Semi-annual Environmental Monitoring Report

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Semi-annual Environmental Monitoring Report
January to June 2024

Kyrgyz Republic:

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

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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
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

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2. Training MoM, June 2024;
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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 11th EMR for the project covering the six months of project work conducted from January to June 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 March and in June 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, due to recurring non-compliances, in June 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 Annexes 1 and 2.

6. Based on the findings from previous and current audits, trends have emerged indicating poor environmental and safety performance by the Contractor, primarily due to recurring non-compliance. These same findings have persisted consistently across reporting periods. The recurring non-compliances have been associated with handling production waste and maintaining decent sanitary and hygienic conditions in construction camps, timely disposal of waste and oil leaks in the camps/site areas, and lack of PPE or parts. To eliminate recurring non-compliances when monitoring the environment at the project site, additional explanations are provided to the contractor's personnel about the importance of complying with the requirements of the environmental protection and safety rules. In particular, the CSC participates in the contractor’s staff training and thoroughly examines the causes and consequences of each identified non-compliance to develop recommendations. Based on the results of the inspections and environmental checklists, the CSC prepared a Corrective Action Plan, which sets out the measures required for implementation. The Corrective Action Plan was sent to the Contractor by official letter (Annex 3).

7. In connection with systemic non-compliance in handling waste and oil spills, June 2024 CSC conducted training sessions for staff on the following issues (contractor's management team - 8 people):

- Waste management following Appendix (ix) “Solid and Liquid Waste Disposal Plan” of the SSEMP;

- Maintaining cleanliness on the territory of camps, Appendix (xii) “Construction Site and Camps Management Plan” of the SSEMP;

- Tree maintenance after planting.

The MOM of the training sessions is presented in Annex 4.

8. The Contractor shall understand and consistently meet the environmental safeguard requirements. Preventive controls are to be applied to eliminate these non-compliances before they occur. Thus, it is strongly suggested that the Contractor increase its focus on environmental safeguard performance. In addition, the contractor was recommended to improve internal communication and control over incoming correspondence. The consultant conducted a random check of incoming correspondence concerning environmental protection issues. As a result of this work, it was revealed that the consultant's letters were not sent in a timely manner to the contractor's specialists responsible for environmental protection issues. The consultant will monitor this situation during the next reporting period.

1.3 Camps

9. The first contractor's camp is located at km 148+630 on the Kuiruchuk Aiyl Okmotu municipal territory, not far from the contractor's production base. The contractor received permits to use this territory from Kuiruchuk Aiyl Okmotu. Permits were obtained from the Issyk-Kul-Naryn Regional Office of the Ministry of Natural Resources, Environment, and Technical Supervision of the Kyrgyz Republic., and the contractor entered into an agreement with a local company for the removal of liquid and solid waste.

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

11. The second contractor's camp is located at km 106+300 on the municipal territory of Cholpon-Aiyl Okmotu. The contractor received permits to use this territory from the Cholpon-Aiyl Okmotu of Kochkor District and the Issyk-Kul-Naryn Regional Office of the Ministry of Natural Resources, Environment, and Technical Supervision of the Kyrgyz Republic.

12. The second contractor's camp territory is 1.924 hectares and has been built up. The camp contains dormitories for workers, parking facilities for cars and trucks, a workshop for vehicle repairs, a storage facility, garbage bins for domestic and food waste, a settling tank, a transformer, a security room, toilets, and showers.

2. PROJECT DESCRIPTION AND CURRENT ACTIVITIES.

2.1 Project Description.

2.1.1 Project Section Location and Basic Design.

13. 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.

14. 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.

15. 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

16. 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.

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

18. 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.

19. 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 sections of agricultural land intended for agriculture and livestock husbandry. The high-mountainous part is the border between the Kochkor and Jumgal districts, as well as the border of the water-parting lines of the Chui and Jumgal rivers. This high point of the road is a pass point between mountain ranges running parallel east to west of Naryn Region. The area is characterized as hilly and mountainous and covered with grasses suitable for grazing.

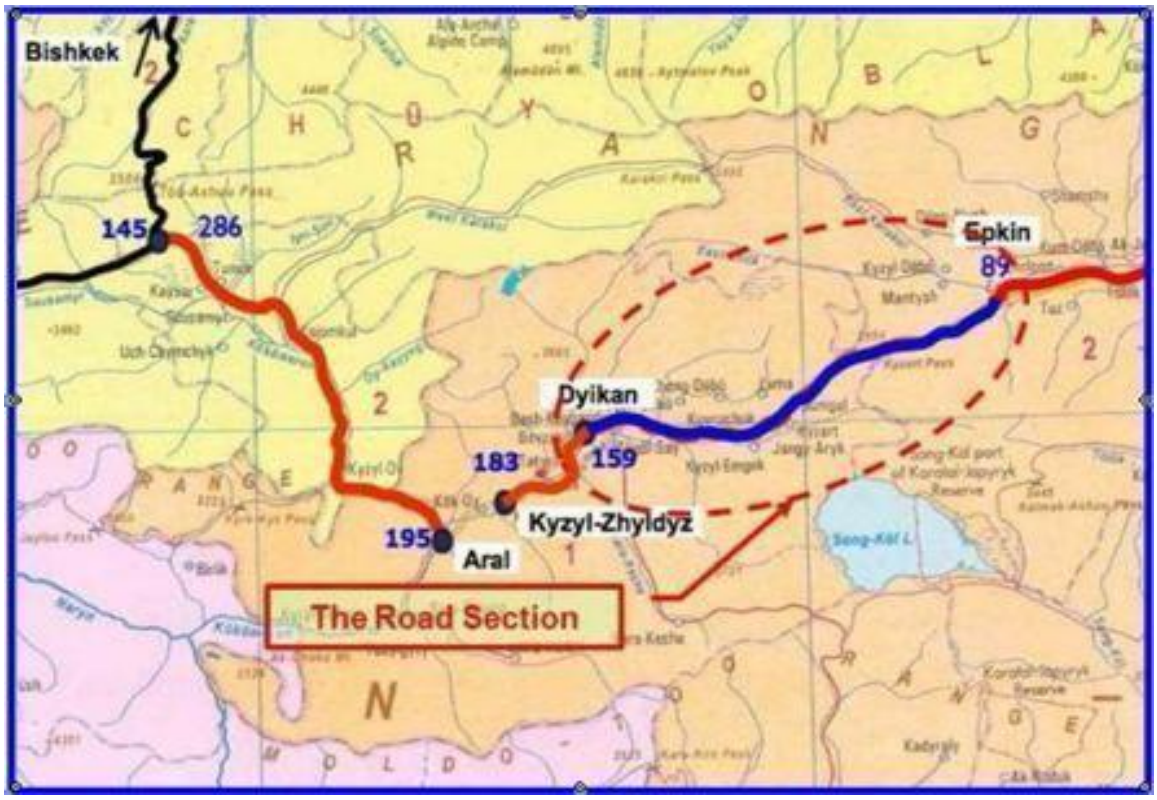


Figure 1: Map of Epkin-Dyikan (Bashkugandy) Location.

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

20. 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.

21. 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.

22. 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.

23. 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.

24. 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.

25. 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

26. 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.

27. 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.

28. 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.

29. 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 Detalis

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
		Common 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
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.

30. Figure 3 shows a scheme of the organizational structure and management of project activities. 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.

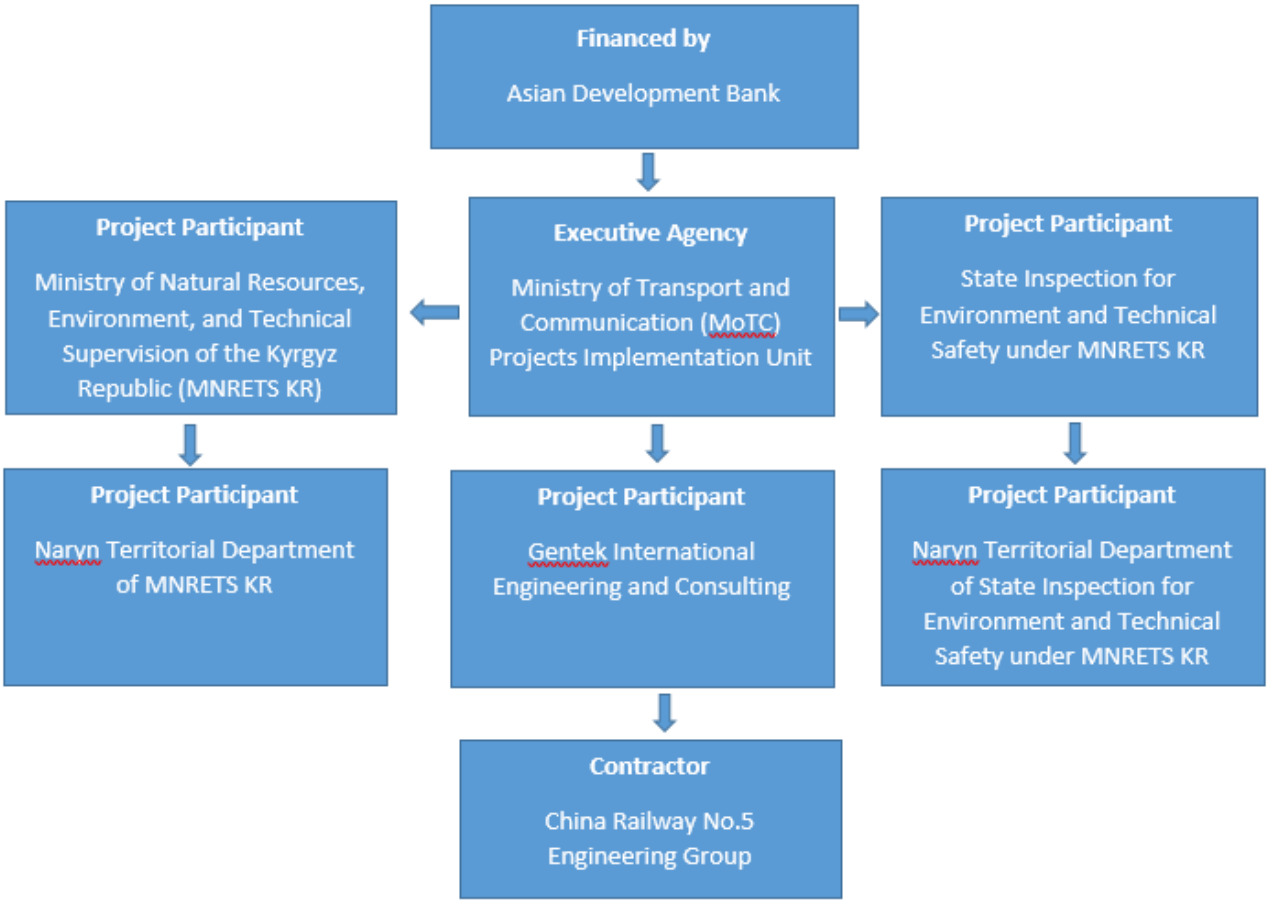


Figure 3: Project Organizational Structure and Management.

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

31. 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 70 km
Donor:	Asian Development Bank.
Contract signing date:	23.09.2021
Executive Agency	Ministry of Transport and Communications of the Kyrgyz Republic
Commencement Notification	
Completion Date	
Completion period - days	2,5-years (30 month) or (900days)
Time Extension - days	-
Warranty period - days	3 years
Contract Amount	US$ 39,100,002.18
The intermediate payment minimum amount, USD (2%)	2 % of the Accepted Contract Amount.
The total advance payment amount	15 % Percentage of the Accepted Contract Amount payable in the currencies and proportions in which the Accepted Contract Amount is payable
Bank guarantee amount	The performance security will be in the form of an unconditional bank guarantee in the amount of 10 % of the Accepted Contract Price.
Third party insurance amount	1,000,000 US Dollars per occurrence with the number of occurrences unlimited
Insurance submission deadlines a) insurance certificate b) relevant policies	Periods for submission of insurance: 28 days 28 days
Penalties for late completion of work	0.05 % of the Contract Price per day, in the currencies and proportions in which the Contract Price is payable.
Maximum amount of penalties for delay	10.0 % of the Contract Price.
Reimbursement of depreciation and prepayment	30 %
Limitation on deduction of money	10 % of the accepted Contract amount
Retention rate	10 % of the amount of the Interim Payment Certificates

2.2.1 Project Contracts and Management.

32. 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).

33. 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.

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

35. 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.

36. 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.

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

2.3 Project Activities during the Current Reporting Period.

2.3.1 Road Construction Works.

38. 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);
- Existing asphalt pavement break up and removal;
- Cut excavation;
- Embankment;
- Construction of subgrade, subbase, and base layers;
- Construction of binder course layer;
- Completion of installation of previously started culverts, as well as laying of new culverts.

39. Table 7. provides information on the quantity and percentage of work completed at the site from 01.01.2024 to 30.06.2024. 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 148+847 – bridge and detour road
7) km 150+400 – km 159+200

Figure 4: Map of road sections with active construction work, January-June 2024.

Table 7: Quantities of main work performed for 01.01.2024 - 30.06.2024.

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	313,410	84%		60,590	16%
03	Cut excavation	m3	338,000	179,987	53%		158,013	47%
04	Subgrade	m3	296,000	176,863	60%		119,137	40%
05	Subbase	m3	292,000	191,000	65%		101,000	35%
06	Base	m3	150,000	121,300	81%	56.4/69.7=80%	28,700	19%
07	Binder coarse	m3	62,000	45,000	73%	50.6/69.7=72.6%	17,000	27%
08	Wearing coarse	m3	41,300	14,500	35%	24.5/69.7=35%	26,800	65%
09	Shoulders	m3	133,200	22,500	17%		110,700	83%
10	Culvert (at the main road)	psc.	119	119	100%		0	0%

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

Figure 5: Install temporary signage, km127+650RHS.

Figure 6: Road maintenance, km 89+500 - km159+200 R&L.

Figure 7: Transfer base material to km122 from km106.

Figure 8: km141+580RHS Installation of prefabricated reinforced concrete side drains Type LR 6.

Figure 9: Planting trees, km 142+900.

Figure 10: Planting trees, km149+500RHS.

Figure 11: Tack coat, km142+020-km143+020 RHS.

Figure 12: Wearing course, km143+080-km143+300 RHS.

Figure 13: Embankment formation, km 113+600 – km 113+680 RHS.

41. 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	1734	100%	100%	3.71%	01.08.2023
Open Drain (m3)	20 258,00	133	132	0.7%	0.7%	0%	01.05.2024
Subsurface Drain (m)	4 363,00	2600	2768	59.59%	63.44%	-3.85%	
Retaining Walls							
Concrete Walls (m3)	232.00	26	26	11.21%	11.21%	0%	
Earthworks							
Clear & Grub (ha)	40,97	14.03	12.48	34.24%	30.46%	0%	31.07.2023
Cut Excavation (m3)	338 226,09	140 789,16	155 021	41.63%	45.83%	0.37%	31.08.2023
Embankment (m3)	374 076,35	226 533,16	225 185.36	60.56%	60.20%	0.36%	31.08.2023
Subgrade (m3)	295 707,34	140 831.88	138 845.58	49.29%	48.60%	0.70%	13.10.2023
Pavement							
Sub base (m3)	292 447,30	280 000	115 354.15	95.7%	39.5%	0%	13.10.2023
Base (m3)	149 681,00	145 000	97 860.18	96.85%	65.4	0%	26.10.2023
Low. Shoulder (m3)	71 063,00	4 000	3 452.73	5.6%	4,9	0,7%	06.11.2023
Up. Shoulder (m3)	62 131,00	-	-	-	-		10.05.2024
Shoulder Total (m3)	133 194,00	4 000	3 452,73	3%	2.6%	0.4%	20.06.2024
Binder (m3)	61 965,00	13 000	12 290.22	12.5%	11.8%	0.7%	20.06.2024
Wearing (m3)	41 998,00	10 028.37	6 978.38	24.3%	17%		29.04.2024
Asphalt Total (m3)	103 963,00	13 000	12290.22	12.5%	11.8%	0.7%	31.05.2024
Bridge 1 over the Tugol-Sai River							
Foundation (%)				100%	100%	0	03.07.2024
Substructure (%)				100%	90%	10%	31.07.2024
Superstructure (%)				100%	90%	10%	31.07.2024

42. The Contractor's work plan is undergoing revision and approval for the construction season 2024. The plan in Table 9 below is the most recent and is subject to changes.

Table 9: Indicative Contractor's Work Plan for 2024.

