ADB

Bi-annual Environmental Monitoring Report

(July- December 2013)

Project Number: 2
Loan Number 2562-ADB
March 2014

REPUBLIC OF KAZAKHSTAN: WESTERN EUROPE-WESTERN CHINA INTERNATIONAL TRANSPORT CORRIDOR

(Financed by the Asian Development Bank and Government of Kazakhstan)

Prepared for

MOTC, Committee for Roads
ADB

Asian Development Bank

DOCUMENT CONTROL

This Six Monthly (Bi-Annual) Environmental Monitoring Report is produced in accordance with the requirements of the Contract for the Provision of Construction Supervision Services to the Ministry of Transport and Communications, Committee for Roads of the Republic of Kazakhstan for the Western Europe-Western China Transport Corridor CAREC 1, Project Two under the Asian Development Bank Loan Number 2562.

The report covers six Construction Contracts between Taraz-Korday in Zhambyl Oblast, and the Construction Supervision of these Contracts by DOHWA Consulting Engineers Ltd.

The Contracts are:

- Contract 004 " KCC Engineering& Construction Co., Ltd km 310 +500 - km358 +600
- Contract 005 Kazakhdorstroy km 358 + 600 - km389 +400
- Contract No NCB-1 and NCB -2 (Aksioma Service Contract" LLP)
- Contract No NCB-3 and NCB -4(""Construction Corporation Kulager" LLP)

This report reviews the actions that the Contractors have implemented in accordance with the Environmental Management and Monitoring Plan (EMMP) for the second half of 2013 (July to December).

Prepared By

Environmental Specialist

DOHWA Consulting Engineers Ltd

Date: 28.03.14

DOHWA ENGINEERING CO., LTD. DOHWA REPUBLIC OF KOREA 602

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BI- ANNUAL ENVIRONMENTAL MONITORING REPORT

(July to December 2013)

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(As of February 2014)

Currency unit	–	Kazakhstan Tenge (KZT)
$1.00	=	KZT 184

ACRONYMS & ABBREVIATIONS

ADB	Asian Development Bank
BOD_5	Biochemical Oxygen Demand
CR	Committee for Roads
CSC	Construction Supervision Consultants
COD	Chemical Oxygen Demand
CAREC	Central Asia Regional Economic Cooperation
dB	Decibel
EIA	Environmental Impact Assessment
EMP	Environmental Management Plan
EMMP	Environmental Management and Monitoring Plan
FIDIC	*Federation International Des Ingenieurs Conseils* (the French acronym for International Federation of Consulting Engineers)
GRC	Grievances Redress Committee
IEE	Initial Environmental Examination
KCC	Korean Construction Company
KDS	Kazakhdorstroy
LLP	Limited Liability Partnership
MOTC	Ministry of Transport and Communication
MPC	Maximum Permissible Concentration
MPL	Maximum Permissible Level
PPE	Personnel Protective Equipment
PCRM	Public Complaints Resolving Monitoring
RK	Republic of Kazakhstan
ROW	Right of Way
RCM	Road Construction Materials
RMD	Road Maintenance Depot
SPS	Safeguard Policy Statement
TSL	Top Soil Layer

1.0 INTRODUCTION

1.1 Background

The Republic of Kazakhstan is implementing the program of Rehabilitation and up gradation of road corridor from China to Russia through the cities of Almaty,Taraz, Shymkent , Kyzylorda and Aktobe (Western Europe-Western China Corridor) about 2787 km long route initiated by the Ministry of Transport and Communications (MoTC). The MoTC is the implementing and disbursing agency of this programme through the Committee for Roads (CR). The project is a four lane/two Lane all weather road with divided carriage ways of concrete and bituminous pavement. It is being implemented in several contract packages. The environmental monitoring of construction contracts being the subject of this report includes reconstruction of road section km 310+500 – 389+400 is located in Merke region and in T.Ryskulov region, Zhambyl Oblast, Republic of Kazakhstan. Reconstruction of the road sectors from km 310 +500 to km 358+600 by the contractor KCC E & C and from km 358+600 to km 389+400 by the contractor Kazakhdorstroy. Hence this project consists of two independent contract packages. There are also four contract packages for Depot. DOHWA Engineering Company Ltd. with « Turan Kurylys» Ltd." of Kazakhstan for Construction Supervision of the above contracts in Zhambyl Oblast, (detailed in Section 1.2) for a duration of 33 months from 15 November 2010 (date of signing the contract with CR). The objectives of Consulting Services are to provide high quality and execution of the Contracts in a timely manner within the budget, as well as execution of construction work in full compliance with the approved project documents, technical specifications, FIDIC and SNiP policies and guidelines, economic standards and GOST; including Environmental Management and Protection Plan.

This Bi-Annual Environmental Monitoring Report (period July to December 2013) is produced as an additional report to the requirements of the Contract for the provision of Construction Supervision Services to the Ministry of Transport and Communication, Committee for Roads of the Republic of Kazakhstan for the Western Europe- Western China international Transport Corridor CAREC 1(Zhambyl-Oblast Section)- Tranche 2 under the Asian Development Bank, Loan Number 2562.

The project is implemented by MOTC through the Committee for Roads, Republic of Kazakhstan in accordance with ADB's Safeguard Policy Statement (SPS) 2009 so as to ensure that all environmental mitigation measures is given in EIA and EMP incorporating all the Environmental concerns of the project. The principle objectives of the project with respect to Environment are

- To ensure environmentally compatible project implementation by avoiding and mitigation of negative impacts that are likely to arise from the project
- To ensure that EMP recommendations are adequately followed and to meet the Environmental compliance of statutory requirements.

As per the EIA report, the project has been classified as category "A" based on the cumulative Environmental and Social Impacts. The Environmental impacts of the project during implementation are assessed by measuring various performance indicators. The collection and collation of the baseline data for various environmental impacts for the project helped in assessing the impacts as per implementation schedule given in the contract.

This Bi-Annual monitoring report delineates Comprehensive Environmental Status for the period between July 2013 to December 2013 at key construction locations in accordance with the contract requirements.

Contract №	***Location***	***Contractor***	***Value (Tenge)***	***Commencement Date***	Completion Date
Contract – 004	310+500 – 358+600	KCC E&C	15,184,479,182.00	September 17, 2010	August 01, 2013
Contract – 005	358+600 – 389+400	Kazakhdorstroy	9,191, 120,135.22	September 17, 2010	January 17, 2013

CONTRACT PACKAGES for DEPOT

Contract №	***Location***	***Contractor***	***Value (Tenge)***	***Commencement Date***	Completion Date
Contract – NCB-1	DEPOT-34 in v.Korday	Aksioma Service Contract	433,345,829.68	January 19, 2012	September 02-2013 (Revised)
Contract – NCB-2	Km 163 turning to Otar		331,705.191,00	April13, 2012	October 14, 2013 (Revised)
Contract – NCB-3	v.Akyrtobe	Kulager Construction Corporation	337,479,769.20	August 17, 2012	Feb 16, 2014 (Proposed)
Contract – NCB-4	v. Merke DEPOT-35		433,127, 889.07	September 15, 2011	May 13, 2013 (Revised)

1.2 The Project Area

The Project road is located in Merke Region of Zhambyl Oblast under Tranche-2 road section km 310+500-km 389+400 (kulan-Merke and Merke-Blagoveschenka. The project road is divided into two parts such as km 310+500- 358+600 and km 358+600-km 389+400. The project road passes through the transient zone between the foothills and steppes of the Alatau Mountains that border Kazakhstan and Kyrgyzstan. The road traverses vegetated drainage channels that flow intermittently during infrequent periods of heavy rainfall (isolated storms). Most of the road is bordered by flat / slightly undulating ground that has light to moderate grass cover or cropped land. Location of the Project road in terms of contracts is shown in Figure 1.1. Figure 1.2 and Figure 1.3 respectively.

