТРОНДУК САНАРИП
КОЛГАМГАСЫ МЕНЕН БЕКИТИЛГЕН

Чыг. № 02-1-34/559, 14.04.2023

Кол койгон: Өмүрбеков У.А., 14.04.2023

Утверждено:
Менеджер проекта:

The territory of camp, base and crushing plant at KM 106+300 RHS

Территория лагеря, базы и ДСУ на км106+300, справа

СК42		
	X	Y
N1	4663619.50	13516292.15
N2	4663631.33	13516326.70
N3	4663659.68	13516409.37
N4	4663711.91	13516382.06
N5	4663718.17	13516321.79
N6	4663761.33	13516310.29
N7	4663821.35	13516246.51
N8	4663806.44	13516200.54
N9	4663777.76	13516206.83
N10	4663719.54	13516206.83
N11	4663674.20	13516231.79
N12	4663657.31	13516262.88
N13	4663629.01	13516241.58
N14	4663709.48	13516194.74
N15	4663768.05	13516170.74
N16	4663651.38	13516041.45
N17	4663606.26	13516182.83

Лагерь Площадь:1.924Га
Дробилка Площадь:1.57Га

Согласовано:
Айыл Окмоту:
Пастбищный комитет:
ЫКНРУ:

КЫРГЫЗ РЕСПУБЛИКАСЫНЫН
ЖАРАТЫЛЫШ РЕСУРСТАРЫ,
ЭКОЛОГИЯ ЖАНА ТЕХНИКАЛЫК
КӨЗӨМӨЛ МИНИСТРЛИГИНИН

ЫСЫК-КӨЛ-НАРЫН
РЕГИОНАЛДЫК БАШКАРМАЛЫГЫ
722900 Нарын шаары, Ленин к.58/10
Факс(03522) 5-04-47, тел 5-19-35
Email: *ntuoos@inbox.ru*

МИНИСТЕРСТВА ПРИРОДНЫХ
РЕСУРСОВ, ЭКОЛОГИИ И
ТЕХНИЧЕСКОГО НАДЗОРА
КЫРГЫЗСКОЙ РЕСПУБЛИКИ

ИССЫК-КУЛЬ-НАРЫНСКОЕ
РЕГИОНАЛЬНОЕ
УПРАВЛЕНИЕ
722900 г. Нарын, ул.Ленина 58/1
Факс(03522) 5-04-47, тел 5-19-35
Email:ntuoos@inbox.ru

«__»_____2023 ж

№ 01-1/_____

Нарын шаары

КОО Кытай темир жол
Инженердик №5 компаниясынын
жетекчиси Чжан Ляньга

Ысык-Көл-Нарын регионалдык башкармалыгы Сиздердин 25.04.2023-жылдагы №CR5-N-0102 катынызга төмөнкүчө жооп беребиз. Кочкор районунун "Кызарт "участогунда жайгашкан 1.924 га жер аянтына лагерь жана1.57га жерге таш майдалоочу шайман (ДСУ) орнотуп иштетүүгө макулдук беребиз.

Кыргыз Республикасынын 1999-жылдын 16-июнундагы №53 мыйзамы "Айлана-чөйрөнү коргоо" жөнүндө жана Кыргыз Республикасынын 2009-жылдын 8-майындагы № 151 "Экологиялык коопсуздукту камсыз кылуу боюнча жалпы техникалык регламентинин" 13,15-беренелеринин, Жер казынасы жөнүндө мыйзамынын 20,29,35- беренелерине ылайык иш жүргүзүүнөрдү билдиребиз.

Башчынын орун басары: Р. Токталиев.

Ал:Акималиев Т.

Тел: 0(3522)5-19-35