№	Work Description	Period	Start	End
1	**Construction schedule for the Epkin–Dykan road (69.7 km)**	**99 days**	**2024/3/11**	**2024/7/3**
2	**Subgrade**	**45 days**	**2024/3/11**	**2024/5/1**
3	Km 92+500 – 95+500	24 days	2024/3/11	2024/4/6
4	Km 112+700 – 119+400	45 days	2024/3/11	2024/5/1
5	**Subbase**	**68 days**	**2024/3/11**	**2024/5/28**
6	Km 106+240 – 111+020	20 days	2024/3/11	2024/4/2
7	Km 92+020 – 95+500	14 days	2024/4/11	2024/4/26
8	Km 112+000 – 124+020	48 days	2024/4/3	2024/5/28
9	**Base**	**72 days**	**2024/3/11**	**2024/6/1**
10	Km 89+500 – 91+980 and km 95+500 – 98+600 RHS	7 days	2024/3/11	2024/3/18
11	Km 106+240 – 111+020	12 days	2024/3/22	2024/4/4
12	Km 112+000 – 124+020	30 days	2024/4/6	2024/6/1
13	Km 91+980 – 95+500	9 days	2024/4/20	2024/4/30
14	**Wearing coarse (Section A km 149+040 – 159+200)**	**13 days**	**2024/3/11**	**2024/3/25**
15	Km 149+020 – 150+500	7 days	2024/3/11	2024/3/18
16	Km 157+000 – 159+200	6 days	2024/3/19	2024/3/25
17	Section A significant completion	0 days	2024/3/25	2024/3/25
18	**Wearing coarse (Section B km 124+000 – 149+040)**	**39 days**	**2024/3/26**	**2024/5/9**
19	Km 124+000 – 137+040	26 days	2024/3/26	2024/4/24
20	Km 142+020 – 144+100	10 days	2024/4/25	2024/5/6
21	Km 145+700 – 147+000	3 days	2024/5/7	2024/5/9
22	Section B significant completion	0 days	2024/5/9	2024/5/9
23	**Safety facilities at km 124+000 – 159+200**	**42 days**	**2024/3/26**	**2024/5/15**
24	Road signs	40 days	2024/3/28	2024/5/13
25	Road markings	42 days	2024/3/28	2024/5/15
26	Handover of works at sections A and B	0 days	2024/5/15	2024/5/15
27	**Binder coarse (section C km 89+500 – 112+000)**	**41 days**	**2024/3/16**	**2024/5/2**
28	Km 89+500 – 91+980 and km 95+500 – 98+600 RHS	6 days	2024/3/16	2024/3/22
29	Km 106+240 – 111+020	10 days	2024/3/29	2024/4/9

30	Km 91+980 – 95+500	7 days	2024/4/25	2024/5/2
31	**Binder coarse (section D km 112+000 – 124+010)**	42 days	2024/4/16	2024/6/3
32	Km 112+000 – 124+010	42 days	2024/4/16	2024/6/3
33	**Wearing coarse (section C km 89+500 – 112+000)**	46 days	2024/3/23	2024/5/15
34	Km 89+500 – 112+000	46 days	2024/3/23	2024/5/15
35	Section C significant completion	0 days	2024/5/15	2024/5/15
36	**Wearing coarse (section D km 112+000 – 124+010)**	24 days	2024/5/16	2024/6/12
37	Km 112+000 – 124+010	24 days	2024/5/16	2024/6/12
38	Section D significant completion	0 days	2024/6/12	2024/6/12
39	**Safety facilities at km 89+500 – 124+000**	**42 days**	**2024/5/16**	**2024/7/3**
40	Road signs	40 days	2024/5/16	2024/7/3
41	Road markings	42 days	2024/5/16	2024/7/3
42	Handover of works at section C and D	0 days	2024/7/3	2024/7/3
43	**Bridge (section E)**	**99 days**	**2024/3/11**	**2024/7/3**
44	Prefabrication and hauling of the T-beam by the manufacturer	84 days	2024/3/11	2024/6/15
45	Construction pier cap	21 days	2024/3/11	2024/4/3
46	Demolition of existing structures	7 days	2024/6/8	2024/6/15
47	Beam installation and casting of the connecting part	14 days	2024/5/30	2024/6/14
48	Construction of a concrete barrier	7 days	2024/6/15	2024/6/22
49	Preparatory layer	5 days	2024/6/24	2024/6/28
50	Construction of bridge approaches	11 days	2024/6/21	2024/7/3
51	Bridge work handover	0 days	2024/7/3	2024/7/3
52	**Ancillary work**	**99 days**	**2024/3/11**	**2024/7/3**
53	Metal guard-railing	99 days	2024/3/11	2024/7/3
54	Lighting installation	63 days	2024/3/11	2024/7/3
55	Snow protection fence	99 days	2024/3/11	2024/7/3
56	Reinforced concrete barriers	99 days	2024/3/11	2024/7/3
57	Shoulder backfilling	99 days	2024/3/11	2024/7/3
58	Junctions	99 days	2024/3/11	2024/7/3
59	Longitudinal ditches	99 days	2024/3/11	2024/7/3
60	Sidewalks	99 days	2024/3/11	2024/7/3

61	Bus stops - pcs., restroom	99 days	2024/3/11	2024/7/3
62	Work handover	0 days	2024/7/3	2024/7/3

43. Below are the most significant challenges encountered by the Contractor during the period from 01.01.2024 to 04.30.2024:

44. - **Abnormal low temperature:** March 2024 was unusually cold, and the local temperature did not rise at the expected average rate, still minus 18 ℃ (see attached figure). This resulted in the contractor's plan to resume work on March 11 had to be postponed.

45. - **Km 106+300 crusher for base material:** Due to the limited equipment capacity of the substation in Kochkor, its output voltage is far below the rated voltage and extremely unstable. The voltage output through the transformer does not reach the rated voltage of 380V for motor operation, often fluctuating between 310-340V. On April 14, during prolonged operation at full load, a 110 kW electric motor burned out, causing the Crusher for the base material to stop at km 106+300.

46. - **Shortage of mineral filler:** The demand for mineral filler in the market is insufficient, with almost no other uses except for road construction. Suppliers do not have sufficient profits to expand production and update equipment, such as purchasing specialized transportation equipment. Due to poor management, the suppliers that previously provided mineral filler for China Road and Bridge Corporation and JV Sinohydro Corporation LTD have been closed, such reasons have led to the current tense situation of mineral filler supply. Since the special materials are required for the production of mineral filler and referring to the procurement practices of construction companies such as JV Sinohydro Corporation LTD, it is reasonable for the Contractor to adopt an external procurement model during construction. The root cause is local suppliers' shortage of mineral filler production and transportation equipment, resulting in difficulties in the material supply.

47. - **Asphalt production:** The crusher (for base) at km 106 has not been active for approximately 1.5 months. However, the asphalt plant at km 148 also has problems, and mineral filler material is not available. According to the production capacity of the Contractor's asphalt plant (type 3000, capable of producing 240 tons of asphalt concrete per hour), the Contractor can produce 1300 tons of SMA per day and complete a half-width paving length of no less than 2km. However, due to an insufficient supply of mineral filler material, the Contractor's SMA production is severely restricted, and the work cannot be carried out by average construction progress.

The average completion rate is less than 40% of the designed construction capacity, and the main reason for this impact is that the Contractor cannot obtain sufficient mineral filler. In the SMA mix design, the content of mineral filler accounts for 10.3%, and this material, like cement, can only be procured externally. However, there are only two companies in Kyrgyzstan that can produce and supply mineral filler, one is Khan Tengri Too Ken Baylygy LLC, and the other is Shamalin- Resource located in Kemin. Due to the short distance between the project location and the mineral filler supplier Khan Tengri Too Ken Baylygy LLC and a relatively small demand for mineral filler (less than 3%) for the production of binder asphalt, mineral filler was supplied by this company in the early stage of the project. In the case where the binder paving of the project had not yet been extensively unfolded, it could meet production needs to transport only one truck (20t) of mineral filler every 3-4 days. There was no severe supply shortage for the project from 2022 to 2023. As its business ability gradually declined and the large-scale paving of SMA began, its production and supply capacity were far from meeting production needs. Therefore, the Contractor found another mineral filler supplier, Shamalin-Resource, located in Kemin, for the mineral filler production and supply required for the project. However, with the

rapid progress of SMA this year, this supplier is also unable to guarantee sufficient supply every day.

The reason is that specialized tanker trucks cannot be rented in Bishkek. According to the production demand of the project, approximately 130 tons of mineral filler are required per day, but its supply is only about 20-40 tons per day, which is far from meeting production needs. According to the supplier, this situation may continue for about 20 days.

The mineral filler supplier, Shamalin—Resource, does not have sufficient transportation capacity to meet project requirements. To enhance its transportation services, the supplier has ordered specialized tanker trucks, which are expected to arrive in 15-20 days. In addition, the Contractor is urgently seeking a third mineral filler supplier.

48. - **Number of dump trucks**: After verification, there are 6 dump trucks in the second camp that are in a faulty state. Incomplete repair is due to a lack of mechanics. One dump truck in the main camp is in a faulty state (scrapped), totaling seven trucks. Short-term normal maintenance of dump trucks at the campsite, such as air filter dust removal, tire replacement, and other minor malfunctions, are considered normal maintenance activities and cannot be deemed as a fault state. Meanwhile, the Contractor has already leased 2 dump trucks. As of now, 38 dump trucks are operating normally. If, after repairing the equipment, the site construction requirements still need to be met, China Road and Bridge Corp. and JV Sinohydro Corporation Ltd will be looking for dump truck rental options.

49. However, it is worth noting that compared to 2023, the Contractor has made significant improvements in equipment support:

- the number of mechanics has been increased (two more Chinese mechanics, who are processing visa procedures, are expected to arrive at the site by the end of the July);

- additional equipment parts have been purchased;

- mechanical repair work has been reorganized, including forming a maintenance team at the camp and an on-site equipment emergency support team, as well as restoring a large number of equipment, with the equipment attendance rate increasing significantly.

50. During the winter, the ambient temperature drops below 5 °C, which is unsuitable weather for asphalt construction. Until the end of March 2024, activities mainly comprised building structures, subgrade, rock excavation, producing and storing crushed stone materials, and winter road maintenance.

51. 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 Annex 1.

52. Considering that the base course is 75% laid, and the prime coat of the road pavement is laid 70%, dust suppression is required only for 30% of the length of the road, where earthwork is still being carried out. In this regard, the number of water tank trucks was reduced twice compared to 2023.

53. To suppress dust in spring and summer, 4 - 5 water tankers were deployed, and in winter, 3 tankers were deployed daily from 7:30 a.m. to 7:00 p.m.

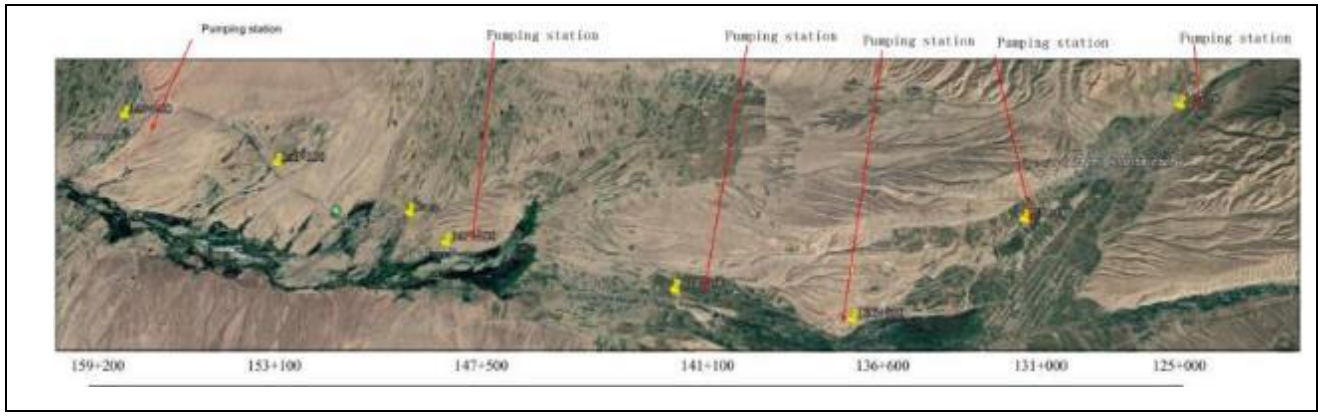


Figure 14: Water intake points for dust suppression along a project road.

54. 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 on roads.

2.3.2 Quarries.

55. 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. Table 10 shows the quantity of major works performed from 01.01.2024 to 30.10.2024.

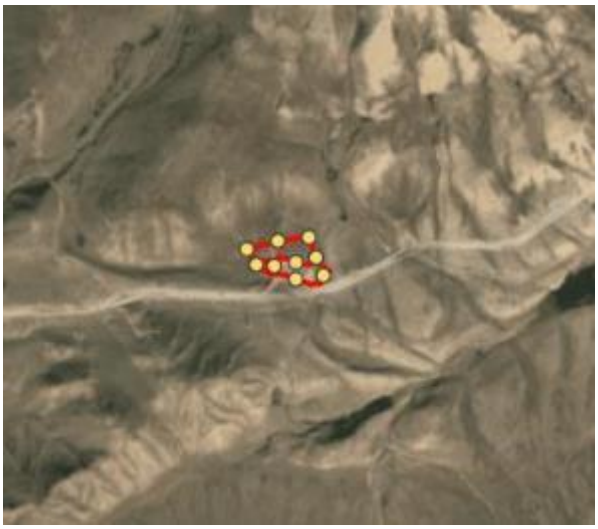
56. During the reporting period, the Contractor received an authorized permit for the expansion of quarries № 6 (km 106 + 420) and № 7 (km 110 + 900) from the MNRETS № 05-5/323, dated 01/23/24 (Annex).

57. 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.

58. 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 135+280 (the Jany-Aryk 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 № 13 (km 119+300).

Quarry № 10 (km 135+280).

Quarry № 12 (km 148+630).

Figure 16: GIS locations of the quarries' areas.

59. 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

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 23.01.24r		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	Not 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	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 06.04.2023r order Kochkor district administration 04.06.2023 act of zharandyk com.	Cholpon v.	9.6	98 142.0	Not being developed

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	
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	
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 7 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 8 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 Annex 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 Annex 7).

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 Annex 8).

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 area of the second construction camp (km 106+300).

The area of the second construction camp (km 106+300).

The area of the second construction camp (km 106+300).

The area of the second construction camp (km 106+300).

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. The location of reinforced concrete side drains B-3-2, provided for in the tender project, has been clarified, and the changes are as follows:

1. In the village of Kuiruchuk.
The tender project provides reinforced concrete side drains B-3-2 on the road's RHS section km 142+163 – km 143+109 L=923 m.
Since LR-6 reinforced concrete side drains are provided in this section, then B-3-2 reinforced concrete side drains are not required.
2. In the village of Tugol-Sai.
In the tender project, reinforced concrete side drains B-3-2 are provided on the LHS of the road, in sections km 149+956—km 150+185 L=229 m and km 150+198—km 150+358 L=160 m.
According to our research, it is necessary only on the LHS in the section km149+822-m150+000 (L=178m).
Instead of the above-mentioned unnecessary reinforced concrete side drains B-3-2, new places have been provided in the following sections:
• village Kuiruchuk km 143+140 - km 143+612 L=426 m LHS (see cross-section of roads)
• village Tugol-Sai km 149+270 - km 149+834 L=520 m RHS (see cross-section of roads)
• village Tugol-Sai km 149+822 - km 150+000 L=178 m LHS

81. The walls of the cemetery graves on the left side in section km 158+785-km 158+810 are located very close to the road (1-2 m from the side of the road); ditch water can create a danger for the walls of the graves. In this connection, on the section km 158+785 – km 158+810 on the left side, reinforced concrete trays B-3-2 were provided.

82. Installation of additional ditch sections and water gates on the left side of km 143+140-km 143+500.

83. Construction of additional ramp and longitudinal culvert at km148+705 RHS.

84. To improve social issues in the village of Jumgal, an additional ramp and a new longitudinal culvert measuring 0.5*0.5 m were provided at km 128+530 LHS of L=11.15 meters (the road to the park).

85. LP-6 type channel installation on the right side of km 141+100 and its connection with the entrance of the transverse culvert at km 141+105. A water gate will be added to the right inlet of the transverse culvert at km 141+105 to guide the water flow for irrigation of farmlands of Kuiruchuk village on the left side of the road.

86. Replacement of reinforced concrete posts for traffic signs with galvanized steel pipe posts.

87. 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.

88. 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.

89. In accordance with the terms of the contract, the contractor is required to have a separate ES, a road safety specialist and HSE. During the reporting period, a new HSE specialist of the Contractor was appointed - Dzhumaliev Bulanbek.

90. 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 base and the contractor's camp were conducted.

91. 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. The Corrective Action Plan was sent to the Contractor by official letter (Appendix 3).

92. 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.

93. Considering that the base course is 75% laid, and the prime coat of the road pavement is laid 70%, dust suppression is required only for 30% of the length of the road, where earthwork is still being carried out. In this regard, the number of water tank trucks was reduced twice compared to 2023.