The relief, basically plain, formed the merged cone of detritus of numerous and temporary water passage, dry narrows, developed in quaternary deposits, and tectonics-accumulative types are prevailing. Chu Channel has the general bias of northward, further from foothills and the relief more plainly.

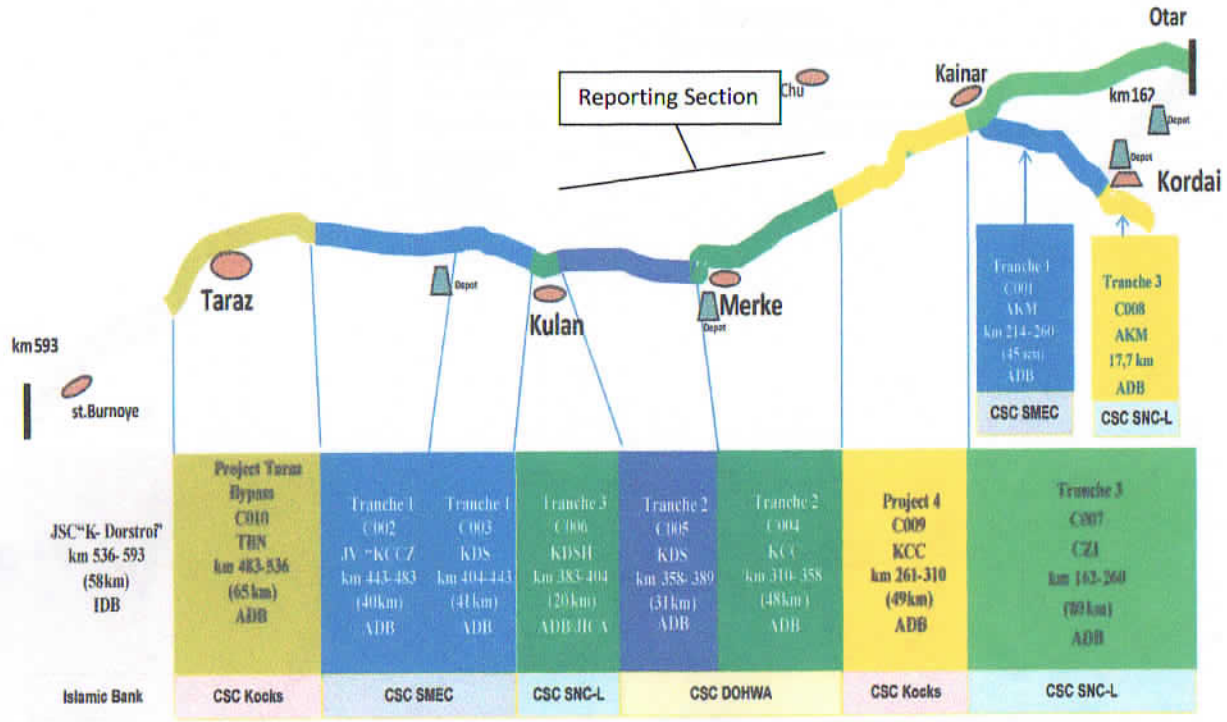


Figure 1.1: Project Location Map

Figure 1.2: Contract 004– Km 310+500- km358+600 (Contractor- Korean Construction Company- KCC)

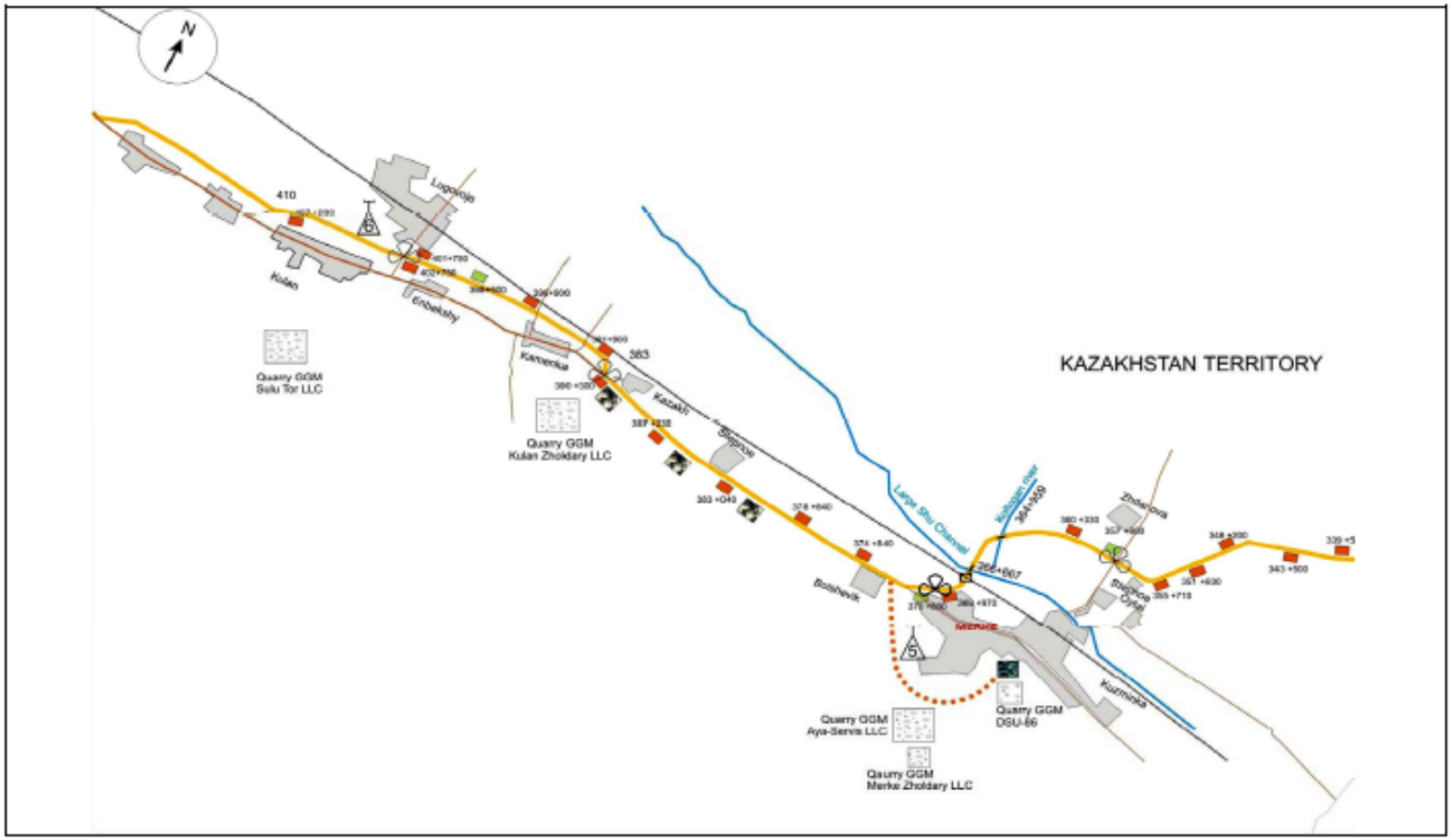


Figure 1.3: Contract 005– km 358+600-km 389+400 (Contractor- Kazakhdorstroy LLP)

The surface of the project location is slightly hog-backed, complicated by numerous dry, narrow channels of temporary stream, depth of incision reaches 20-30m at root of a mountain and decreases inboard of a hollow, up to 1.5 m and less, in some areas, merge with the general surface. In narrows and in floodplains, grows fruit trees and miscellaneous herbs. There are water-logged sections.

Essentially soil covering is presented by pastures, arable lands, and also hay-makings. Practically along the whole length of a line, apart from rare intervals, are marked artificial plantation forests over a distance 10-40 m on both sides of road.

In the course of realization of archeological examination, it was revealed and investigated that there are 13 objects, recognized by monuments of history and culture. All 13 investigated monuments are located outside a buffer zone (about 200), on distance from 210 m to 2140 m from the designed axis of the motorway.

The climate in the project area is generally temperate and continental. Temperatures are hot in the summer, reaching past 30° Celsius (C); in winter, they fall well below freezing to as low as –25°C. Part of the corridor, close to the mountains, has unpredictable weather with severe rainstorms in the summer and blizzards in the winter, creating hazardous road conditions. Being at about 44° North latitude, the area has approximately 8 hours of daylight in the winter and 16 hours in full summer.

Springs are short and warm, with frequent cold spells and frost occurring until late May. The frost-free period lasts a minimum of 160 days, then autumn is dry and warm. The warmest months are July (with an average temperature of 23.8°C) and August (with an average temperature of 22.3°C), and the coldest month is January (with an average temperature of –6.6°C). Absolute peak values recorded over the past two decades are a summer maximum of 44°C and a winter minimum of –40°C. The average annual precipitation ranges from 360 to 465 millimeters (mm), whereby 187–252 mm falls during the warm period (April–September). Extended drought periods have been more frequent during recent years. At the end of winter, the soil freezes to depths of up to 1.3 m, strongly affecting local road conditions and maintenance.

Air quality in the project area is not well documented. Modeling results from the preliminary EIA prepared by the MOTC indicate roadside levels of carbon monoxide, hydrocarbon, and soot within Kazakhstan norms, while nitrogen oxide and lead show levels that exceed them.

The road section crosses many small creeks and four rivers (Aspara, Kaindysai and Koltogan, Big Chu Channel). Groundwater aquifers occur at two levels. The shallow groundwater aquifer is 1–2 m below the surface and is affected by surface water contamination originating from storm water runoff and drain water from croplands. The deep groundwater aquifer, located 20–30 m below the surface, remains most likely unaffected by the planned road works.

The road corridor is part of a tectonic depression. According to seismic risk zoning of Kazakhstan, regional seismicity can reach magnitudes of up to 8 on the open Richter scale.

Ecological resources are not highly developed in the project area due to the geomorphologic uniformity. Steppe habitats are prevailing, with scattered (seasonal) wetlands developing in depressions and along roads. The area is occasionally used by migratory birds (flyway to Siberia). Natural forests are absent, but their ecological function has been resumed by extensive roadside plantations. Ash, elm, and poplar are the predominant trees.

Wildlife is typical for a Central Asian steppe and grassland biotopes, with few rare or endangered species. According to the environmental department in the city of Taraz, no such species have been seen in the project area. The wetlands do have more enhanced biodiversity, mainly waterfowl and reed grasses. Local fish faunas seem well developed and are used in recreational fishing activities. Some fish are migratory, whose populations peak in May. No

sensitive habitats or areas exist under criteria specified in the Ramsar Convention or as protected areas within a 100 km distance of the road.

The baseline information gathered before the performance for construction of roads conducted (preconstruction stage) are as follows

Table 1.1: Baseline Information for the project Road during preconstruction stage

Environmental Aspect	Parameter	Value for Chainage Km 310+500 to Km 358+600 (KCC)	Value for Chainage Km 358+600 to Km 389+ 400 (KDS)
Surface Water Quality			
Aspara River	pH	7.15	
	Biological Oxygen Demand (BOD5) (mg/m^3)	4.85	
	Chemical Oxygen Demand (COD) (mg/m^3)	14.1	
	Suspended Matter (mg/m^3)	Absent	
	Chloride (mg/m^3)	12.4	
	Lead (mg/m^3)	Absent	
	Chromium (mg/m^3)	0.013	
	Mineral Oil (mg/m^3)	Absent	
Kaindysai River	pH	7.13	
	Biological Oxygen Demand (BOD5) (mg/m^3)	1.55	
	Chemical Oxygen Demand (COD) (mg/m^3)	4.05	
	Suspended Matter (mg/m^3)	Absent	
	Chloride (mg/m^3)	20.60	
	Lead (mg/m^3)	Absent	
	Chromium (mg/m^3)	0.022	
	Mineral Oil (mg/m^3)	0.034	
Koltogan	pH		7.37
	Biological Oxygen Demand (mg/m^3)		2.15
	Chemical Oxygen Demand (mg/m^3)		7.76
	Suspended Matter (mg/m^3)		Absent
	Chloride (mg/m^3)		42.7
	Lead (mg/m^3)		Absent
	Chromium (mg/m^3)		0.016
	Mineral Oil (mg/m^3)		0.022
Big Chu Channel	pH		7.13
	Biological Oxygen Demand (mg/m^3)		1.55
	Chemical Oxygen Demand (mg/m^3)		4.05
	Suspended Matter (mg/m^3)		Absent
	Chloride (mg/m^3)		20.6
	Lead (mg/m^3)		Absent
	Chromium (mg/m^3)		0.027
	Mineral Oil (mg/m^3)		0.034
Air Quality			
Site No. 1 (Km 357+ 808)	Nitrogen Oxide (mg/m^3)	0.000	
	Sulphur Oxide (mg/m^3)	0.000	
	Carbon Oxide (mg/m^3)	0.000	
	Aldehydes (mg/m^3)	0.000	
	Inorganic Dust (mg/m^3)	0.000	
Site No. 2 (Km 357+ 808)	Nitrogen Oxide (mg/m^3)	0.002	
	Sulphur Oxide (mg/m^3)	0.000	
	Carbon Oxide (mg/m^3)	0.000	
	Aldehydes (mg/m^3)	0.000	
	Inorganic Dust (mg/m^3)	0.000	
Site No. 2 (Km 345 + 300)	Nitrogen Oxide (mg/m^3)	0.003	

	Sulphur Oxide (mg/m^3)	0.080	
	Carbon Oxide (mg/m^3)	0.000	
	Aldehydes (mg/m^3)	0.000	
	Inorganic Dust (mg/m^3)	0.000	
Site No. 3 (Km 333 + 000)	Nitrogen Oxide (mg/m^3)	0.002	
	Sulphur Oxide (mg/m^3)	0.005	
	Carbon Oxide (mg/m^3)	0.009	
	Aldehydes (mg/m^3)	0.000	
	Inorganic Dust (mg/m^3)	0.000	
Concrete batching Plant (km 368)	Nitrogen Oxide (mg/m^3)		0.000
	Sulphur Oxide (mg/m^3)		-
	Carbon Oxide (mg/m^3)		0.046
	Aldehydes (mg/m^3)		-
	Inorganic Dust (mg/m^3)		0.000
Zhanaturmys village (km 377)	Nitrogen Oxide (mg/m^3)		0.000
	Sulphur Oxide (mg/m^3)		-
	Carbon Oxide (mg/m^3)		0.000
	Aldehydes (mg/m^3)		-
	Inorganic Dust (mg/m^3)		0.000
Noise Quality			
Km 334+300	Average Equivalent Sound level (dB)	45	
Km 310 + 500		54	
Km 358 + 600		54	
Road Interchange			65
Concrete batching Plant (km 368)			55
Zhannaturmys village (km 377)			56
Kazakh village (km 383)			76
Soil Quality	Maximum Lead Concentration (mg/kg)	20	23.5

Source: KCC and KDS, December 2012

1.3 Description of Contract Package

1.3.1 Contract - 004 KCC E & C

This Contract comprises a new dual carriageway (each direction) cement / concrete road pavement. From Km 331+000 to Km 358+600, part of the work will be on new alignment and part utilizing the existing old embankment. The Contractor will construct the new road first and then transfer traffic from the existing road to allow this to be reconstructed.