94. To suppress dust in spring and summer, 4 - 5 water tankers were deployed, and in winter, 3 tankers were deployed daily from 7:30 a.m. to 7:00 p.m.

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

96. 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.

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

98. 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.

99. 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 (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**


REDMI NOTE 9 PRO
AI QUAD CAMERA


REDMI NOTE 9 PRO
AI QUAD CAMERA

Figure 24: Tree seedlings planted in pre-approved areas.

100.Since the BOQ provides 7,310 seedlings for planting, the Contractor proposed planting more seedlings along the road to improve the environmental situation by creating a dense green barrier. By increasing tree planting density, the objective of effective dust suppression and environmental improvement will be achieved.

101. Plans for compensatory tree planting in the amount of 5400 trees on 7 sections of the road were submitted in June 2024 and are currently under consideration by the Engineer.

Table 13: Proposed locations for additional compensatory tree planting along the road.

Location/LHS				**Location/RHS**			
Start/km	Finish/ km	Row(s)	Quantity	Start/km	Finish/km	Row(s)	Quantity
km 151+460	km 152+200	14	3010	km 151+460	km 152+200	10	2000
km 148+200	km 147+800	2	500				
km 145+520	km 144+200	3	1000	km 145+300	km 143+600	2	1500
				km 140+700	km 140+300	2	500
km 137+000	km 136+600	2	500	km 137+000	km 136+600	2	500
km 134+500	km 134+000	2	500	km 134+500	km 134+000	2	500
				km 126+600	km 126+400	3	400
Total:			5510				5400

Archaeological Objects of Historical and Cultural heritage.

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

103.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.

104.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 type, name, chronological attribution, and protected zones of the monuments. 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 25: Information board of the Historical and Cultural Heritage Site (HCHS).

3.2 Site Audits.

105.Table 14 shows on-site inspections/audits carried out by the Consultant Local Environmental Specialist and Contractor Environmental Engineer at the project site during the reporting period. Environmental monitoring starting in April 2024. Since April, the contractor has resumed construction work on the project site due to weather conditions. Taking this into account, the consultant's ES has commenced monitoring since April 2024.

Table 14: Inspections/Audits of the project area.

№	Date of Visit	Auditor name	Purpose of Inspection/Audit	Summary of any Significant Findings
1	03.04.2024	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 arrange “G” and “L” indicating signs at the door of WC; 2. To organize boxes for household and other waste in the new camp; 3. To conduct monthly briefings for working personnel, including an initial briefing on labor protection; 4. To prepare and provide the Consultant with a Safety and Environmental Protection Training Plan for 2024;

№	Date of Visit	Auditor name	Purpose of Inspection/Audit	Summary of any Significant Findings
				5. To prepare a dust suppression plan for the project site for 2024 and submit it to the Consultant; 6. According to clause 3.1.2. of the Health and safety management plan (HSMP) of SSEMP, clause 7.4 of the EMP “HIV/AIDS Plan,” to conduct lectures for the Contractor’s personnel with the involvement of healthcare practitioners of the regional hospital; 7. To provide information materials to workers about HIV and STD prevention in booklets, brochures, and posters in Kyrgyz, Chinese, and Russian, to include information on HIV/STD prevention measures in the employment contract; stop and punishment of drug and alcohol abuse; 8. To ensure the availability of information materials (posters) with contact details of all emergency services in case of emergencies in Kyrgyz, Chinese, and Russian languages on the territory of construction camps (km 106+300 and km 148+630).
2	17.04.2024	Abdygulov A. (PIU ES) Nurdinov N.	Visual monitoring of the environmental conditions at the project site.	The contractor has been instructed to maintain cleanliness on the camp site. The quarry sites have been inspected. Noncompliance have not been found.
3	26.04.2024	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. There are no indicating signs at the door of WC; 2. There is no HSE specialist at the project site to conduct monthly briefings for working personnel, including initial briefings on labor protection; 3. To prepare and provide the Consultant with a Safety and Environmental Protection Training Plan for 2024; 4. To prepare a Dust Suppression Plan for the project site for 2024 and submit it to the Consultant; 5. The availability of information materials (posters) with contact details of all emergency services in Kyrgyz, Chinese and Russian on the territory of camps (km 106+300 and km 148+630) is not ensured.

№	Date of Visit	Auditor name	Purpose of Inspection/Audit	Summary of any Significant Findings
4	17.04.2024	Abdygulov A. (PIU ES) Nurdinov N.	Visual monitoring of the environmental conditions at the project site.	The contractor has been instructed to maintain cleanliness on the camp site. Noncompliance have not been found.
5	23.05.2024	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 remove household and construction waste from the production site and provide garbage cans; 2. To remove construction waste from the camp site and remove waste from the waste site on a timely basis; 3. To prevent spillage of fuel and lubricants and equip a fire-fighting box next to the gas station; 4. To provide working personnel with special clothing - PPE; 5. To prepare a dust suppression plan for the project site for 2024 and submit it to the Consultant; 6. To ensure the availability of information materials (posters) with contact details of all emergency services in case of emergencies in the Kyrgyz, Chinese and Russian languages on the territory of construction camps (km 106+300 and km 148+630).
6	17.04.2024	Abdygulov A. (PIU ES) Nurdinov N.	Visual monitoring of the environmental conditions at the project site.	The quarry sites have been inspected.
7	28.06.2024	Syzonenko O. Jumaliev T. Nurdinov N.	Visual inspection to ensure compliance with environmental requirements at construction sites, quarries, dumps, campgrounds, and	Following the results of this visit, a number of violations of the SSEMP requirements and the Asian Development Bank Safeguard Policy were identified. Based on this, a Corrective Action Plan was prepared (Annex 3).

№	Date of Visit	Auditor name	Purpose of Inspection/Audit	Summary of any Significant Findings
			production areas. The visit was conducted jointly with the Contractor's environmental specialist.	

106.Findings observed during the Consultant's audit were communicated to the contractor for corrective actions. 6 non-compliances were raised; 5 were corrected (closed), and 1 actions remained open/ongoing.

107.Based on the results of the Environmental Checklists, Engineer send to the Contractor in an official letter.

108.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.

109.The status of non-compliance and corrective actions is also shown in Figure 16.

110.Table 15 summarizes the findings observed during the formal audit conducted by the Consultant and Contractor's environmental specialists and the status at the end of June 2024.

ADB Mission.

111. ADB mission will be carried out in July 2024.

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

112. 6 findings were observed; 5 closed, and 1 remained open/ongoing. The table below provides a summary overview.

Table 15: Overview of findings observed during January- June 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 June 2024
1	Waste management	Annex (ix) – Solid and Liquid Waste Management Plan Gentek Ref.: April 3, 2024/615 Gentek Ref.: May 23, 2024/646 Gentek Ref.: September 28, 2023/467 Gentek Ref.: October 18, 2023/492 Gentek Ref.: November 22, 2023/526	Waste separation. The availability of sealed containers for collecting hazardous waste, such as oiled rags and soil/sand contaminated with oil products. Keep records of waste collection and disposal.	To organize boxes for household and other waste in the camp (km 106+300). Remove construction waste from the campsite and the waste site on time.	The contractor must eliminate by the end of June 2024	No reply letter	The non-compliance needs to be corrected. The Consultant sent a Corrective Action Plan by official letter to Gentek Ref.: June 28, 2024/671.
2	PPE	Annex (xii) – Camp and Workshop Management Plan Gentek Ref.: May 23, 2024/646	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	To provide all working personnel with a full PPE; monitor that PPE is in good condition and personnel wear it.	The Contractor's safety engineer will strengthen supervision activities to improve performance and prevent improper	Contractor's Ref.# CR5-ED-684. Dated: 05.07.2024	Done. The contractor provided the personnel with the missing personal

№	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 June 2024
		Gentek Ref.: October 18, 2023/492	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.		wearing or working without PPE. Contractor has stored enough PPE for workers to receive and replace. The Contractor has been supervising workers to wear PPE at any time during on-site construction.		protective equipment
3	Camp	Annex (xii) – Camp and Workshop Management Plan Gentek Ref.: April 3, 2024/615 Gentek Ref.: April 26, 2024/627	Living and office spaces in construction camps should provide all the necessary conditions for the full-fledged work, rest, and accommodation of the personnel.	To arrange “G” and “L” indicating signs at the door of WC.	The contractor must eliminate by the end of June 2024		Done
4	Safety instructions	SSEMP, 5.1 Annex (xii) – Camp and Workshop Management Plan Gentek Ref.: April 3, 2024/615 Gentek Ref.: April 26, 2024/627 Gentek Ref.: May 23, 2024/646	To prepare a training plan for safety and adhere to it. Safety Meetings. Regular safety meetings should be conducted on a regular basis and require attendance by the safety representatives of Subcontractors unless otherwise agreed by the Engineer. In addition, toolbox talks may be envisaged to heighten	To conduct monthly briefings for working personnel, including an initial briefing on labor protection. There is no HSE specialist at the project site to conduct monthly briefings for working personnel, including initial briefings on labor protection	The contractor hired a HSE specialist – Bulanbek Dzhumaliev The Contractor conducts monthly briefings for the workforce, including initial occupational safety briefings.	Contractor’s Ref.# CR5-ED-684. Dated: 05.07.2024	Done. These issues will be monitored during future audits.

№	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 June 2024
			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 of obstructions and legible to read. Equipment, which is damaged, dirty, incorrectly positioned or not in working order, shall be repaired or replaced immediately.	To prepare and submit a Safety and Environmental Protection Training Plan for 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).			
5	Fire safety	SSEMP, 6.4 EMP Annex (xii) - Construction Site and Camp Management Plan Annex (xiii) - Materials Processing, Equipment Yard, and Storage Plan	Compliance with all requirements of fire safety in accordance with the Law of the Kyrgyz Republic dated June 7, 2016, No. 78 "On Ensuring Fire Safety." Provide primary fire-fighting equipment at the site, in particular, fire extinguishers and	To prevent spillage of fuel and lubricants and equip a fire-fighting box next to the gas station.	The contractor must eliminate by the end of June 2024		Done. The contractor cleaned up the fuel spills and installed the missing fire extinguishing equipment. These issues will be monitored

№	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 June 2024
		Gentek Ref.: May 23, 2024/646 Gentek Ref.: July 31, 2023/385 Gentek Ref.: September 28, 2023/467	firefighting accessories boards with required equipment. Regularly train workers on the use of firefighting equipment.				during future audits.
6	Health and safety	clause 3.1.2. of the Health and Safety Management Plan (HSMP), SSEMP, 7.4 EMP Gentek Ref.: March 14, 2024/605	Measures and actions for information dissemination include: - Conducting lectures for contractor personnel with the involvement of medical workers from the local hospital. - Providing informational materials on HIV and STI prevention to builders in the form of booklets, brochures, and posters in both Kyrgyz, Chinese and Russian languages. - Incorporating information on HIV/STI prevention measures into the employment contract. - Prohibiting and penalizing drug and alcohol abuse.	To hold a lecture on HIV/AIDS for the Contractor's personnel with the involvement of healthcare practitioners of the regional hospital and to ensure the availability of information materials on HIV and STI prevention in booklets, brochures, posters in Kyrgyz, Chinese and Russian at the construction camps (km 106+300 and km 148+630);	The Contractor carried out AIDS prevention training and submitted the Report on AIDS Prevention of Kyrgyzstan ED Project.	Contractor's Ref.# CR5-ED-598. Dated: 30.03.2024	Done.

№	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 June 2024
			- Considering the possibility of providing condoms to all Contractor employees throughout the contract. - Display posters with information about the spread of HIV/AIDS in construction camps in both Kyrgyz and Russian languages.				

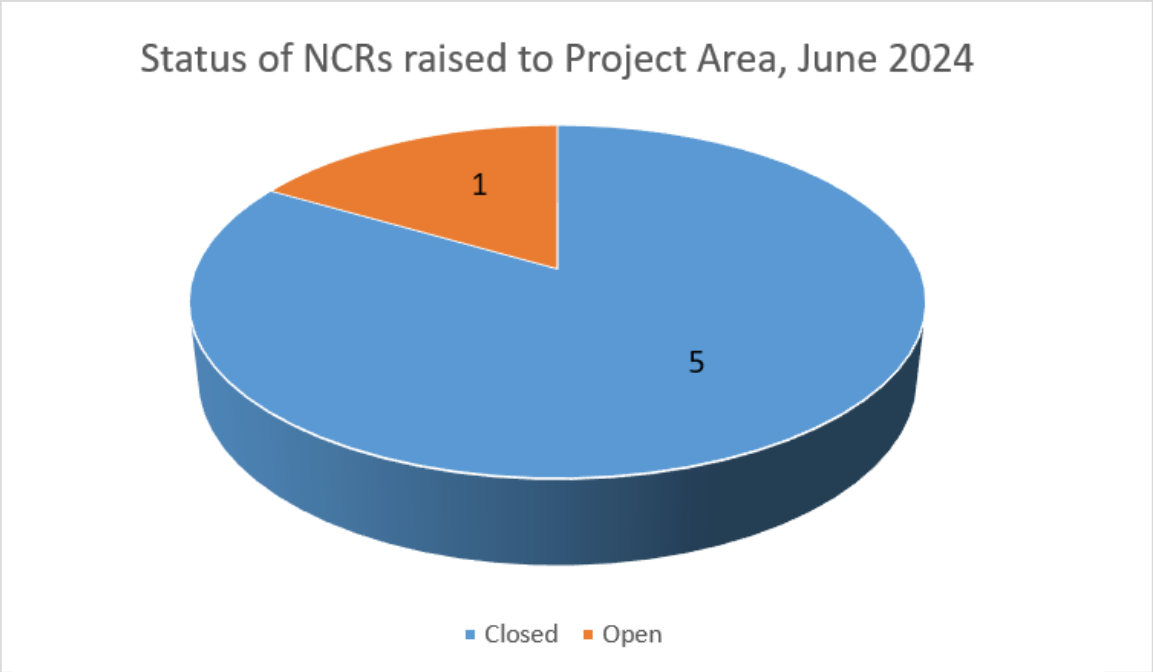


Figure 26: Status of Non-compliances and Corrective Actions.

Table 16: Summary of Issues Tracking Activity for the Current Period

Total Number of Issues for Project	6
Issues Open This Reporting Period	1
Issues Closed This Reporting Period	5
Percentage Closed Issues	90 %

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

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

- The road construction work has been carried out, including earthwork, construction of structures and pavements; production of asphalt concrete mix, concrete, and crushed aggregate fractions; cut excavation, embankment; completion of the installation of previously started culverts, as well as laying of new culverts and other relevant activities.
- The key personnel list has been updated and submitted by the Contractor.
- The contractor's response to Letters of non-compliance is feeble. In this regard, 2 trainings were held for the management team and responsible persons of the Contractor on environmental, social issues and safety issues, at which the importance of meeting the requirements of the SSEMP was conveyed. A Corrective Action Plan was also prepared (see Table 17).
- 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 thereof are highlighted in the Corrective Action Plan and strongly recommended for improvement.

Table 17: Corrective Action Plan.

№	Action	Requirement SSEMP/National legislation	Resources, Responsibility	Timetable	Comments
Environmental and Social Management System					
1	Maintain log books and records as per SSEMP	According to local legislation requirements	CR № 5 Environmental Specialist Nurlan Nurdinov HSE Engineer Bulanbek Dzhumaliev	Constantly	
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	According to local legislation requirements	CR № 5 Environmental Specialist Nurlan Nurdinov HSE Engineer Bulanbek Dzhumaliev	Constantly	
3	Maintenance of clean and tidy on the territory and installation of garbage cans	The para 2 of Appendix xiii SSEMP	CR № 5 Responsible person who will be appointed by the Project Manager	25/07/2024	
4	Ensure that restrooms are clean and have water, soap for hand washing, and toilet paper available	The para 2 of Appendix xii SSEMP	CR № 5 Environmental Specialist Nurlan Nurdinov	25/07/2024	

3.4 Trends.

114.There is a tendency to improve the situation regarding the elimination of inconsistencies identified by the Contractor. However, the contractor must be responsible to avoid repeated non-conformities identified by the Consultant during environmental inspections. The consultant conducted 2 trainings for the management team and responsible persons of the Contractor on environmental, social issues and safety issues, at which the importance of meeting the requirements of the EMP was conveyed.

3.5 Unanticipated Environmental Impacts or Risks.

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

116.In connection with the changes made to the Project (opening of the second construction camp and The Crushing and screening plant at km 106+300), the Contractor is obliged to perform the following actions, which are provided for in the Corrective Action Plan:

- Update the Contractors 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.

3.6 Summary of Appeals and Grievances.

117.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, PIU.

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

119. 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.

120.Environmental instrumental monitoring of noise levels, vibration, surface water, and air quality was conducted in June 2024.

121.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 19 shows the dates of sampling and analyses.

Table 18: Instrumental Monitoring Dates.