There will be a realignment of the road from Km 310+500 to km331+000 as the road was shifted 100 – 300 meters off the existing alignment to provide a security zone between the Kazakhstan and Kyrgyzstan border.

Key Components:

Length of Road	48.1 km
Culverts	49
Bridges	2 (Aspara River, Kaindysay River)
Interchange	1
Earthworks (embankment compaction)	3,350,040m^3
Sub-base	665,141 m^3
Base-course (cement treated)	241,534 m^3
Asphalt wearing Course	1320 m^3
Cement Concrete base-course (12.5cm)	126,360 m^3
Cement Concrete wearing course (12.5cm)	116,640 m^3
Maintenance of Merke-Shu-Korday detour road	148 km

1.3.2 Contract – 005- Kazakhdorstroy (KDS)

This Contract comprises a new dual carriageway (each direction) cement / concrete road pavement. Part of the work will be on new alignments and part utilizing the existing old embankment.

The Contractor will construct the new road first and then transfer traffic from the existing road to allow this to be reconstructed.

There will be a new alignment for the bridge at km 364+000 and also for the railway overpass at Merke.

Key Components:

Length of Road	30.8 km
Culverts	52
Bridges	2 (Big Chu Channel, Koltogan River)
Interchange	1 & 1 railway overpass
Earthworks (embankment compaction)	2,242,000 m^3
Sub-base	499,231 m^3
Base-course (cement treated)	184,480 m^3

Asphalt wearing course	1970 m^3
Cement Concrete base-course (12.5cm)	81,070 m^3
Cement Concrete wearing course (12.5cm)	81,070 m^3

1.3.3 Contract No NCB-1 (Aksioma Service Contract" LLP)

Small works including Construction and repairs of buildings, Maintenance depots and facilities: Lot I: Thorough repair and construction of buildings and facilities of Maintenance DEPOT-34 in v.Korday concluded with "Aksioma Service Contract" LLP.

1.3.4 Contract No NCB-2 ("Aksioma Service Contract" LLP)

Small works including Construction and repairs of buildings, Maintenance depots and facilities: Lot II: Complex of buildings and facilities for maintenance depots and on the km 163 Almaty-Korday-Blagoveschenka-Merke-Taskent-Termez (turning to Otar) concluded with "Aksioma Service Contract" LLP.

1.3.5 Contract No NCB-3 ("Construction Corporation Kulager" LLP)

Small works including Construction and repairs of buildings, Maintenance depots and facilities: Lot III: Complex of buildings and facilities for maintenance depots and on the km 453 Almaty-Korday-Blagoveschenka-Merke-Taskent-Termez (in Akyrtobe) concluded with "Construction Corporation Kulager" LLP.

1.3.6 Contract No NCB-4 ("Construction Corporation Kulager" LLP)

Small works including Construction and repairs of buildings, Maintenance depots and facilities: Lot IV: Complex of buildings and facilities for maintenance depots and on the km 453 Almaty-Korday-Blagoveschenka-Merke-Taskent-Termez (in v. Merke) concluded with "Construction Corporation Kulager" LLP.

1.3.7 Construction Supervision Contract (DOHWA Consulting Engineer Co., Ltd.)

The DOHWA Consultant is responsible for the Construction Supervision of six Construction Contracts. Other duties include environmental and social monitoring in accordance with ADB requirements.

1.4 Construction Activities during This Period (July 2013 to December 2013)

1.4.1 Contract 004-KCC Km 310.5 to Km 358.6 (Tranche 2)

Pursuant to Sub-Clause 8.1 of the General Conditions of Contract, the Notice for Commencement of Works was issued on 17th of September 2010 by the Engineer. The Contractor was already on the site and has established a temporary office. Address is Ahtamberdieva 34 str., v. Sarymoldaev, Merke region, Zhambyl oblast. The Contractor has also received the advance payment.

The Contractor failed to complete the whole of the Works within the Time for Completion of 03 June 2013 and hence, the Contractor shall pay delay damages to the Employer under Sub-Clause 8.7 of the Conditions of Contract.

These delay damages shall be calculated from the sum (0.02% of the Final Contract Price) stated in the Contract Document for every day commencing from 04 June 2013 until the date stated in the Taking-Over Certificate in which the maximum amount shall not exceed 10% of the Final Contract Price.

Through Engineer's Letter Ref.: KCC-MER 061/2013 dated 02 July 2013, the Contractor has been reminded that considerable volume of major works are still outstanding and further instructed to complete them before issuing further notice under GCC Sub-Clause 10.1.

Further to Contractor's written application under letter Ref. No. 48 dated 13 May 2013 and in accordance with GCC Sub-Clause 10.1, the Contractor through letter Ref. No. DH/78/2013 dated 08 July 2013 has notified the Engineer that the Works will be completed and ready for taking-over by the Employer on 22 July 2013 and again requested to issue the Taking-Over Certificate for the Works.

Through Letter Ref.: DH-KAZ 070/2013 dated 01 August 2013, the Engineer has formally issued the Taking-Over Certificate stating that the Contractor shall repair any defects that will appear during the Defects Notification Period of up to 31 July 2015 while the Employer will assume responsibility for general maintenance and winter maintenance works starting 01 August 2015.

1.4.2 Contract 005- Kazakhdorstroy, Km 358.6 to Km 389.4 (Tranche 2)

Pursuant to Sub-Clause 8.1 of the General Conditions of Contract, the Notice for Commencement of Works was issued on the 17th of September 2010 by the Engineer. The Contractor was already on Site and had established a temporary office in Merke. The Contractor has received the advance payment from ADB and Kazakhstan Government.

The Kazakhdorstroy LLP completed their civil works about 4 months ahead of the actual schedule date which was April 18, 2013. The Engineer issued the Taking-Over Certificate on January 17, 2013 following inspection by the Working Commission and agreement that the work was completed through the Letter Ref.: SAI-KAZ 120/2012. Taking-Over Certificate stating that the Contractor shall repair any defects that will appear during the Defects Notification Period of up to 16 January 2015 while the Employer will assume responsibility for general maintenance and winter maintenance works starting 17 January 2015.

As notified by the Engineer in several letters, the Contractor has carried our remedial works on some defects that appeared in the section from Km. 364+845 to Km. 364+905 (L/S), Km. 386+060, Km. 386+554, Km. 386+599 and Km. 386+716.

1.4.3 Contract No NCB-1 (Aksioma Service Contract" LLP) v. Korday

The Original Commencement Date for the Works is 15 September 2011. Due to late issuance of Government's Construction Permit, the Works officially commenced on 19 January 2012.

On January 16, 2013 vide letter Ref.No. SAI-DEP 002/2013, the Engineer made a recommendation to SAI-PMC to extend the project completion for four (4) months and to move the original completion date from 14 March 2013 to 18 July 2013. Through their letter Ref. No. TL/DC/General 976 dated 30 January 2013, SAI-PMC approved the Engineer's recommendation and asked for the approval of same from the Employer.

The cumulative physical progress as of 31 December 2013 is approximately 92.00% while the planned progress based on the Revised Work Programme is 100.00%.

Progress of Work for each Structure as on the end of December 2013:

SN	Description	Progress		Remarks
		Plan	Achieved	
1	Administrative Household Building	100%	100%	
2	Refueling Station	100%	97%	
3	Warm Box 10 units	100%	100%	
4	Repair workshop for road equipment	100%	79%	
5	Boiler House	100%	93%	
6	Coal Storage	100%	100%	
7	Goods and Materials Storage	100%	100%	
8	Sand and Salt Storage	100%	100%	
9	Shed for large size equipment	100%	99%	
10	Toilet Reservoirs	100%	100%	
11	Fire Reservoirs	100%	100%	
12	Cess Pool $25m^3$ and $15m^3$	100%	100%	
13	Water Supply and Storage	100%	100%	
14	Communication and Alarm System	100%	98%	
15	Landscaping and other finishing works	100%	84%	
16	Checkpoint	100%	91%	
17	Warm Box (existing building)	100%	100%	
18	Storage of loose materials	100%	100%	
19	Heating System External Area	100%	100%	
20	Storage of Diesel	100%	100%	

Source: Fourth Quarterly Progress Report, December 2013

1.4.4 Contract No NCB-2 ("Aksioma Service Contract" LLP) v, Otar

The Original Start Date for the Works is 15 September 2011. Due to shifting of location, the whole of the Works have to be redesigned.

On 30 January, 2013 SAI-PMC through their letter No.TL/DC/General/977/2013 agreed with the proposal and recommended that the Contractor should be allowed by the Client to have a time extension of seven (7) Calendar Months that will move the completion date to 15th of October 2013.

Through Letter Ref.: AKS-DEP 033/2013 dated 22 May 2013, the Engineer has expressed its deep concern over the Contractor's current rate of progress, which in the Engineer's opinion is too slow to comply with the approved Completion Date.

In the same letter, the Contractor was instructed to update the current programme and submit a revised programme not later than 29 May 2013. The Contractor was also instructed to mobilize additional resources in order to recover the significant delays to the progress of work and comply with the approved Completion Date. Through letter Ref. No. 79 dated 28 May 2013, the Contractor has submitted the revised programme.

With reference to Contractor's letter Ref. No. 181 dated 17 July 2013 addressed to SAI-PMC and copy to the Engineer regarding the Contractor's request for an additional time of 100 days in regard to the

supply of various equipment under Bill No. 2100, the Engineer vide Letter Ref.: AKS-DEP 044/2013 dated 20 July 2013 did not agree with the Contractor as their request has no contractual basis. The Contractor has further urged to procure the required equipment as early as possible from any ADB eligble source countries.

Through Letter Ref.: AKS-DEP 045/2013 dated 05 August 2013, the Engineer has expressed its deep concern over the Contractor's current rate of progress, which in the Engineer's opinion is too slow to comply with the approved Completion Date of 14 October 2013. Considering that the current progress is falling more than 10% behind the work program, the Contractor was instructed to update its current program showing modifications and provision of additional resources to ensure that the Works could be completed within the Contract Completion Date.

The cumulative physical progress as of 31 December 2013 is approximately 61.80 % while the corresponding planned progress based on their Revised Work Programme is 100%.

Progress of Work for each Structure as on the end of December 2013:

SN	Description	Progress to Date	Remarks
1	Administrative Housing Building	87%	
2	Refueling Station	75%	
3	Warm Box 10 units	92%	
4	Repair workshop for road equipment	72%	
5	Boiler House	55%	
6	Coal Store House	95%	
7	Goods and Materials Storage	85%	
8	Sand and Salt Storage	35%	
9	Shed for large size equipment	88%	
10	Toilet Reservoirs	--	
11	Fire Reservoirs	80%	
12	Cess Pool 25 м^3 and 15 м^3	--	
13	Water Supply and Storage	10%	
14	Communication and Alarm System	42%	
15	Landscaping and other finishing works	--	
16	Domestic Building	92%	
17	Checkpoint	91%	
18	Heating System Inside Area	96%	

Source: Fourth Quarterly Progress Report, December 2013

1.4.5 Contract No NCB-3 ("Construction Corporation Kulager" LLP) v. Akyrtobe

The Original Commencement Date for the Works is 15 September 2011. Due to land acquisition issue, the whole of the Works have to be redesigned. The revised design was only issued by the Project Designer on 06 February 2012 which shall be considered as the revised Commencement Date.

With reference to the meeting held on 24 June 2013 at MOTC Zhambyl Oblast Department chaired by Ms. A. Tuganova and Mr. Anuarbekov Aibek, Mr. Erlan Kalymov of CoR/MOTC Astana and representatives from the Engineer and the Contractor "Kulager Construction Corporation" LLP, the Engineer vide Letter Ref.: SAI-DEP 027/2013 dated 27 June 2013 has provided its evaluation on the extension of the Intended Completion Date. Based on the antecedent events that occurred from old to new Site location, the Engineer has determined that the Intended Completion Date should be extended to 16 February 2014 or 18 months of extended construction period commencing from 17 August 2012, the date when the new Site was handed over to the Contractor.

The Contractor vide its letter Ref. No. 169 dated 17 July 2013 has notified the Employer and the Engineer of its intention to terminate the Contract by citing several grounds which in the opinion of the Engineer is not fully justified. Through Letter Ref.: KUL-MER 031/2013 dated 23 July; the Engineer has in turn advised the Contractor to exert all extra effort to complete the Works within the specified time.

The Engineer vide Letter Ref.: KUL-MER 033/2013 dated 29 July 2013 has instructed the Contractor to make necessary improvement on its progress of work in order to complete the Works on time.

In connection with the Contractor's intention to terminate the Contract as notified by their letter Ref. No. 169 dated 17 July 2013, the Engineer has cited in its Letter Ref.: DH-KAZ 067/2013 dated 31 July 2013 that as to the best of Engineer's knowledge, there are no impediments either on the side of the Employer or the Engineer which has prevented the Contractor from complying with his contractual obligations.

The Engineer has further cited that the Contractor's on-going failure of performance is sufficiently serious to merit termination of the Contract under GCC Clause 56 as the Contractor has been persistently ignoring instructions from the Engineer and the Employer in relation to his delayed progress as well as flagrantly neglecting to comply with all his obligations under the Contract which is putting the Works seriously at risk.

The cumulative work progress as of 31 December 2013 at the new site could not be determined as of this reporting period considering that the revised BOQ has not yet been finalized which will be the basis in establishing the monthly planned progress.

Through the Engineer's letter Ref.: KUL-MER 037/2013 dated 03 September 2013, the Contractor was again reminded of the poor progress of works as well as poor management and supervision by the Contractor's key personnel assigned in the project and instructed to accelerate the works by providing any additional resources (at no extra cost to the Employer).

Based on the Minutes of Meeting dated 09 October 2013, chaired by the Director of Zhambyl Oblast Branch of "Kazavthozol" JSC, it was decided that the works should be suspended prior to obtaining the proper building permits from the concerned agencies.

The Contractor vide letter Ref.:No.265 dated 28 October 2013, requested the Employer through the Engineer to expedite the issuance of the building permits in order to smoothly proceed with the works at site.

Through letter Ref.No.23-23-05/2881 dated 28 November 2013, the Employer issued permission for the commencement of construction activities.

Through letter Ref.No.KUL-MER 046/2013 Dated 29 November 2013, the Engineer gave instruction to the Contractor to proceed immediately with the works without further delay and to provide a capable Contractor's Representative to control the project.

During the meeting at Zhamby oblast Branch of "Kazavthozol" JSC office on 19 December, 2013, the Asst. Director reminded the Contractor to prepare their price estimate proposal for the items which were not included in the original BOQ.

Progress of Work for each Structure as on the end of December 2013:

№	Description	Progress To Date	Remarks
1	Administrative Housing Building	24%	
2	Checkpoint	60%	
3	Goods and materials storage	65%	
4	Repair workshop for road equipment	16%	
5	Warm Boxes for big-scale road equipment for 10 units	59%	
6	Shed for big-scale road technics for 5 units	4%	
7	Boiler House for 3 boilers with chimney	10%	
8	Sand and salt storage	10%	
9	Coal storage	10%	
10	Petrol Station	22%	
11	Mud box with gasoline interceptor	0%	
12	Apartment house	42%	
13	Leveling operation of the Road Depot Area	87%	
14	Water tower	0	
15	Underground Pump Station	5%	
16	Fire Tanks, capacity is 100 m^3	3%	
17	Cess Pool 25cum and 15 cum	3%	
18	Two-holed Toilet	13%	
19	Inside Area Communications	18%	
20	Landscaping and other finishing works	0%	

Source: Fourth Quarterly Progress Report, December 2013

1.4.6 Contract No NCB-4 ("Construction Corporation Kulager" LLP) v. Merke

The Works for this Contract commenced on 15 September 2011 and is progressing satisfactorily. As of this reporting period, there is no major issue or constraint has been encountered that may affect the Intended Completion Date.