№	Monitoring name	Date of monitoring	Date analyses conducted
1	**Noise and Vibration**	04.06.2024 – 05.06.2024	07.06.2024
2	**Surface Water Quality**	04.06.2024	05.06.2024 – 10.06.2024
3	**Air Quality**	04.06.2024	05.06.2024 – 06.06.2024

122.The report presents the outcomes of instrumental monitoring measurements implemented during the reporting period in sections 4.1.1 to 4.6. Copies of laboratory protocols are attached in Annex 10.

4.1.1 Noise and Vibration Impact Monitoring.

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

124.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;

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

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

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

128.The results of instrumental noise measurements showed that at the time of measurements, noise levels in June were:

- in settlements - from 53 dBA to 65 dBA, which does not exceed sanitary standards;

- at construction sites - from 53 dBA to 73 dBA, which does not exceed sanitary standards for construction sites.

129.The results of instrumental vibration measurements in June showed the following levels:

- in settlements - from 90 dB to 94 dB, which does not exceed sanitary standards;

- at construction sites - from 90 dB to 97 dB, which does not exceed sanitary standards for construction sites.

130.The detailed results of noise and vibration impact monitoring are given in Annex 10.

Table 20: Noise monitoring results for the reporting period.

Date and time of monitoring	**Point Analysis**	***Measurement results (Sound level (dBa)***	***Acceptable Level (dBa)***
04.06.2024 Time from 12:40 to 16.40	New camp (km. 106+300)	73-81	108
	Jumgal v. (km.129+400)	64-67	108
	Kuiruchuk v. (km.144+000) «Azamat» shop	55-67	108
	Tugol Sai v., Crash plant, Asfalt plant	56-65	108
	Tugol Sai v.,«Kutman» shop	56-68	108

The results of noise measurements at selected points show that the permissible levels are not exceeded.

Table 21: Vibration monitoring results for the reporting period.

Date and time of monitoring	**Point Analysis**	***Measurement results (Sound level (dBa)***	***Acceptable Level (dBa)***
04.06.2024 Time from 13:30 to 16.30	New camp (km. 106+300)	*97-103*	*108*
	Jumgal v. (km. 129+400)	*91-97*	*108*
	Kuiruchuk v. (km.144+000) «Azamat» shop	*94-100*	*108*
	Tugol Sai v., Crash plant, Asfalt plant	*97-103*	*108*
	Tugol Sai v.,«Kutman» shop	*91-97*	*108*

The results of vibration measurements at selected points show that no exceedance of permissible standards was recorded.

Figure 27: Instrumental Monitoring on Project Road.

4.1.2 Surface Water Quality Monitoring.

131. 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.

132.According to Table 20 of the EIA, monitoring must include conductivity, temperature, and lead content. These parameters will be included in the subsequent monitoring. However, it is worth noting that since 2012, the ban on the use of leaded gasoline in Kyrgyzstan has decreased the amount of lead in gasoline to a safe level for the environment. Construction work also does not affect water bodies' temperature regimes and conductivity.

133. 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 irrigation canal at km141+874 Kuiruchuk village

Point 3. Water from the daily bondage basin at km 140+600 Kuiruchuk village

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

135. According to the results of chemical analysis in water samples, no excess of MAC (Maximum allowable concentration limits) for the cultural and household category was detected for any pollutant. The outcomes of surface water monitoring are given in Annex 10 and Table 20.

Table 22: The outcomes of surface water monitoring

Indicator	Units	Point Analysis Data			MAC	
		1	2	3	+	++
Water transparency	sm	38.0	41.0	39.0	-	
Suspended solids	mg/l	4.40	4.0	4.8	Increase in background concentrations on 0.25/0.75	
Biochemical oxygen demand (BOD_5)	mgO/l	2.84	1.98	2.47	3.0	4.0
Oil products	mg/l	0.037	0.042	0.032	0.05	0.3

4.1.3 Air Quality Monitoring.

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

137.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. Tugol-Sai village, north-eastern side of the Asphalt plant and Crusher, km 149+000;

Point 4. Tugol-Sai village, on the west side of the Kutman store, km 151+000;

Point 5. Kuiruchuk village, near the Azamat store, km 144+000;

138.Laboratory tests were carried out in accordance with the guidelines for the control of atmospheric pollution.

139.According to the results of atmospheric air tests, an excess of the MAC for nitrogen dioxide was found at point 2 (the village of Jumgal)—by 2.3 times, at point 4 (the village of Tugol-Sai)—by 2.2 times, and at point 5 (the village of Kuirukchuk)—by 2.2 times.

140.It should be noted that the national MAC for nitrogen dioxide is stringent (0.085 mg/m^3). According to WHO requirements, the MAC for nitrogen dioxide is 0.2 mg/m^3. This concentration exceeds national standards but meets WHO requirements.

141.It should also be noted that for points 1 and 3 (construction sites), the nitrogen dioxide concentrations do not exceed the MAC for the working area, which is 2.0 mg/m^3.

142.The monitoring outcomes are presented in Annex 2 and Table 23.

Table 23: The outcomes of air monitoring

Indicator	Units	Point Analysis Data					MAC, mg/m^3
		1	2	3	4	5	
Sulfur dioxide	mg/m^3	0.086	0.115	0.106	0.106	0.111	0.5
Nitrogen dioxide	mg/m^3	0.199	**0.195**	0.260	**0.187**	**0.189**	0.085
Carbon monoxide	mg/m^3	0.65	0.6	0.7	0.6	0.65	5.0
Particulate matter	mg/m^3	0.155	0.232	0.155	0.155	0.155	0.5

4.2 Trends.

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

144. Equivalent noise levels in settlements next to the road during the daytime were 53–65 dBA, and in the territory of construction sites, they were 53–73 dBA, which corresponded to sanitary standards.

145. Vibration levels were below the maximum permissible level and ranged from 90 dB to 97 dB both in settlements and on construction sites' territory.

146. Surface water quality parameters for all pollutants were within the MAC.

147. In general, there were no adverse trends in the measured ambient air parameters, the only exceptions being increased concentrations of nitrogen dioxide (national standards), which did not exceed the WHO requirements for ambient air in settlement areas.

4.3 Summary of Monitoring Outcomes.

148. In June, noise, vibration, surface water quality, and ambient air quality were sampled and analyzed in the assigned locations. The reports with detailed results of monitoring studies are presented in the Annex 10.

149. 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 53 to 65 dBA (i.e. below the daily permissible level set at 70 dBA), and in the territory of construction sites - from 53 to 73 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 90 dB to 97 dB.

150. Surface Water Quality Monitoring: Concentrations of pollutants were within the MAC at all stages of monitoring.

151. Air Quality Monitoring: All pollutants measured in atmospheric air samples taken at specified points were within the MAC levels. The exception was nitrogen dioxide. According to the results of atmospheric air tests, an excess of the MAC of nitrogen dioxide was found at point 2 (the village of Jumgal) - by 2.3 times, at point 4 (the village of Tugol-Sai) - by 2.2 times, at point 5 (the village. Kuirukchuk) – 2.2 times. It should be noted that the national MAC for nitrogen dioxide is stringent (0.085 mg/m^3). According to WHO requirements, the MAC for nitrogen dioxide is 0.2 mg/m^3. The concentration of nitrogen dioxide exceeds national standards but meets WHO requirements. An increase in nitrogen dioxide content was not recorded in the monitoring conducted in the previous reporting period, the 2nd half of 2023.

4.4 Material Resources Utilisation.

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

4.5 Waste Management.

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

154.Sewage is collected in stationary septic tanks in both 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. Solid waste from the two camps is transported to the landfill in Tugol-Sai village based on the agreement. The landfill of Tugol-Sai village is in use; the village government approved it with signed Order № 13b dated 18.04.22).

155.Observations of not timely utilization of domestic waste from the territory of Camps were made on several occasions.

4.6 Health and Safety.

4.6.1 Community Health and Safety.

156.The contractor has appointed a full-time HSE engineer - Bulanbek Djumaliev. There is no permanent medical staff involved in the project; in case of emergency or if any medical treatment is required, the local medical facility in the vicinity of the camp has been contracted for the provision of healthcare services.

157.During the reporting period, no road traffic or other accidents were reported that had serious consequences for the health of the local population.

158.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 time to fulfill were communicated to the Contractor in a formal way.

159.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 sand mix and salt sand mix have been applied over the project roadway as the main road safety operation during the cold season. In addition, the road construction equipment has been maintained to ensure the maximum serviceability.

4.6.2 Worker Safety and Health.

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

161. 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.

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

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

164. 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.

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

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

167. As the project scope expands and workers become more mobile, efforts to prevent sexually transmitted infections (STIs), immunodeficiency virus (HIV), and acquired immunodeficiency syndrome (AIDS) become particularly important on the construction site. To protect the health and life safety of project workers, raise awareness about the prevention of

STIs, HIV/AIDS, and reduce the risk of their transmission, the Contractor project department held an awareness-raising event on 23.03.2024.

Figure 28: Conducting awareness-raising work among workers from China

Figure 29: Conducting awareness-raising work among workers from Kyrgyzstan

Figure 30: Conducting awareness-raising work among workers from Pakistan.

4.7 Training.

168. The Contractor's Occupational Health and Safety (OHS) training program, as outlined in the OHS Management Plan (January 2022), 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.

169. 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."

170. In June 2024, the Contractor's HSE Engineer conducted occupational health and safety training for all workers on the following topics:

- Fire safety and first aid;
- Safety requirements when performing electric welding work;
- General questions regarding electrical safety at production bases, construction sites, and camps.

171. Also in June 2024, the Consultant's International Environmental Specialist provided training on the following topics:

- Management of production sites and camps, including waste management;
- Tree maintenance after planting.

Figure 31: Conducting training (June 2024)

172. The contractor's employees were provided with brochures on the briefing topic.

173. The protocol of the Engineer's briefing is presented in Annex 4.

5 SSEMP FUNCTIONING.

5.1 SSEMP Review.

174.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.

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

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

6 GOOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT.

6.1 Good practice.

177.The best practice in improving the SSEMP is to constantly (at least once a year) update the SSEMP and adapt all sub-plans to changing circumstances and conditions of the Project.

6.2 Opportunities for Improvement.

178.The Contractor is responsible for compliance with environmental standards and health and safety at the workplace. It is necessary to systematically continue increasing environmental awareness, HIV awareness, and mandatory safety training, such as safe behavior in the workplace, use of fire-fighting equipment, and first aid.

179.In connection with the changes made to the Project (opening of the second construction camp and The Crushing and screening plant at km 106+300), the Contractor is obliged to perform the following actions, which are provided for in the Corrective Action Plan:

- Update the Contractors Emergency Response Plan as a part of SSEMP to enhance protocols for avoiding occupational health and safety risks.

7 SUMMARY AND RECOMMENDATIONS.

7.1 Summary.

180. 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).

181. Reclamation has not been carried out at the 15 quarries, as they will continue to be used until all construction work on the project road section is completed.

182. Considering that the base course is 75% laid, and the prime coat of the road pavement is laid 70%, dust suppression is required only for 30% of the length of the road, where earthwork is still being carried out. In this regard, the number of water tank trucks was reduced twice compared to 2023.

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

184. During the reporting period, one stage of instrumental monitoring was conducted at specified and approved locations (in June).

- Equivalent noise levels in settlements next to the road during the daytime were 53–65 dBA, and in the territory of construction sites, they were 53–73 dBA, which corresponded to sanitary standards.
- Vibration levels were below the maximum permissible level and ranged from 90 dB to 97 dB both in settlements and on construction sites' territory.
- Surface water quality parameters for all pollutants were within the MAC.
- In general, there were no adverse trends in the measured ambient air parameters, the only exceptions being increased concentrations of nitrogen dioxide (national standards), which did not exceed the WHO requirements for ambient air in settlement areas.

185. During this reporting period, there was an improvement in the contractor's response to the elimination of identified non-conformities. However, the contractor must strive to avoid repeated non-conformities.

7.2 RECOMMENDATIONS.

186. It is necessary to keep the SSEMP updated in a timely manner and send it officially to the engineer.

187. The contractor should strive to avoid repeated non-conformities. For example, the engineer constantly raised the issue of cleaning and maintenance of the contractor's camp. At the time of preparation of the report, the situation on this issue had improved, but this is one example of the need to increase the "responsibility" of the contractor.

188.

Annex 1.

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

Environmental checklist for Camp and Workshop

Marking form ☑ ☒

Inspected by

day/month/year: 10/06/2021 Time (hour : min): 12 :30

CR № 5 ☑ ☐

Gentek ☑ ☐

Location, km: km 106+300

Weather conditions: ☑ ☒ | ☐ | ☑ | ☐

Temperature °C: 21 °C

Note: Wind – 9.4 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 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)?	☐	☒	See photo № 3.2
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??	☑	☐	See photo 4.1
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?	☑	☐	See photo 4.1
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	☐	☒	See photo 6.2
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	☐	☒	See photos 4.1 and 6.4
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 11/06/2024
6.6 Have you observed improper:			
- storage of wastes?	☑	☐	See photos 4.1 and 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
7.2 Are workers provided with PPE?	☐	☒	See photo 7.2
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?	☐	☒	
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
3.2	Wastewater is discharged onto the ground without a sewerage system, which is contrary to the para 2 of Appendix xii SSEMP (direct discharge of sanitary and sewage to the ground is prohibited)
4.1	Unusable machine parts and tires are located on the ground and not stored under cover, which categorically contradicts para 1.2 of the Appendix ix 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"
4.4	Spills are not cleaned up in a timely manner, which is contrary to the para 2 of Appendix xii SSEMP
4.5	Equipment and materials for fuel spill response are partly presented, which is contrary to the para 2 of Appendix xii SSEMP
6.2	Insufficient number of garbage cans on the campsite, which is contrary to the para 2 of Appendix xii SSEMP
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"
6.4	Contrary to para 2 of Appendix xii SSEMP, the workshop area isn't kept clean.
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

7.9	There is no smoking area, which is unsafe from a fire safety point of view.
7.10	There is no 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, which is contrary to the Annex xv of SSEMP

MITIGATING MEASURES

№	Mitigating measures for each discrepancy	Responsible
3.2	Wastewater should be discharged by the sewer system and collected in tanks that do not allow filtration. Ensure that wastewater from the sink is discharged into a storage tank using a sewer system.	Contractor
4.1	Ensure that unusable mechanical parts and tires are stored on a waterproof surface and covered.	Contractor
4.4	Appoint a responsible person on site and provide him with training on how to deal with spills. Provide the Engineer with this information by letter	Contractor
4.5	Equip fire shields with shovels (sand containers are available), and they can also perform spill control functions.	Contractor
6.2 and 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
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, 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
7.9	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	Contractor
7.10	Set up 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	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 on ecology management improvement
1	Update SSEMP to include the second camp and crushing and screening plant (km 106+300) and to add a Compensatory tree planting plan
2	Update the Contractors Emergency Response Plan as a part of SSEMP to enhance protocols for avoiding occupational health and safety risks
3	Maintain log books and records as per SSEMP
4	Ensure that the Contractor's environmental and health and safety officers are consistently on-site, conducting daily toolbox talks for workers, especialy those who operating heavy equipment
5	Improve housekeeping practices and address poor sanitary and hygiene conditions at the workers camp
6	Adhere to the SSEMP Corrective Action Plan, which outlines the measures that must be implemented.

IV - PHOTOS

№	Photo
3.2	 

4.1

4.5

6.2

6.3

6.4

7.1

7.2

V - PERSONS, WHO FILLED OUT THIS FORM

Name and Surname	Signature	Company	Position	Date
Olga Syzonenko		Gentek	International Environmental and Social Expert	10/06/2024
Talantbek Zhumaliev		Gentek	National Environmental Specialist	10/06/2024
Nurlan Nurdinov		CR № 5	Environmental Specialist	10/06/2024

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

Environmental checklist for Camp and Workshop

Marking form ☑ ☒

Inspected by

day/month/year: 10/06/2024 Time (hour : min): 17 :30 — CR № 5 ☑ ☐

Gentek ☑ ☐

Location, km: km 148 / 630

Weather conditions: ☐ ☑ ☐ Temperature °C: 20 °C

Note: Wind 10.1 m/s, SW

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

Description	Marking form Yes	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?	☑		See photo 2.3
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?	☑	☐	See photo 4.4
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	☐	☒	See photo 6.2
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	☐	☒	See photo 6.2
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 11/06/2024
6.6 Have you observed improper:			
- storage of wastes?	☑	☐	See photo 6.2
- 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
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?	☐	☒	
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
2.3	Signs of open fire were found in the camp, which is contrary to the para 2 of Appendix xii SSEMP
4.1	Unusable machine parts and tires are located on the ground and not stored under cover, which categorically contradicts para 1.2 of the Appendix ix 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"
4.4	Spills are not cleaned up in a timely manner, which is contrary to the para 2 of Appendix xii SSEMP
4.5	Equipment and materials for fuel spill response are partly presented, which is contrary to the para 2 of Appendix xii SSEMP
6.2	Insufficient number of garbage cans on the campsite, which is contrary to the para 2 of Appendix xii SSEMP
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"
6.4	Contrary to para 2 of Appendix xii SSEMP, the workshop area isn't kept clean.
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
7.9	There is a smoking area, but it is not adequately equipped, which is unsafe from a fire safety point of view.
7.10	There is no 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, which is contrary to the Annex xv of SSEMP

MITIGATING MEASURES

№	Mitigating measures for each discrepancy	Responsible
2.3	Fire safety rules must be followed. It is necessary to conduct fire safety training periodically.	Contractor
4.4	Appoint a responsible person on site and provide him with training on how to deal with spills. Provide the Engineer with this information by letter	Contractor
4.5	Equip fire shields with shovels (sand containers are available), and they can also perform spill control functions.	Contractor
6.2 and 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
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, 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
7.9	Mark the smoking area with a sign allowing smoking and provide a fireproof bucket for cigarette butts	Contractor
7.10	Set up 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	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 on ecology management improvement
1	Update SSEMP to include the second camp and crushing and screening plant (km 106+300) and to add a Compensatory tree planting plan
2	Update the Contractors Emergency Response Plan as a part of SSEMP to enhance protocols for avoiding occupational health and safety risks
3	Maintain log books and records as per SSEMP
4	Ensure that the Contractor`s environmental and health and safety officers are consistently on-site, conducting daily toolbox talks for workers, especialy those who operating heavy equipment
5	Improve housekeeping practices and address poor sanitary and hygiene conditions at the workers camp
6	Adhere to the SSEMP Corrective Action Plan, which outlines the measures that must be implemented.