Through letter Ref. No. 46 dated 26 February 2013, the Contractor submitted its claim for an extension of the Intended Completion Date for 77 days. The Contractor has cited in its letter that the progress of their works were disrupted caused by the significant delay in disbursing the 15% local portion of the Advance Payment and the changing of the heating system from solid fuel to gas.

Approval from the Employer was received vide letter No. 23-23-05/547 dated 19 March 2013 as per ADB endorsement dated 15 March 2013. The revised Contract Price is KZT 433,127,889.07 and the new Contract Completion Date shall be 13 May 2013.

The Contractor has been informed through Letter Ref.: KUL-MER 020/2013 dated 22 May 2013 that based on the Engineer's ocular inspection conducted on 21 May 2013, it has been confirmed that various major works are still outstanding by the Completion Date of 13 May 2013 including but not limited to the supply of major equipment to Repair Workshop, heating system at the Boiler House, protective concrete layer at Petrol Station and perimeter fencing.

As of end of June 2013, the Contractor has failed to supply several equipment for Repair Workshop including the replacement of old/used equipment that were earlier supplied.

The Contractor vide its letter Ref. No. 170 dated 17 July 2013 has requested the Engineer to issue the Certificate of Completion of the Works as quickly as possible or otherwise, has threatened the Engineer and the Employer that they will refer this issue to civil court proceedings.

Through Letter Ref.: KUL-MER 032/2013 dated 25 July 2013, the Engineer has cited various reasons for failing to complete the Works within the specified time and further advised the Contractor to proceed with their next course of action in accordance with the procedures and prescribed periods set out in GCC Clause 24 if they believe that the decision taken by the Engineer for not issuing the Certificate of Completion up to this time was wrongly taken.

Vide the act of ocular inspection of site conducted on 25 December, 2013 by the Representatives from the Employer, CSC, and Contractor, regarding the defects and incomplete works which requires remedial measures from the Contractor, it was concluded that all defects which could possibly be done during the winter season will be eliminated by 15 January, 2014.

1.5 Scope of Environmental Works

The scope of works includes identification of environmental impacts during construction stage and implementation of environmental mitigation measures for various environmental components as given in technical specification in the contract. In addition, the supervision consultant has to undertake specific environmental safeguard measures during the execution of work.

The following activity are considered for effective Environmental Monitoring through periodic inspection and supervision during execution of works as per the General Requirement of the Technical Specification for construction of whole the work under clause 105 (Health and Safety) and clause 106 (Protection of the Environment).

- Loss of top soil
- Soil erosion
- Contamination of soil by fuel and lubricants
- Quarry and hot mix plant operations
- Siltation into water bodies
- Alteration of drainage
- Dust Control-haulage road and work sites
- Pollution from crusher, hot mix plant and batching plant
- Noise from plant and equipment
- Safety and accidental risks
- Traffic safety and control,

The EMMP signifies the environmental action to be undertaken under Taraz –Korday section in Zhambyl Oblast Project 2, delineating various mitigation measures/avoidance of negative impacts. The EMP also incorporates various environmental enhancement measures required for protecting the cultural properties in all contract packages.

1.6 Project organization and Environmental Management Team

In general, as stipulated in the ToR for the Construction Supervision on the environmental aspect, the Consultant shall "Carry out the following duties related to environmental mitigation measures during construction (a) to ensure that all the environmental mitigation measures required to be implemented are incorporated in the contract documents; (b) supervise and monitor the implementation of environmental (management)/mitigation plan (EMP); and (c) in case of unexpected environmental impacts, coordinate with the Project Director and PMC to recommend necessary measures to the Committee of Roads and ADB for Implementation".

Based on this the Environmental specialist shall establish coordinative work with relevant staff of the Consultant and the Contractor to ensure that environmental issues are recognized prior to or discovered during work implementation. The EMP for the project/s or component projects shall be the basis of the monitoring and accordingly, the Contractor should complete and submit their project EMP to the Engineer for approval as soon as possible. Coordinative communication channels shall be established according to the following work coordination chart:

Project Management Consultant (PMC-ADB) through its environmental expert closely monitors the implementation of environmental management and monitoring plan for all the contract packages by conducting meetings with the environmental experts of the supervision consultant (CSC).

During this period the following International Environmental and Social Specialist has been deployed by DOHWA

Name	Position	Input Date
International Specialist		
Abu Nahid Munir Uddin	Environmental Specialist	August 18 to September 6, 2013
		February 25 to March 21, 2014
Kh. Khairul Matin	Social Development Specialist	August 28 to September 26, 2013
		February 25 to March 21, 2014
Local Specialist		
Kolbay Baurzman	Local Environmental Specialist	December 20 to July 03, 2013 (Full time)

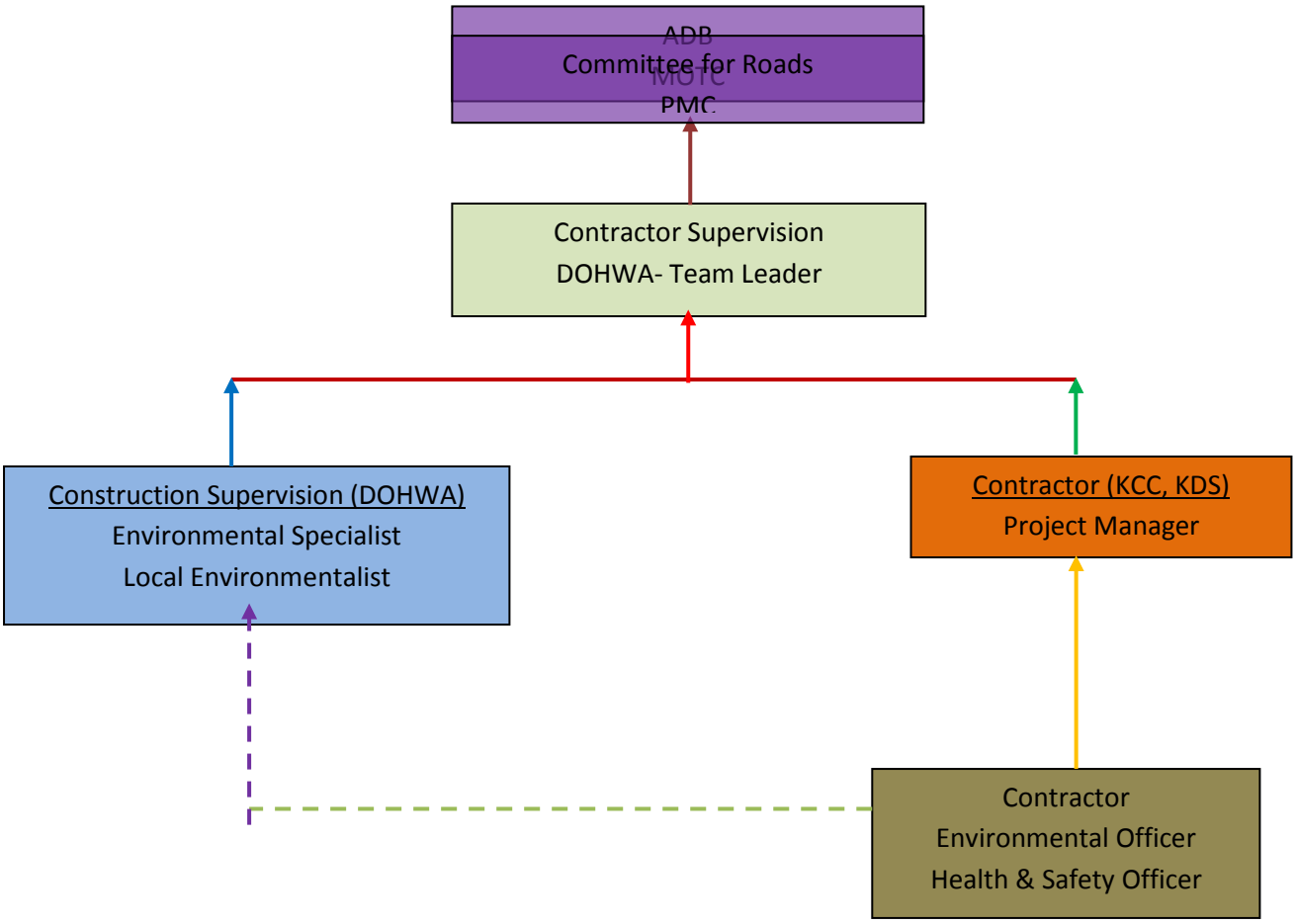


Figure: 1.4 Environmental Monitoring Work Coordination Set Up

1.7 Relationship's with Contractor's, Owners, Lender etc.

The relationships between Contractor, Engineer, Owner, and Lender are considered normal working relationships. At the working level, coordination of environmental issues has been good; the specialists mentioned in article 1.6 above are in frequent communication and consultation.

2. ENVIRONMENTAL MONITORING

2.1 Previous Six Month Construction Activities

As described in Chapter 1 that KCC E & C (Contract 004) has received taking over certificate from the Engineer on August 1, 2013 and KDS received taking over certificate on January 17, 2013. So, no road construction works were in progress. They are now only repairing any defects that will appear during the Defects Notification Period of up to 16 January 2015 for KDS and 31st July, 2015 for KCC. As of the current date, the construction is primarily concentrated on the Contract No. NCB -1(repair and construction of complex buildings and facilities of maintenance depot 34 in v. Korday), NCB-2 (construction and repairs of buildings and facilities for maintenance depots near at Otar), NCB-3 (construction of building complex and facilities for maintenance depots in Akyrtobe). Contract No. NCB -4 (Merke Depot) has been completed about 98% of works. Still they are now repairing some works, so that they could not receive yet the completion certificate from the Engineer.

The table below outlines the monthly progress of the Project Depot in the previous six months.

Table 2.1: Previous six month Construction Progress-

No.	Month	Construction Activities (Axsioma)		Construction Activities (Kulager)	
		Lot 1 Korday Depot	Lot 2 Otar Depot	Lot 3 Akyrtobe Depot	Lot 4 Merke Depot
1	July 2013	• Storage of diesel oil, electrical mounting • Petrol station, water supply and sewerage • Boiler house, heat supply and ventilation • Land improvement, bituminous works • External electric power networks • Cesspools • Fire prevention tank, earthwork • Petrol station, window and door openings • Exterior water pipeline • Exterior sewerage	• Boiler house, floor slabs • Boiler house, ramp, porch • External electric lighting • Petrol station, plastic windows • Boiler house, window and door openings • Repair workshop, laying walls of brick • The heating system inside area	• Petrol station - Device of monolithic strip foundation • Storage of goods and materials – underlayment, base of crushed stone, preparation for concrete, monolithic device of cores2. warm box • Warm box - device of cement sand isolation • Repair workshop - Paint waterproofing with a liquid bitumen • Boiler House - Crushed stone base, compaction of the soil • Storage of coal, sand and salt - Structural excavation for foundation of building	No major works were done. Only some repairing works was done
2	Aug.2013	• Checkpoint, fire alarm • Repair	• Warm boxes, shed, metal construction	• Petrol station • Warm Box: • Repair workshop	

		workshop, reinforced concrete ramp • Repair workshop, interior finishing • Fire prevention tank, various works • Repair workshop, fire alarm • Warm box for 10 units, fire alarm • Petrol station, electric power networks • Goods and materials storage, fire and burglar alarm • Warm boxes (existing building), fire alarm • Pump house	• Petrol station, shed, metal construction • External electric lighting • Goods and materials storage, interior and exterior finishing • Apartment house, installation of wooden dormer windows • Repair workshop, laying walls of brick • The heating system inside area	• Boiler House: • Storage of sand: • Storage of sand and salt: • Storage of goods and materials	
3	Sep.2013	• Refuelling station, roofing and concrete flooring • Warm boxes, ceiling works and flooring • Land improvement, bituminous pavement works, and cement concrete pavement • Pump house, strengthening of building	• Warm boxes, shed, metal construction • Petrol station, shed, metal construction • External electric lighting • Boiler House, interior and exterior finishing • Apartment house, installation of wooden dormer windows	• Warm box- Masonry exterior walls, device of the concrete seismo belt • Boiler House- The device of a monolithic reinforced concrete foundation, the device of the two layer paint with liquid bitumen waterproofing • Backfill of storage goods and materials	
4	Oct.2013	• Petrol station concrete works and finishing • Land improvement. Border curbs and lawns • Warm Box ramps	• Sand Storage , metal construction • Salt Storage, metal construction • Repair workshop, roofing • Heating system, inside area • Apartment	• Warm Box - Rebar binding works • Boiler House - The device of a monolithic reinforced concrete foundation.	

			house, wooden flooring		
5	Nov.2013	• Land improvement, Cement Concrete pavement	• Repair workshop, construction of concrete porch and ramps. • Repair workshop, roofing	No activities due to suspension of works based on the Protocol of meeting dated 09 October 2013 chaired by the Director of Zhamby oblast Branch of "Kazakvthozol" JSC (Non issuance of building permits).	
6	Dec.2013	• Land improvement. Cement Concrete pavement (19% completed	• Installation of exterior water pipeline and sewerage	• Petrol Station: monolithic strip foundation ,exterior and interior brickwalls • Warm box: reinforced seismic belt • Administrative Building: monolithic concrete foundation • Apartment Building: concrete columns,exterior and interior walls • Checkpoint: ceiling and finishing works	

2.2 Framework for Environmental Monitoring

The environmental monitoring and management activities for the project is based on the Environmental Impact Assessment (EIA) Reports drafted for the project road component namely the Environmentall Impact Assessment Report. ADB Loan No. 2562-KAZ – Multitranche Financing Facility for the CAREC Transport Corridor 1 (Zhambyl Oblast Section) Investment Program – Tranche 2 (May 2009). This EIA report applies to the sections where construction is on going. Based on the General Requirement of the Technical Specification for construction of whole the work under clause 106 (Protection of the Environment); the environmental concerns which need to be monitored and managed are as follows:

- Siting of Construction Camps, Asphalt Plants and Related Facilities
- Air Quality
- Water Quality
- Noise and Vibration
- Community Relation
- Earth works
- Preservation of Antiquities
- Environmental Enhancement

In addition, the following laws, regulations and standards are also considered and used as guidelines related to road construction activities of the Contractor:

Table 2.2: Relevant Laws, Policies and Regulation on Environmental Protection as per Government of Kazakhstan[2]