IV PHOTOS

№	Photo
2.3	

4.4

4.5

7.1

7.9

V - PERSONS, WHO FILLED OUT THIS FORM

Name and Surname	Signature	Company	Position	Date
Olga Syzonenko		Gentek	International Environmental and Social Expert	10/06/2024
Talantbek Zhumaliev		Gentek	National Environmental Specialist	10/06/2024
Nurlan Nurdinov		CR № 5	Environmental Specialist	10/06/2024

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

Marking form ☑ ☒

Inspected by

day/month/year: 10/06/2024 | Time (hour : min): 16 :40 | CR № 5 ☑ ☐

Gentek ☑ ☐

Location, km: km 148+630

Weather conditions: ☐ sunny ☑ partly cloudy ☐ rain | Temperature °C: 20 °C

☑ ☒

Note: Wind – 10.1 m/s, SW

I ENVIRONMENT CONDITION EXAMINATION OF THE ASPHALT PLANT AND 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 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 May 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?	☐	☒	See photo № 1.12
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 ?	☑	☐	See photo № 3.1
3.2	Are equipment and materials available to clean up fuel spills?	☐	☒	See photo № 3.2
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 11/06/2024
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 № 1.12
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?	☑	☐	

6.3	Are workers provided with PPE?	☐	☒ Partly, see photo № 6.2
6.4	Maintenance of clean and tidy on the territory of the material processing plants	☐	☒ See photo № 1.12
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
1.12	Unusable machine parts and bitumen are not stored under cover, which is contrary to the para 1 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"
3.1	Spills are not cleaned up in a timely manner, which is contrary to the para 2 of Appendix xiii SSEMP
3.2	Equipment and materials for fuel spill response are partly presented, which is contrary to para 2 of Appendix xiii SSEMP
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"
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 the para 2 of Appendix xiii SSEMP.

MITIGATING MEASURES

№	Mitigating measures for each discrepancy	Responsible
1.12	It is necessary to organize the storage of bitumen and unusable machine parts under shelter or cover	Contractor
3.1	Appoint a responsible person on site and provide him with training on how to deal with spills. Provide the Engineer with this information by letter	Contractor
3.2	Equip fire shields with shovels (sand containers are available), and they can also perform spill control functions.	Contractor
5.4	Containers must be marked in accordance with the Decree of the Government of the Kyrgyz Republic dated January 15, 2010.	Contractor

	No. 9, "On approval of the classifier of hazardous waste and guidelines for determining the hazard class of waste"	
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 on ecology management improvement
1	Update SSEMP to include the second camp and crushing and screening plant (km 106 i 300) and to add a Compensatory tree planting plan
2	Update the Contractors Emergency Response Plan as a part of SSEMP to enhance protocols for avoiding occupational health and safety risks
3	Maintain log books and records as per SSEMP
4	Ensure that the Contractor's environmental and health and safety officers are consistently on-site, conducting daily toolbox talks for workers, especialy those who operating heavy equipment
5	Improve housekeeping practices and address poor sanitary and hygiene conditions at the workers camp
6	Adhere to the SSEMP Corrective Action Plan, which outlines the measures that must be implemented.

3.2

6.3

V - PERSONS, WHO FILLED OUT THIS FORM

Name and Surname	Signature	Company	Position	Date
Olga Syzonenko		Gentek	International Environmental and Social Expert	10/06/2024
Talantbek Zhumaliev		Gentek	National Environmental Specialist	10/06/2024
Nurlan Nurdinov		CR № 5	Environmental Specialist	10/06/2024

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

Environmental Checklist for the Crushing and screening plant

Marking form ☑ ☒

Inspected by

day/month/year 10/06/2024 Time (hour : min) 13:30

CR № 5 ☑ ☐

Gentek ☑ ☐

Location km 106+300

Weather conditions  Temperature °C  21 °C

☑ ☒ ☐ ☑ ☐

Note Wind – 9.4 m/s, SW

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1 - 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?	☐	☒	See photo № 1.8
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 11/06/2024
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?	☐	☒	Partially, see photo № 6.3
6.4	Maintenance of clean and tidy on the territory of the material processing plants	☐	☒	See photo № 5.3
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? ☑ ☐ See photo № 8.1

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
1.8	Unusable machine parts and bitumen are not stored under cover, which is contrary to the para 1 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"
3.2	Equipment and materials for fuel spill response are partly presented, which is contrary to para 2 of Appendix xiii SSEMP
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"
6.3	Not all personnel use PPE, which is contrary to the para 5 of SSEMP
6.4	The crushing and screening plant area is kept clean, except for the waste storage area, which is contrary to the para 2 of Appendix xiii SSEMP.
8.1	Livestock were spotted on the Site, which is contrary to the para 4 of Appendix vi SSEMP

MITIGATING MEASURES

№	Mitigating measures for each discrepancy	Responsible
1.8	It is necessary to organize the storage of bitumen and unusable machine parts under shelter or cover	Contractor
3.2	Equip fire shields with shovels (sand containers are available), and they can also perform spill control functions.	Contractor
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
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
8.1	Restricting access to the territory of unauthorized persons and livestock	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 on ecology management improvement
1	Update SSEMP to include the second camp and crushing and screening plant (km 106+300) and to add a Compensatory tree planting plan
2	Update the Contractors Emergency Response Plan as a part of SSEMP to enhance protocols for avoiding occupational health and safety risks
3	Maintain log books and records as per SSEMP
4	Ensure that the Contractor's environmental and health and safety officers are consistently on-site, conducting daily toolbox talks for workers, especialy those who operating heavy equipment
5	Improve housekeeping practices and address poor sanitary and hygiene conditions at the workers camp
6	Adhere to the SSEMP Corrective Action Plan, which outlines the measures that must be implemented.

IV – PHOTOS

№	Photo
1.8	

8.1

V PERSONS, WHO FILLED OUT THIS FORM

Name and Surname	Signature	Company	Position	Date
Olga Syzonenko		Gentek	International Environmental and Social Expert	10/06/2024
Talantbek Zhumaliev		Gentek	National Environmental Specialist	10/06/2024
Nurlan Nurdinov		CR № 5	Environmental Specialist	10/06/2024

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	10/06/2024	Time (hour : min)	13 :00 – 17:00	CR № 5	☑	☐
				Gentek	☑	☐

Quarry № Location, km	№ 1 (km 91+680) № 6 (km 106+420) № 7 (km 110+900) № 10 (km 135+280) № 12 (km 148+630) № 13 (km 119+300)

Weather conditions	☀	⛅	🌧	Temperature °C	🌡	20 - 21 °C
☑ ☒	☐	☑	☑			

Note	Wind – 9.4-10.1 m/s, SW

I - ENVIRONMENT CONDITION – EXAMINATION OF THE QUARRIES & BORROW PITS, VISUAL INSPECTION

Description	Marking form Yes	Marking form 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?	☑	☐	№ 1 (km 91+680) - № 04-9/12238 dated 03.10.19 № 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 № 10 (km 135+280) - № 04-04/10138 dated 02.08.18 and №03-6/2323 dated 04.03.20 № 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?	☑		

2. **Refueling**

2.1	Equipment refueling in the territory of Quarry		☒	
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**

In case of spill – Stop the work – Clean up.

Machines repair is not allowed at the Quarry site. Machines should be repaired in the auto-repair shop of the camp.

3.1	Is there a spillage of oil from machines	☑		See photo 3.1
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 place for collection of solid waste		☒	See the photo 5.1
5.2	Is there a tank for 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**

8.1 Have there been any other problems spotted during the site visit? ☑ ☐ See the photo 9.1

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
3.1	Spills are not cleaned up in a timely manner (№ 1 km 91+680 and (№ 13 km 119+300), which is contrary to the Appendix vi SSEMP
3.2	Equipment and materials for fuel spill response are not presented, which is contrary to the Appendix vi SSEMP
5.1	The quarries are not equipped with garbage cans, which is contrary to the Appendix vi SSEMP
9.1	In the section of quarry № 1, km 91+680, signs of open fire were found

MITIGATING MEASURES

№	Mitigating measures for each discrepancy	Responsible
3.1	Appoint a responsible person on site and provide him with training on how to deal with spills. Provide the Engineer with this information by letter	Contractor
3.2	It is necessary to equip quarries with shovels and marked containers for collecting soil contaminated with oil products	Contractor
5.1	It is necessary to equip all quarries with garbage cans	Contractor
9.1	Fire safety rules must be followed. It is necessary to conduct fire safety training periodically.	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 on ecology management improvement
1	Update SSEMP to include the second camp and crushing and screening plant (km 106+300) and to add a Compensatory tree planting plan
2	Update the Contractors Emergency Response Plan as a part of SSEMP to enhance protocols for avoiding occupational health and safety risks
3	Maintain log books and records as per SSEMP
4	Ensure that the Contractor`s environmental and health and safety officers are consistently on-site, conducting daily toolbox talks for workers, especialy those who operating heavy equipment
5	Improve housekeeping practices and address poor sanitary and hygiene conditions at the workers camp
6	Adhere to the SSEMP Corrective Action Plan, which outlines the measures that must be implemented.

IV - POTOS

№	Photo
3.1	 

5.1

9.1

V PERSONS, WHO FILLED OUT THIS FORM

Name and Surname	Signature	Company	Position	Date
Olga Syzonenko		Gentek	International Environmental and Social Expert	10/06/2024
Talantbek Zhumaliev		Gentek	National Environmental Specialist	10/06/2024
Nurlan Nurdinov		CR № 5	Environmental Specialist	10/06/2024

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	10/06/2024	Time (hour : min)	12:20 – 18 :30	CR № 5	☑ ☐
				Gentek	☑ ☐
Location	km 89	500 – km 159	200		

Weather conditions	☐	☑	☑	Temperature °C	20 - 21 °C

Note: Wind – 9.4 – 10.1 m/s, 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?	☑	☐	See photo 1.2
1.3 Are the dust-polluted sections of the road irrigated properly?	☑	☐	See photo 1.2
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?	☑	☐	See photos 8.5 (2 296 trees were planted)
8.6 Are there any signs of possible diseases on the planted trees?	☑	☐	See photos 8.6
8.7 Are planted trees watered promptly?	☑	☐	See photos 8.7
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?	☐	☒	See photo 9.2
10. Health and safety of the residents/workers			
10.1 Does the Contractor conduct introductory and periodic safety training for workers?	☑	☐	Trainings were kept on 11/06/2024
10.2 Are the requirements for traffic management met?	☑	☐	
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 ☑ Water ☑ Soil ☑

No ☐ Noise, Vibration ☑ Air ☑

Date of sample collection	Date of laboratory analysis	Are the results available?
04-05.06.2024	10-11.06.2024	Yes ☐ If the answer is YES, please indicate the number and date of the letter with the protocols:_____ No ☑ If the answer is NO, please, indicate the date when the results will be provided: 30.06.2024

III - INCONSISTENCIES, MITIGATING MEASURES, INCIDENTS

INCONSISTENCIES

№	The character of discrepancy of ecological factors
8.6 and 8.7	An estimated 10% of trees planted may be affected by "poplar scab" (caused by the fungus Pollaccia radiosa) and "needle yellowing" (caused by the fungus Cyclaneusma minus). Or damage to some poplar shoots and pine needles may be due to excessive watering of the trees.
9.2	At approximately km 140+500, 29 crows hit by cars were found. This is due to active nests in the trees along the road and a field, which is a food source for birds.

MITIGATING MEASURES

№	Mitigating measures for each discrepancy	Responsible
8.6 and 8.7	- 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	Contractor
9.2	- 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)	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 on ecology management improvement
1	Update SSEMP to include the second camp and crushing and screening plant (km 106+300) and to add a Compensatory tree planting plan
2	Update the Contractors Emergency Response Plan as a part of SSEMP to enhance protocols for avoiding occupational health and safety risks
3	Maintain log books and records as per SSEMP
4	Ensure that the Contractor`s environmental and health and safety officers are consistently on-site, conducting daily toolbox talks for workers, especialy those who operating heavy equipment
5	Improve housekeeping practices and address poor sanitary and hygiene conditions at the workers camp
6	Adhere to the SSEMP Corrective Action Plan, which outlines the measures that must be implemented.

V - PHOTO

№	Photo
1.2	

9.2

VI - PERSONS, WHO FILLED OUT THIS FORM

Name and Surname	Signature	Company	Position	Date
Olga Syzonenko		Gentek	International Environmental and Social Expert	10/06/2024
Talantbek Zhumaliev		Gentek	National Environmental Specialist	10/06/2024
Nurlan Nurdinov		CR № 5	Environmental Specialist	10/06/2024

Annex 2.

CAREC CORRIDORS 1 and 3 Connector Road Project Engineering and Construction Supervision	Training Report Date: 11.06.2024 Place: Construction Office	Gentek Consult Ltd.

Project Number: 48401-008

Training courses subject:

- Camp and Workshop Management, including Waste Management / Управление строительными участками и лагерями, в том числе и обращение с отходами
- Tree maintenance after planting / Уход за деревьями после посадки

Duration (№ of hours) – 2 hours

PARTICIPANTS		
Name	Job position	Signature
[illegible]	[illegible]	
Нурланов Н	эколог	
Ящушашев Б.	инженер ПБ и ОТ	
Жакупбаев А.Б	помощник ген. менеджера	
Chen Tielian	Project Manager	
[illegible]	инженер	
Lichong Yang	инженер	
Liu Linkai	инженер	
Hejing Jin	инженер- механик	

TEACHERS		
Name	Job position	Signature
Olga Syzonenko/Ольга Сизоненко	International Environmental and Social Expert/ Международный эксперт по экологическим и социальным вопросам	
Talant Jamaliev / Талант Жумалиев	Environmental Specialist / Специалистом по охране окружающей среды	
Notes and /or remarks about the teaching material provided		
Presentations and Brochures / Презентации и брошюры		

Annex 3.

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

Эркин-Баш-Кугаилы

(дистанция км 89+500- 159+200 км)

Проект менеджер Чжанг Лян

«30» июня 2022

План по пылеподавление.

№ п/п	Гос. Номер машины	ФИО водители	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	Алисов Жоробай
2.	0048	Абдыллаев 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	Алисов 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	564	Койчуманов Р.	128+000 – 132+000	7: 30	19: 00		18	

Annex 4.

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 келишимди мыйзамдын чегинде түзүү Куйручук жайыт комитетинин төрагасы К. Чокоевке милдеттендирилсин.

3. Бул буйруктун аткарылышын көзөмөлө алуу жагын өзүмө калтырам.

Башчы Б. Абылабеков.

Эпкин -Баш-Куганды 148+530 с право 1800м(временно отвод земли под АБЗ-ДСУ)

Утверждена
Менеджер проекта

	X	Y
D1	1636923, 928	8320977, 109
D2	1637007, 833	8320990, 97
D3	1637103, 907	8320958, 611
D4	1637211, 313	8320964, 13
D5	1637309, 009	8320926, 871
D6	1637303, 282	8320828, 931
D7	1637102, 315	8320779, 315
D8	1637066, 688	8320787, 178
D9	1636985, 395	8320785, 035
D10	1636915, 138	8320791, 399

Согласовано

А О
ЖК

Annex 5.

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,Таны көч. 26
тел : 6-00-06, факс 6-00-06
эсеп № 12902750000025673
Кочкор КРБ №4405051001001136
МФК 129027
Кочкор ФААК «РСК Банк» Кочкор айыны
ИНН 02805199610046
ОКПО 20642203

КЫРГЫЗСКАЯ РЕСПУБЛИКА
НАРЫНСКАЯ ОБЛАСТЬ
КОЧКОРСКИЙ РАЙОН
АЙЫЛ ОКМОТУ
ЧОЛПОНСКОГО
АЙЫЛНОГО АЙМАКА
722815 с. Чолпон, ул.Таны 26
тел : 6-00-06, факс 6-00-06
р/с № 12902750000025673
Кочкор РОК № 4405051001001136
МФО 129027
Кочкорское ФОАО «РСК Банк» село 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 берге тургандыгыбызды билдиребиз.

Башчы **У.Өмүрбеков**

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

ДОКУМЕНТ ЭЛЕКТРОНДУК САНАРИП КОЛТАМГАСЫ 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	13516208.63
N10	4663719.54	13516206.63
N11	4663674.20	13516231.79
N12	4663657.31	13516262.86
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) ортнотуп иштетүүгө макулдук беребиз.

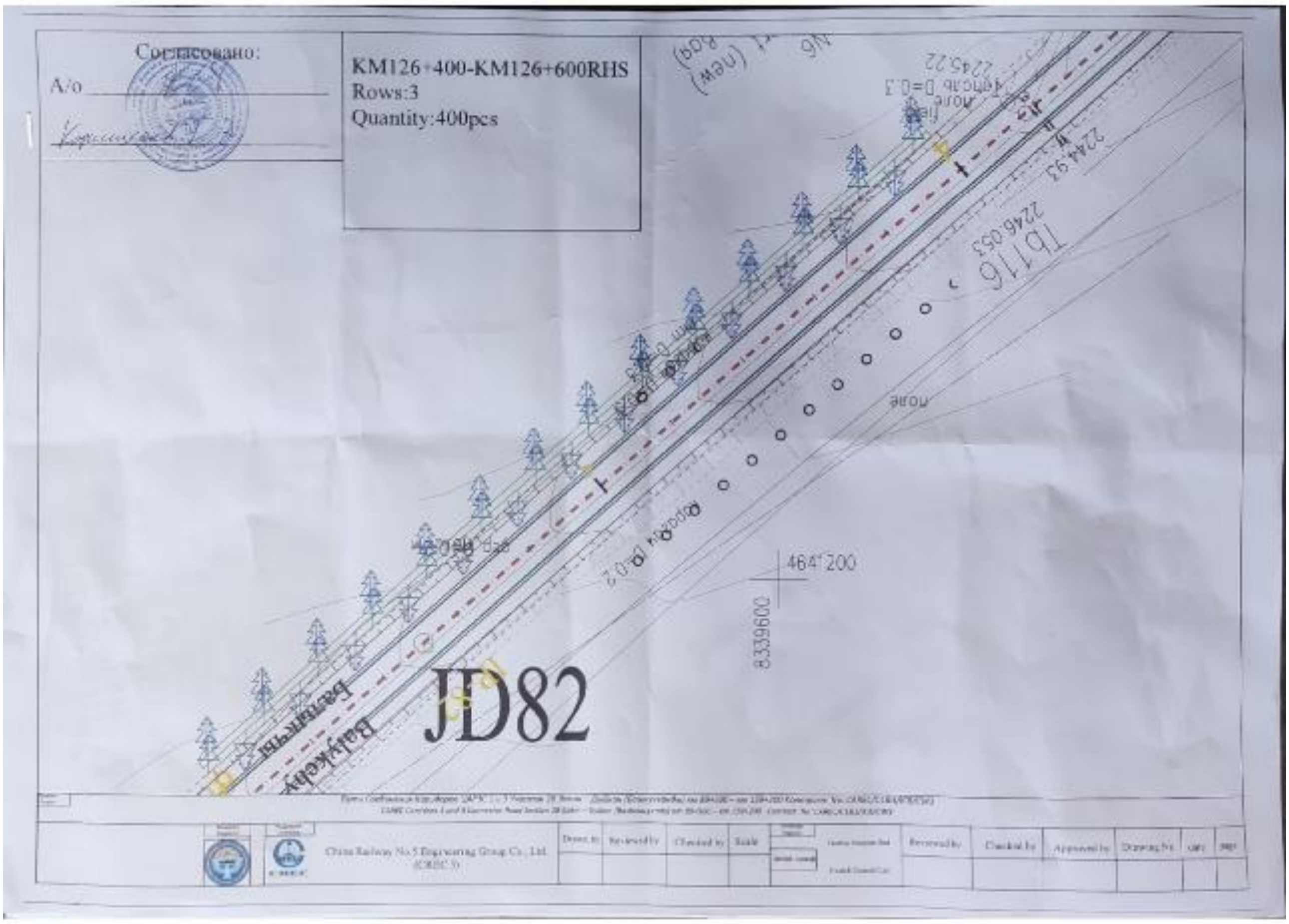
Кыргыз Республикасынын 1999-жылдын 16-июнундагы №53 мыйзамы "Айлана-чөйрөнү коргоо" жөнүндө жана Кыргыз Республикасынын 2009-жылдын 8-майындагы № 151 "Экологиялык коопсуздукту камсыз кылуу боюнча жалпы техникалык регламентинин" 13,15-беренелеринин, Жер казынасы жөнүндө мыйзамынын 20,29,35- беренелерине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

Башчынын орун басары: Р. Токталиев.

Атк:Акмалиев Т.

Тел: 0(3522)5-19-35

Annex 6.



Согласовано:
А/о
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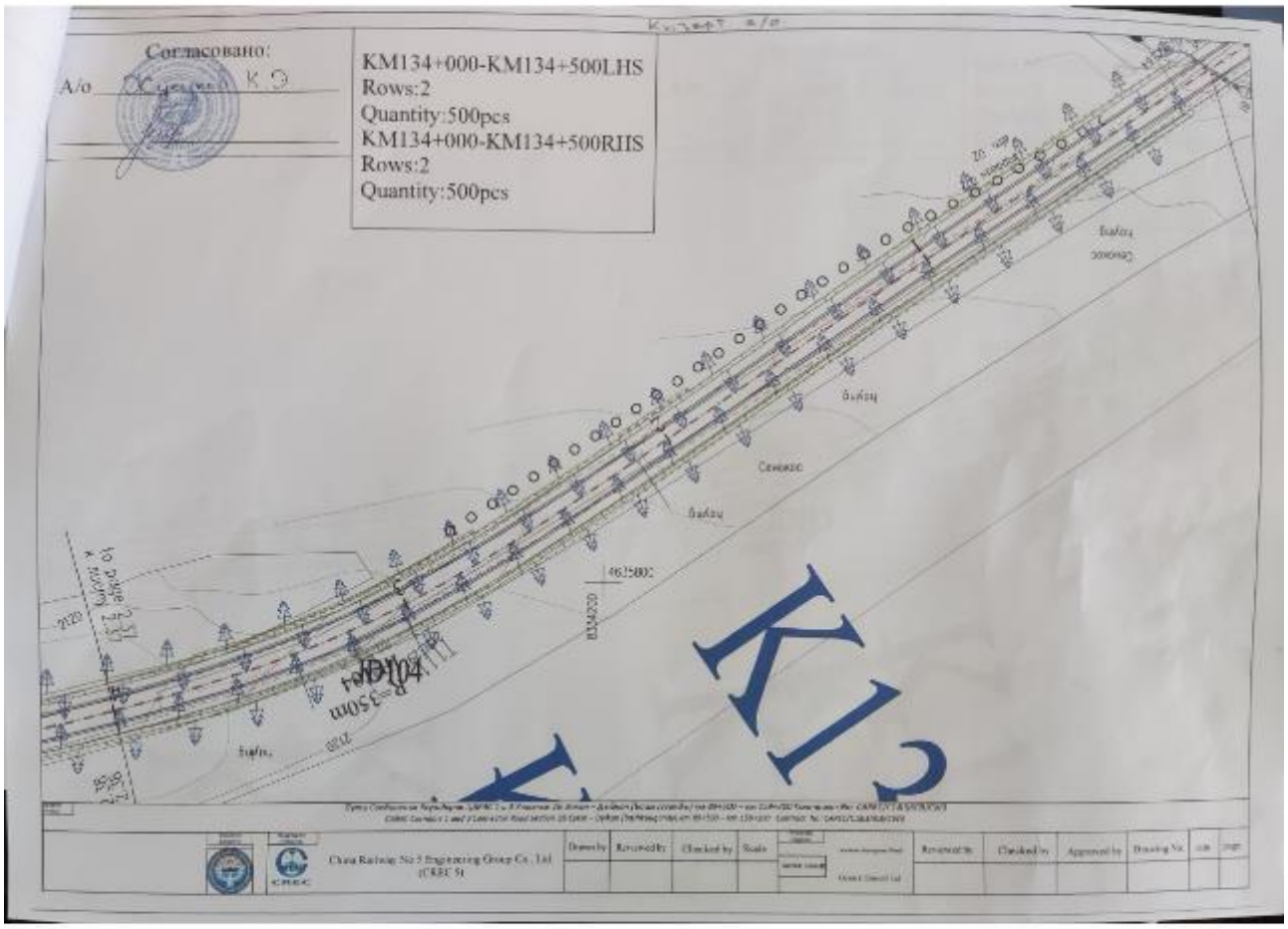
Rows:3
Quantity:400pcs
JD82
464 200
8339600
China Railway No.5 Engineering Group Co., Ltd.


Согласовано:
A/o
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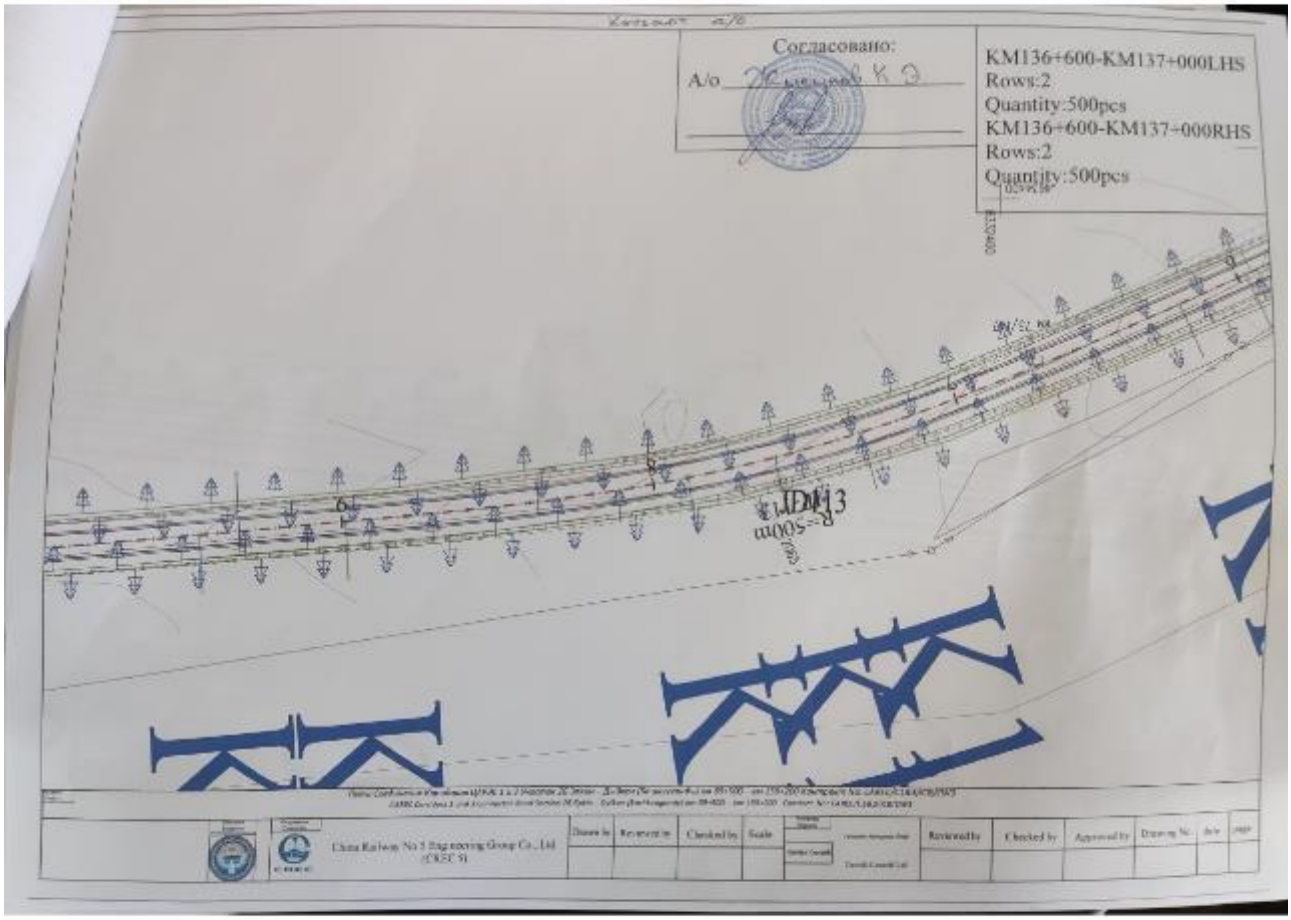
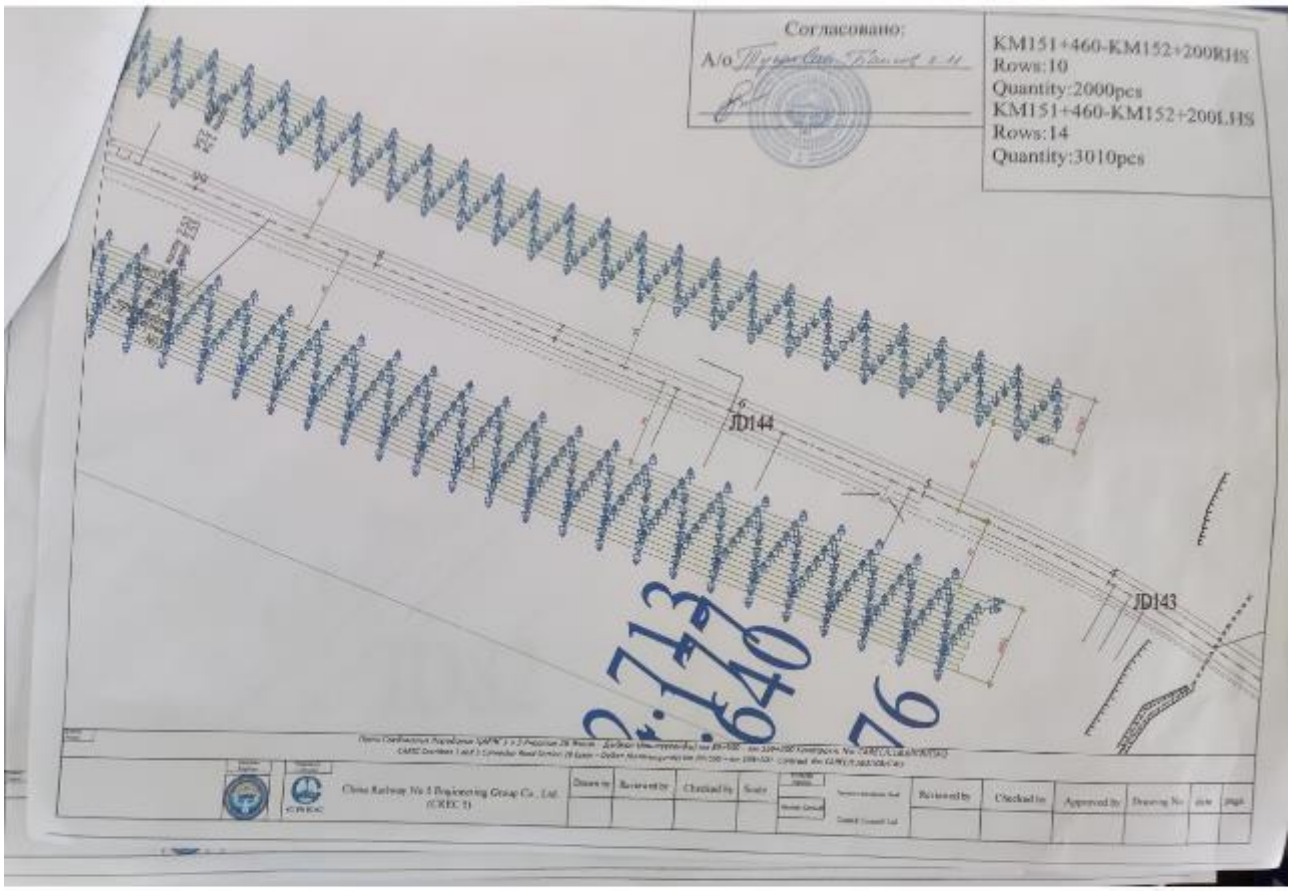
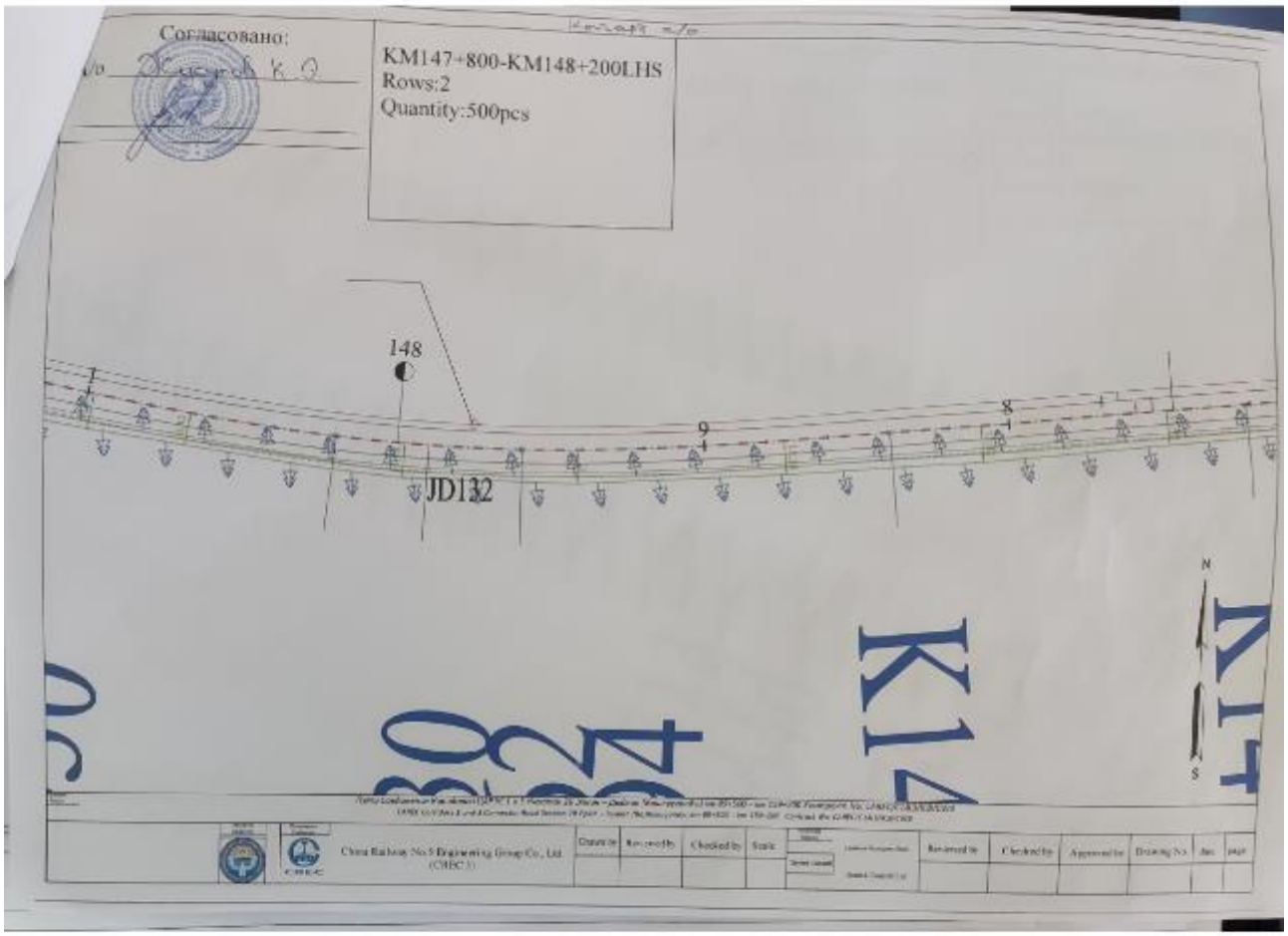
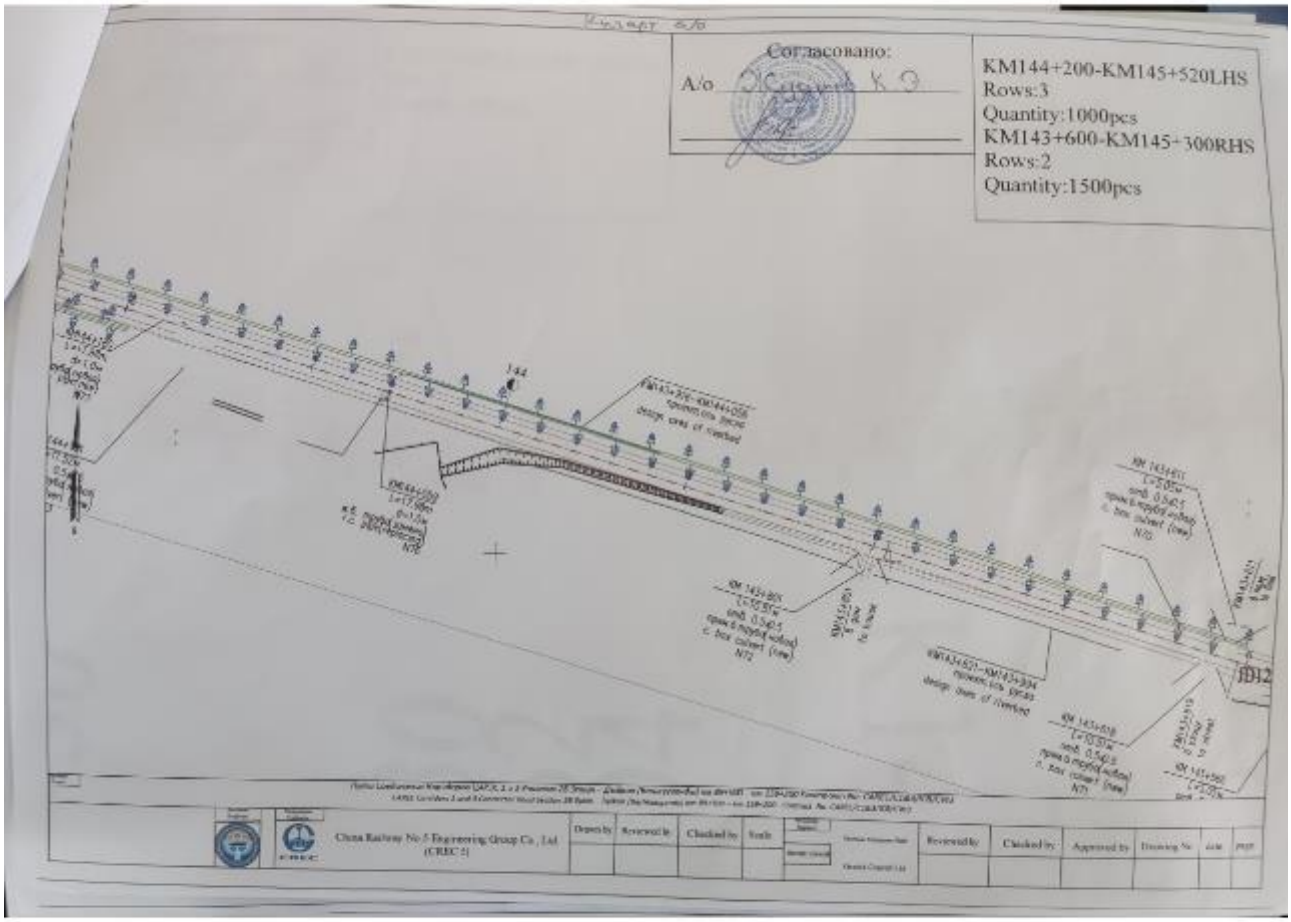
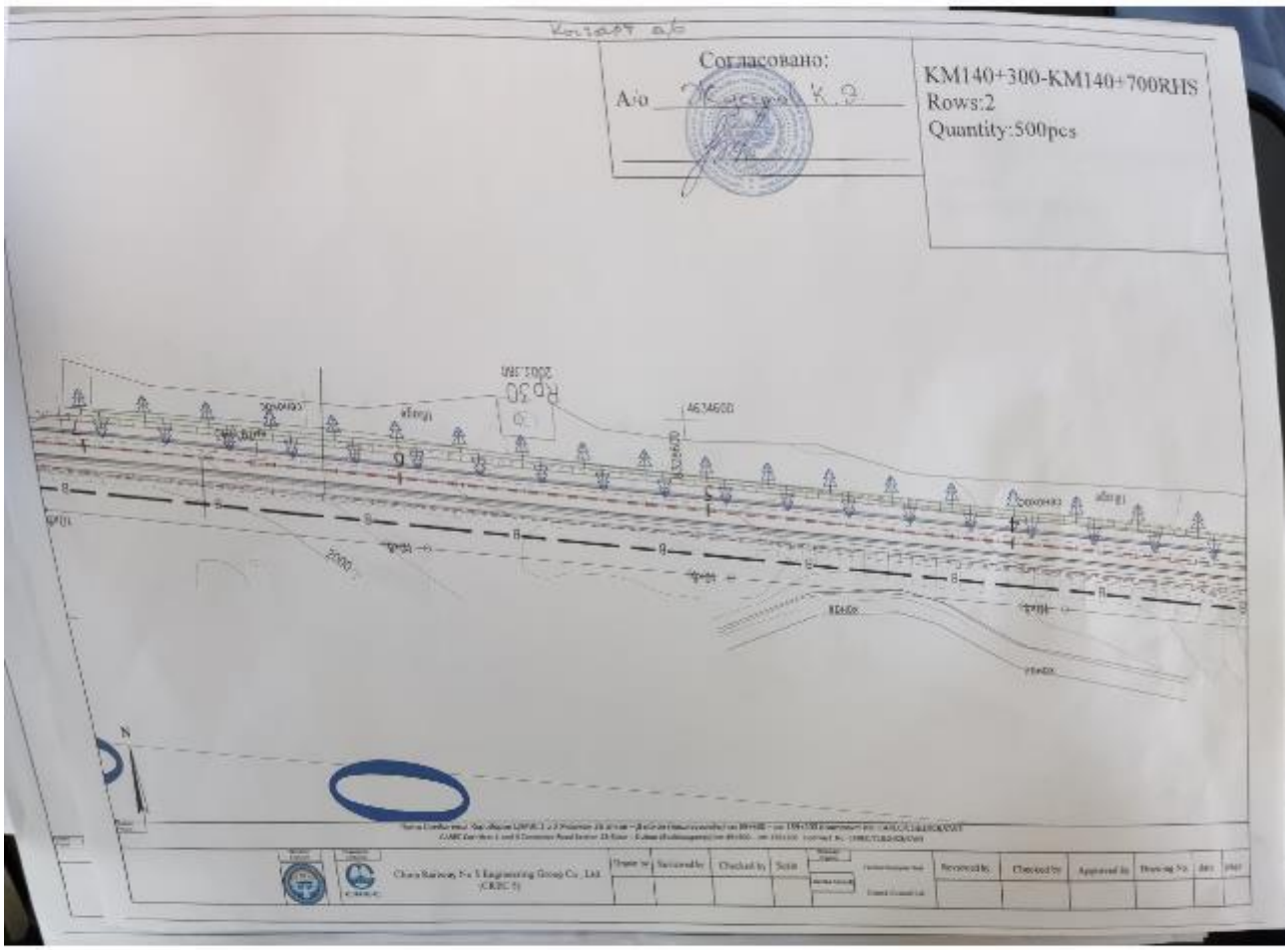
Rows:2
Quantity:500pcs
KM134+000-KM134+500RHS
Rows:2
Quantity:500pcs
JD104
R=350m
China Railway No 5 Engineering Group Co., Ltd
(CREC 5)


Согласовано:
A/o
KM136+600-KM137+000LHS
Rows:2
Quantity:500pcs
KM136+600-KM137+000RHS
Rows:2
Quantity:500pcs


Согласовано:
A/o
KM151+460-KM152+200RHS
Rows:10
Quantity:2000pcs
KM151+460-KM152+200LHS
Rows:14
Quantity:3010pcs
JD144
JD143
China Railway No.3 Engineering Group Co., Ltd.
(CREC 3)


Согласовано:
KM147+800-KM148+200LHS
Rows:2
Quantity:500pcs
148
JD132
K14
N
S


Согласовано:
A/o
KM144+200-KM145+520LHS
Rows:3
Quantity:1000pcs
KM143+600-KM145+300RHS
Rows:2
Quantity:1500pcs
China Railway No.5 Engineering Group Co., Ltd
(CREC 5)


Согласовано:
KM140+300-KM140+700RHS
Rows:2
Quantity:500pcs

Annex 7.

Аттестат аккредитации
№KG417/КЦА.ИЛ.049
от 12.08.2022
*-Вне аккредитации.

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. Байтык-Баатыра, 34 тел. (312) 54-61-26

ПРОТОКОЛ ИСПЫТАНИЙ ПРОБ ВОДЫ

№ 257 - 259

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

2. **Регистрационный номер и место отбора проб:**
   257 – речка, Чалай возле ДСУ км106+300;
   258 – село Куйручук, БСР км 140+600.
   259 – село Куйручук, ирригационный канал км 141+874.

3. **Дата и время отбора проб:**
   04.06.2024г. с 10 часов 00 мин.

4. **Нормативный документ:**
   Правила охраны поверхностных вод КР от 14 марта 2016-год №128; ПНД Ф 12.15.1-08 Методическая указания по отбору проб для анализа сточных вод.

5. **Дата(ы) проведения испытаний:**
   05.06 – 10.06.2024 г.

6. **Результаты испытаний:**

№ п/п	Наименование определяемого показателя	Ед. изм.	Данные анализа по точкам			ПДК		НД на метод испытаний	Испытания провел
			01-257-24	01-258-24	01-259-24	+	++		
1	Прозрачность	см	38,00	41,00	39,00	-		СЭВ ч.1 М. 1977*	Жунусова А.А.
2	Взвешенные вещества	мг/л	4,40±1,32	4,00±1,20	4,80±1,44	Увел. 0,25/0,75		ПНД Ф 14.1:2:3.110-97	
3	Биохимическое потребление кислорода ($БПК_5$)	мгО/л	2,84±0,74	1,98±0,51	2,47±0,64	3,0	4,0	ПНД Ф 14.1:2:3:4.123-97	Кутманбаева Г.К. Жунусова А.А.
4	Нефтепродукты	мг/л	0,037 ±0,013	0,042 ±0,015	0,032 ±0,011	0,05	0,3	ПНД Ф 14.1:2:4.128-98	

охраны поверхностных вод Кыргызской Республики от14 марта 2016 год № 128
ь ПДК для рыбохозяйственного водопользования
ень ПДК хозяйственно-питьевого и культурно-бытового водопользования
о допустимые концентрации химических веществ в воде водных объектов хозяйственно-питьевого и культурно бытового водопользования, Постановление ьства КР от 11 апреля 2016г. №201

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

По результатам химического анализа, в отобранных пробах воды, превышение ПДК (Предельно-допустимая концентрация) для культурно-ой категории не обнаружено.

Заведующая ОМВР Кутманбаева Г.К.

Заведующая ОАМКОП Дарбакова А.С.

ль не несет ответственности, если проба отобрана самим заказчиком
ка протокола без разрешения ДЭМ запрещена.
тдел мониторинга водных ресурсов (поверхностных и сточных вод)
· отдел аналитики, 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:** ОсОО «Китайская железнодорожная инженерная групповая компания №5» в Кыргызской Республике
2. **Основание для отбора:** Договор
3. **Порядковый номер и место отбора проб:**
   1. Река Чолок [illegible] ДСУ км 105+300 справа, 42.106489, 75.196032;
   2. ДСР км 140+500 (с. Куйручук), 41.990498, 74.868092;
   3. Ирригационный канал км 141+874 (с. Куйручук), 41.978381, 74.855568.
4. **Цель отбора:** Опред-ие кач-ва воды
5. **Характер отобранных проб:** разовые
6. **Условия окружающей среды** облачно
7. **Дата отбора проб** 04.06.2024г 10:00
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: вед. специалист [illegible] у Р. [подпись]

Представитель ДЭМ ____________
(должность, фамилия)

Присутствовали:

Госинспектор ____________
(должность, фамилия)

Представитель предприятия Нурдинов И эколог [подпись]
(должность, фамилия)

1 стр : з 1

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

Аттестат аккредитации
№KG417/КЦА.ИЛ.049
от 12.08.2022

*- Вне аккредитации

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

ПРОТОКОЛ ИСПЫТАНИЙ ПРОБ АТМОСФЕРНОГО ВОЗДУХА

№ 200 - 204

1. **Наименование предприятия, организации (заявитель):**
   Нарынская область, Жумгалский район, участок Эпкин – Баш-Кууганды. КОО "Китайская железнодорожная инженерная групповая компания №5" в Кыргызской Республике.

2. **Регистрационный номер и место отбора проб:**
   200 – Новая база км 106+300;
   201 – село Жумгал (возле школы);
   202 – село Тугол-Сай (северо-восточная сторона);
   203 – село Тугол-Сай (магазин Кутман, западная сторона);
   204 – село Куйручук (магазин Азамат, западная сторона);

3. **Дата и время отбора проб:**
   04.06.2024г., с 10 часов 40 минут.

4. **Нормативный документ:**
   ГОСТ 17.2.4.06 – 90 «Охрана природы. Атмосфера. Методы определения скорости и расхода газопылевых потоков, отходящих от стационарных источников загрязнения». ГОСТ 17.2.4.07 – 90 «Охрана природы. Атмосфера. Методы определения давления и температуры газопылевых потоков, отходящих от стационарных источников загрязнения».

5. **Дата(ы) проведения испытаний:**
   05.04-06.04.2024г.

6. **Результаты испытаний:**

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	03-200-24	0,086 ±0,010	0,5	Жолдошбекова З.Ж. Райкеева Р.Н.
Диоксид азота	РД 52.04.186-89	03-200-24	0,199 ±0,036	0,085	
Оксид углерода	СТП ДЭМ 03-01-2021 СТП ДЭМ 03-02-2021	03-200-24	0,65 ±0,13	5,0	
Взвешенные вещества	РД 52.04.186-89	03-200-24	0,155 ±0,039	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	03-201-24	0,115 ±0,014	0,5	Жолдошбекова З.Ж. Райкеева Р.Н.
Диоксид азота	РД 52.04.186-89	03-201-24	0,195 ±0,035	0,085	
Оксид углерода	СТП ДЭМ 03-01-2021 СТП ДЭМ 03-02-2021	03-201-24	0,6 ±0,12	5,0	
Взвешенные вещества	РД 52.04.186-89	03-201-24	0,232 ±0,058	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	03-202-24	0,106 ±0,013	0,5	Жолдошбекова З.Ж. Райкеева Р.Н.
Диоксид азота	РД 52.04.186-89	03-202-24	0,260 ±0,047	0,085	
Оксид углерода	СТП ДЭМ 03-01-2021 СТП ДЭМ 03-02-2021	03-202-24	0,7 ±0,14	5,0	
Взвешенные вещества	РД 52.04.186-89	03-202-24	0,155 ±0,039	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	03-203-24	0,106 ±0,013	0,5	Жолдошбекова З.Ж. Райкеева Р.Н.
Диоксид азота	РД 52.04.186-89	03-203-24	**0,187 ±0,034**	0,085	
Оксид углерода	СТП ДЭМ 03-01-2021 СТП ДЭМ 03-02-2021	03-203-24	0,6 ±0,12	5,0	
Взвешенные вещества	РД 52.04.186-89	03-203-24	0,155 ±0,039	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	03-204-24	0,111 ±0,013	0,5	Жолдошбекова З.Ж. Райкеева Р.Н.
Диоксид азота	РД 52.04.186-89	03-204-24	**0,189 ±0,034**	0,085	
Оксид углерода	СТП ДЭМ 03-01-2021 СТП ДЭМ 03-02-2021	03-204-24	0,65 ±0,13	5,0	
Взвешенные вещества	РД 52.04.186-89	03-204-24	0,155 ±0,039	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 проведенных испытаний атмосферного воздуха превышение предельно-допустимой концентрации (ПДК) максимально разовый, обнаружено по диоксиду азота – в точке №200 – 2,4 раза; в точке №201 – 2,3 раза; в точке №202 – 3 раза; в точке №203 – 2,2 раза; в точке №204 – 2,2 раза. Остальные испытания в пределах установленных норм.*

ГН «ПДК загрязняющих веществ в атмосферном воздухе населенных мест» Постановлением Правительства КР №201 (прил.№17) от 11 апреля 2016г.

Главный специалист СМАВ Жолдошбекова З.Ж.

Заведующая ОАМКОП Дарбакова А.С.

Исполнитель не несет ответственности, если проба отобрана самим заказчиком.
Перепечатка протокола без разрешения ДЭМ запрещена.
СМАВ - сектор мониторинга атмосферного воздуха (промышленных выбросов)
ОАМКОП- отдел аналитики, 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) 54-61-26

ПАСПОРТ НА ПРОБУ
(атмосферный воздух)

1. **Наименование, адрес объекта:** ОсОО «Китайская железнодорожная инженерная группа компания №5» в Кыргызской Республике
2. **Основание для отбора:** Договор
3. **Порядковый номер и место отбора проб:**
1 Новая база км 106+300 справа, 42.105556, 75.198665;
2. с. Жумгал (возле школы), 42.030112, 74.982858;
3. с. Тугол-Сай (северо-восточная сторона) АБЗ и ДСУ, 41.992770, 74.764423;
4. с. Тугол-Сай (магазин Жумгал западная сторона), 41.983960, 74.758192;
5. с. Куйручук (магазин Азамат западная сторона), 41.991767, 74.821185
4. **Цель отбора:**
5. **Характер отобранных проб:** разовые
6. **Условия окружающей среды** обычные
7. **Температура перед аспиратором:** 14°
8. **Атмосферное давление:** 615 мм рт. ст
9. **Дата отбора проб:** 04.06.2024 г 10:40 ч
10. **НД на отбор проб:** ГОСТ 33007-2014, 17.2.4.06-90

Пробы отобрал: вед. специалист Мамбетов У Р
Представитель ДЭМ
(должность, фамилия)
Присутствовали:
Госинспектор
(должность, фамилия)
Представитель предприятия Эколог подрядчика Нурдинов
(должность, фамилия)

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

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

ПРОТОКОЛ ИЗМЕРЕНИЯ ВИБРАЦИИ

№ 09 от «7» июня 2024г.

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

2. Объект, где 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 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**

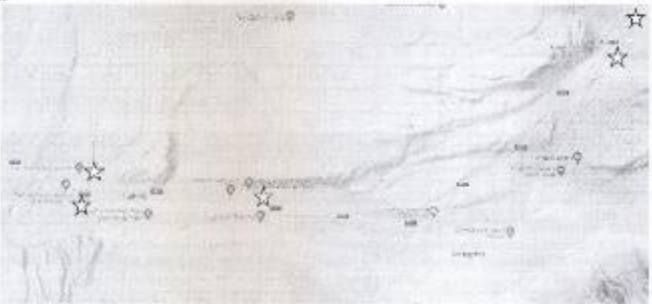
6. Нормативная документация на нормы: **Санитарные нормы 2.2.4./2.1.8.566-96. «Производственная вибрация, вибрация в помещениях, жилых и общественных зданиях»**

7. Условие окружающей среды: Температура: 14°C

Влажность: 68%

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

9. Эскиз:



Места где были произведены замеры. Контрольная точка- ☆

10. Дата произведение измерения: «04-05» июня 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								
		Транспортная (технологическая вибрация)		Технологическая		2	4	8	16	31,5	63	Частотная коррекция W_m (дБ)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Новая База 106+300км. Время 12:30												
	Дата 04.06.24												
1	Leq					104	92	71	65	61	61	**97**	Уровень вибрации
	Slow max	+										**103**	
	с. Жумгал, рядом со школой на дороге. Левая сторона , км- 129+400. Время 13:30												
	Широта: 42° 42'33; долгота: 75°50'44''.												
2	Leq					94	91	88	64	59	60	**91**	Уровень вибрации
	Slow max	+										**97**	
	с. Куйручук, рядом с магазином "Азамат" .западная сторона км 144+000. Время 15:30												
	Широта: 42° 1'30; долгота: 74°58'35''.												
3	Leq					94	91	86	62	59	60	**94**	Уровень вибрации
	Slow max	+										**100**	
	Северо-восточная сторона АБЗ и ДСУ. С. Тугол-Сай 149+000. Время 16:00												
	Широта: 41° 59'33''; Долгота: 74°45'51''.												
4	Leq					95	92	88	85	62	60	**97**	Уровень вибрации
	Slow max	+										**103**	
	с. Тугол Сай, рядом с магазином «Кутмано» южная сторона дороги 151+000км. Время 16:30												
	Широта: 41°58'56; долгота: 74°49'49''.												
5	Leq					95	92	89	86	59	60	**91**	Уровень вибрации
	Slow max	+										**97**	
	Новая База 106+300км. Время 17:30												
6	Leq					94	91	85	67	61	62	**95**	Уровень вибрации
	Slow max	+										**100**	
	с. Жумгал, рядом со школой на дороге. Левая сторона , км- 129+400. Время 18:00												
	Широта: 42° 42'33; долгота: 75°50'44''.												
7	Leq					97	91	82	73	64	61	**90**	Уровень вибрации
	Slow max	+										**99**	
	с. Куйручук, рядом с магазином "Азамат" .западная сторона км 144+000. Время 18:30												
	Широта: 42° 1'30; долгота: 74°58'35''.												
8	Leq					95	90	84	67	58	63	**91**	Уровень вибрации
	Slow max	+										**96**	

Общее количество страниц 3: страница 2

Результаты измерений:

№	Место измерений	Вид вибрации: Общая: Транспортная	Общая: Технологическая	Общая: Комплексная	Локальная	Уровни звукового давления в дБ в октавных полосах со среднегеометрическими частотами в Гц: 2	4	8	16	31,5	63	Корректированные и эквивалентные корректированные значения и их уровни: Частотная коррекция Wи (дБ)	
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 18:50												
	Широта: 41° 59'33''; Долгота: 74°45'51''.												
9	Leq					94	90	82	64	60	65	**93**	Уровень вибрации
	Slow max	+										**97**	
	с. Тугол Сай, рядом с магазином «Кутман» южная сторона дороги 151+000км. Время 19:20												
	Широта: 41°58'56; долгота: 74°49'49''.												
10	Leq					91	90	78	65	60	62	**90**	Уровень вибрации
	Slow max	+										**96**	
	с. Тугол Сай, рядом с магазином «Кутман» южная сторона дороги 151+000км. Время 08:15 Дата 05.06.24												
	Широта: 41°58'56; долгота: 74°49'49''.												
11	Leq					95	91	81	70	63	68	**92**	Уровень вибрации
	Slow max	+										**97**	
	Северо-восточная сторона АБЗ и ДСУ. С. Тугол-Сай 149+000. Время 08:50												
	Широта: 41° 59'33''; Долгота: 74°45'51''.												
12	Leq					97	92	80	75	67	62	**91**	Уровень вибрации
	Slow max	+										**98**	
	с. Куйручук, рядом с магазином "Азамат" западная сторона км 144+000. Время 09:30												
	Широта: 42° 1'30; долгота: 74°58'35''.												
13	Leq					99	91	90	78	63	64	**93**	Уровень вибрации
	Slow max	+										**99**	
	с. Жумгал, рядом со школой на дороге. Левая сторона , км- 129+400. Время 10:00												
	Широта: 42° 42'33; долгота: 75°50'44''.												
14	Leq					94	86	86	78	68	70	**90**	Уровень вибрации
	Slow max	+										**93**	
	Новая База 106+300км. Время 11:00												
15	Leq					95	90	73	64	61	62	**90**	Уровень вибрации
	Slow max	+										**98**	

Заключение по результатам замеров: По результатам инструментальных замеров уровень вибрации от транспортного потока на автодорогах составляет от 90 дБ до 97 дБ.

Должность	ФИО	Подпись
Технический менеджер/Инженер	Нуридин уулу Т.	
Инженер-Стажер	Мунарбеков А.	

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

ISO/IEC 17025
№KG 417/КЦА.ОК.055
от: 21.08.2023 г.
область аккредитации
на сайте: www.kca.gov.kg

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

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

ПРОТОКОЛ ИЗМЕРЕНИЯ ШУМА

№ 12 от «07» июня 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**

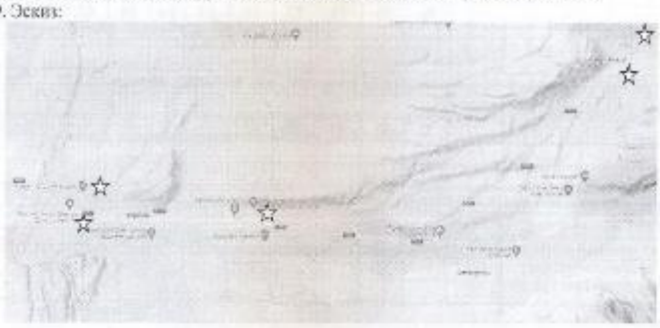
4. Наименование средств измерений и сведения о государственной калибровке измеряемого прибора:

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: 14°С
Влажность: 68%

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



Места где были произведены замеры. Контрольная точка- ☆
10. Дата произведения измерения: «04-05» Июня 2024 г

страница: 1 из 3

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 времени				31,5	63	125	250	500	1000	2000	4000	8000	
		Широкополосный	Тональный	Постоянный	Колебл.	Прерывистый	импульсный										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	Новая База 106+300км. Время 12:40																
	Дата 04.06.24																
1	Leq		+	+				68	72	78	74	69	69	63	57	47	73 факт
	Slow max																81
	с. Жумгал, рядом со школой на дороге. Левая сторона , км- 129+400. Время 13:40																
	Широта: 42° 42'33; долгота: 75°50'44''.																
2	Leq		+	+				42	51	42	38	41	50	56	44	38	64 факт
	Slow max																67
	с. Куйручук, рядом с магазином "Азамат" ,западная сторона км 144+000. Время 15:40																
	Широта: 42° 1'30; долгота: 74°58'35''.																
3	Leq		+	+				48	58	52	54	55	41	41	39	44	55 факт
	Slow max																67
	Северо-восточная сторона АБЗ и Д.У. С. Тутол-Сай 149+000. Время 16:10																
	Широта: 41° 59'33''; Долгота: 74°45'51''.																
4	Leq		+	+				47	52	47	45	59	49	49	43	32	56 факт
	Slow max																65
	с. Тутол Сай, рядом с магазином «Кутман» южная сторона дороги 151+000км. Время 16:40																
	Широта: 41°58'56; долгота: 74°49'49''.																
5	Leq		+	+				56	55	60	62	61	59	50	43	38	56 факт
	Slow max																68
	Новая База 106+300км. Время 17:40																
6	Leq		+	+				71	73	75	72	65	63	58	54	43	70 факт
	Slow max																79
	с. Жумгал, рядом со школой на дороге. Левая сторона , км- 129+400. Время 18:10																
	Широта: 42° 42'33; долгота: 75°50'44''.																
7	Leq		+	+				51	55	49	40	42	53	53	41	37	61 факт
	Slow max																65
	с. Куйручук. рядом с магазином "Азамат" ,западная сторона км 144+000. Время 18:40																
	Широта: 42° 1'30; долгота: 74°58'35''.																
8	Leq		+	+				50	59	56	51	52	43	40	37	36	58 факт
	Slow max																65

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.	Тональная	Постоянный	Колеб.	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 19:00																
	Широта: 41° 59'33''; Долгота: 74°45'51''.																
9	Leq		+	+				49	56	46	44	57	49	47	41	37	55 факт
	Slow max																68
	с. Тугол Сай, рядом с магазином «Кутман» южная сторона дороги 151+000км. Время 19:30																
	Широта: 41°58'56; долгота: 74°49'49''.																
10	Leq		+	+				59	55	62	65	63	57	51	42	39	59 факт
	Slow max																70
	с. Тугол Сай, рядом с магазином «Кутман» южная сторона дороги 151+000км. Время 08:25 Дата 05.06.24																
	Широта: 41°58'56; долгота: 74°49'49''.																
11	Leq		+	+				55	57	61	66	62	53	50	50	40	56 факт
	Slow max																67
	Северо-восточная сторона АБЗ и ДСУ. С. Тугол-Сай 149+000. Время 09:00																
	Широта: 41° 59'33''; Долгота: 74°45'51''.																
12	Leq		+	+				50	59	61	60	51	49	52	43	39	53 факт
	Slow max																64
	с. Куйручук, рядом с магазином "Азамат" западная сторона км 144+000. Время 09:40																
	Широта: 42° 1'30; долгота: 74°58'35''.																
13	Leq		+	+				52	55	60	64	61	56	50	42	37	53 факт
	Slow max																67
	с. Жумгал, рядом со школой на дороге. Левая сторона , км- 129+400. Время 10:10																
	Широта: 42° 42'33; долгота: 75°50'44''.																
14	Leq		+	+				50	51	44	49	45	53	56	48	43	65 факт
	Slow max																69
	Новая База 106+300км. Время 11:10																
15	Leq		+	+				70	74	78	70	67	63	60	56	47	73 факт
	Slow max																85

Заключение по результатам замеров: **На момент проведения замеров уровень шума составляло в дневное время от 53 дБа до 73 дБа.**

Должность	ФИО	Подпись
Технический менеджер/инженер	Нуриддин уулу Т.	
Инженер-Стажер	Мунарбеков А.	

МП "ПрофиЛаб"

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