Name of Legislation	Date and Number of registration
Methodology for Determining Emissions Standards to the Environment	Approved by the Order of the Minister of Environment (MEP), 21 May 2007, No. 158-p".
Regulations on Conducting State Ecological Expertise.	Approved by the Order of the Minister of MEP, 28 June 2007, No. 207-p"
The Amendments to the Order of the Minister of Environment Protection of Republic of Kazakhstan on Approval of Regulations on Conducting State Ecological Expertise	Approved by the Order of the Minister of MEP, 9 October 2007, No. 296-p"
Instructions on Negotiation and Permissions to Special Water Use in the Republic of Kazakhstan	Joint order of the Minister of Health of the Republic of Kazakhstan dated 24 November 2004 № 824, Minister of Environment of the Republic of Kazakhstan of 1 December 2004 number 309-p, Acting Chairman of the Committee on Water Resources, Ministry of Agriculture of the Republic of Kazakhstan dated 11 November 2004 number 236- S, Chairman of the Committee of Geology and Mining Ministry of Energy and Mineral Resources of the Republic of Kazakhstan on 2 December 2004 number 161-p. Joined by the Ministry of Justice of the Republic of Kazakhstan 13 December, 2004 N 3263
The Rules for Licensing and Qualification Requirements to Work Implementation and Delivery of Services in the Field of Environmental Protection	Approved by the Order of the Government of Republic of Kazakhstan, MEP, 5 June 2007, No. 457-p"
Environmental Code of the Republic of Kazakhstan	MEP, 9 January 2007, No. 212-p".
Law of the Republic of Kazakhstan «On Amendments and Additions to Some Legislative Acts of Kazakhstan on Environmental Issues»	MEP, 9 January 2007, No. 213-p"
Law of the Republic of Kazakhstan «On Ratification of the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade»	MEP, 20 March 2007, No. 239-p"
Law of the Republic of Kazakhstan «On Ratification of the Stockholm Convention on Persistent Organic Pollutants»	7 June 2007, No. 259-p"
The Concept of Transition to Sustainable Development for 2007–2009 (Action Plan)	The Order of the President of RK, 14 November 2006, No. 216-p"
The Concept of Environmental Security of the Republic of Kazakhstan for 2004–2015	The Order of the President of RK , 3 December 2003, No. 1241

Table 2.3: Standards for Various quality Parameters as Per Government of Kazakhstan

Monitoring Indicator	Parameters	Maximum Permissible Concentration (MPC) on ND, mg/m^3
Ambient Air Quality	Nitrogen dioxide	0.085
	Nitrogen Oxide	0.4
	Sulphur dioxide	0.5
	Carbon Oxide	5.0
	Aldehydes	0.035
	Inorganic dust	0.3
Water Quality	pH	6.5-8.5
	Suspended Matter	0.21
	Chemical Oxygen Demand	30
	Biochemical Oxygen Demand	6.0
	Mineral Oil	0.1
	Lead	0.03
	Arsenic	0.05
	Chloride	350.0
	Chromium	0.05
Noise Quality	Maximum allowable limit in dB	75
Soil Quality	Maximum Permissible Concentration level for lead concentration (mg/kg)	32

The monitoring program will include regular monitoring of construction activities for their compliance with the environmental requirements as per relevant standards, specifications and EMP; The purpose of such monitoring is to assess the performance of the undertaken mitigation measures and to

[2] Kazakhstan: Multitranche Financing Facility for the CAREC Transport Corridor 1 (Zhambyl Oblast Section) Investment Program—Tranche 2

immediately formulate additional mitigation measures and/or modify the existing ones aimed at meeting the environmental compliance as appropriate during construction.

During construction, environmental monitoring will ensure the protection of side slopes, and embankment from potential soil erosion, borrow pits restoration, quarry activities, sitting of work sites and material storages, sitting of batch, concrete and asphalt plants especially close to the nature reserve, preservation of religiously sensitive locations, community relations, and safety provisions.

2.3 Engineer's Environmental Auditing Protocol and EMMP

Pursuant to the construction supervision TOR, that the "environmental specialist will develop an environmental auditing protocol for the construction period, formulate a detailed environment monitoring and management plan (EMMP)", a work-process arrangement was conceptualized to be undertaken by the local as well as the international environmental specialist. The monitoring and management scope can be subdivided into the following:

1. **Field Supervision**

   a. ***Field visits*** – The environmental specialists should be conducting constant field visits to observe and identify any environmental issues that violates the EMP and any prevailing regulations
   b. ***Inspection photo documentation*** – During field inspections, photos should always be taken of any field situation as part of the documentation
   c. ***Inquiry with field people*** – Background information should be gathered pertaining to the issues observed and this can be obtained from field workers, inspectors, and the community
   d. ***Witnessing Parameter Measurement*** – Whenever any field measurements should be done by the Contractor, the environmental specialist should always be present to observe the process and to note down his observations.

2. **Meetings and Discussions**

a. **Consult with TL/Engineers** – The environmental specialists should consult with the Team Leader and engineers on any environmental issues. He should advice TL and ARE on the physical and legal implications of the situations and consider these items in the drafting "Non – conformance Letters" to the Contractor.
b. **Discuss with Contractor's Environmental Specialist**- Any environmental issues should be discussed with the Contractor's Environmentalist in order to determine their commitment in undertaking environmental mitigation measures
c. Training - Part of the scope of the environmental specialist is to develop a program for hands on training of Contractor's staff in implementing the EMMP. Hence, on several occasions such trainings were conducted by the International Environmental Specialist at both Contractor's camp site.

3. **Document Checking**

   a. EMP/ Supplemental Plans & Method Statements – The environmental specialists should check the documents submitted by the Contractor and comment on their appropriateness and completeness as prescribed in the Technical Specifications and Contract Documents.

   b. Checking Parameter Measurement Results – The environmental specialist should inspect in detail the results of the parametric Measurements in order to

determine any indication of any situation different from normal conditions. When this is discovered, the environmental specialist should alert the Contractor for immediate action. A re-confirmation of the data will serve as secondary check if everything is within the acceptable limits.

c. **Contractor's Report and Monitoring Data -** The environmental specialist should also verify reports submitted by the Contractor' especially on the evaluation of results of the parametric measurement for air, noise, and water quality.

d. **Checking of Legal Documents –** permits and all legal documents with relevance to environmental items should be thoroughly checked by the environmental specialist for legislative compliance. This pertains to quarry permits, site approval for campsite, asphalt plant, and crusher.

4. Report Writing

a. ***Monthly Reports*** – Environmental issues should be reported regularly in the monthly reports by the Contractor and to be commented on by the environmental specialist. Results of parametric measurements for air, noise quality and dust should be reported by the Contractor on a monthly basis as mentioned in the environmental monitoring plan. These results should be assessed by the environmental specialist for appropriate mitigation measures.

b. ***Quarterly Reports –*** The environmental specialist is also obligated to come up with quarterly environmental report to be submitted to the Client and ADB.

c. ***Bi-Annual Reports*** – As mentioned in the Particular Conditions of Contracts, the Contractor should come up with a bi-annual environmental report. Upon submission, the environmental specialist should evaluate the environmental report and come up with general comments. As part of the Engineer's reporting obligation a bi-annual report should be compiled by the environmental specialist and to be submitted to the Client and ADB after every six month of monitoring.

These environmental audit protocol and environmental management and monitoring plan chart on the side of the Engineer is shown in the diagram (Figure 2.1) below

2.4 Status of Performed Environmental Monitoring Activities

The Engineer's domestic environmentalist was performed environmental monitoring using checklist developed by International Environmental Specialist of DOHWA which was given in the Bi-annual Environmental Monitoring Report (first half, 2012). The results of the monthly monitoring were incorporated in the Environmental Chapter of the monthly report of the Engineer. Primarily the environmental monitoring activities at various locations at the worksites focused on (i) the quality of atmospheric air; (ii) the quality of drinking water and river water; (iii) the condition of soil; (iv) flora and fauna; (v) the condition of construction equipment and transport; (vi) waste; and (vii) quarries.

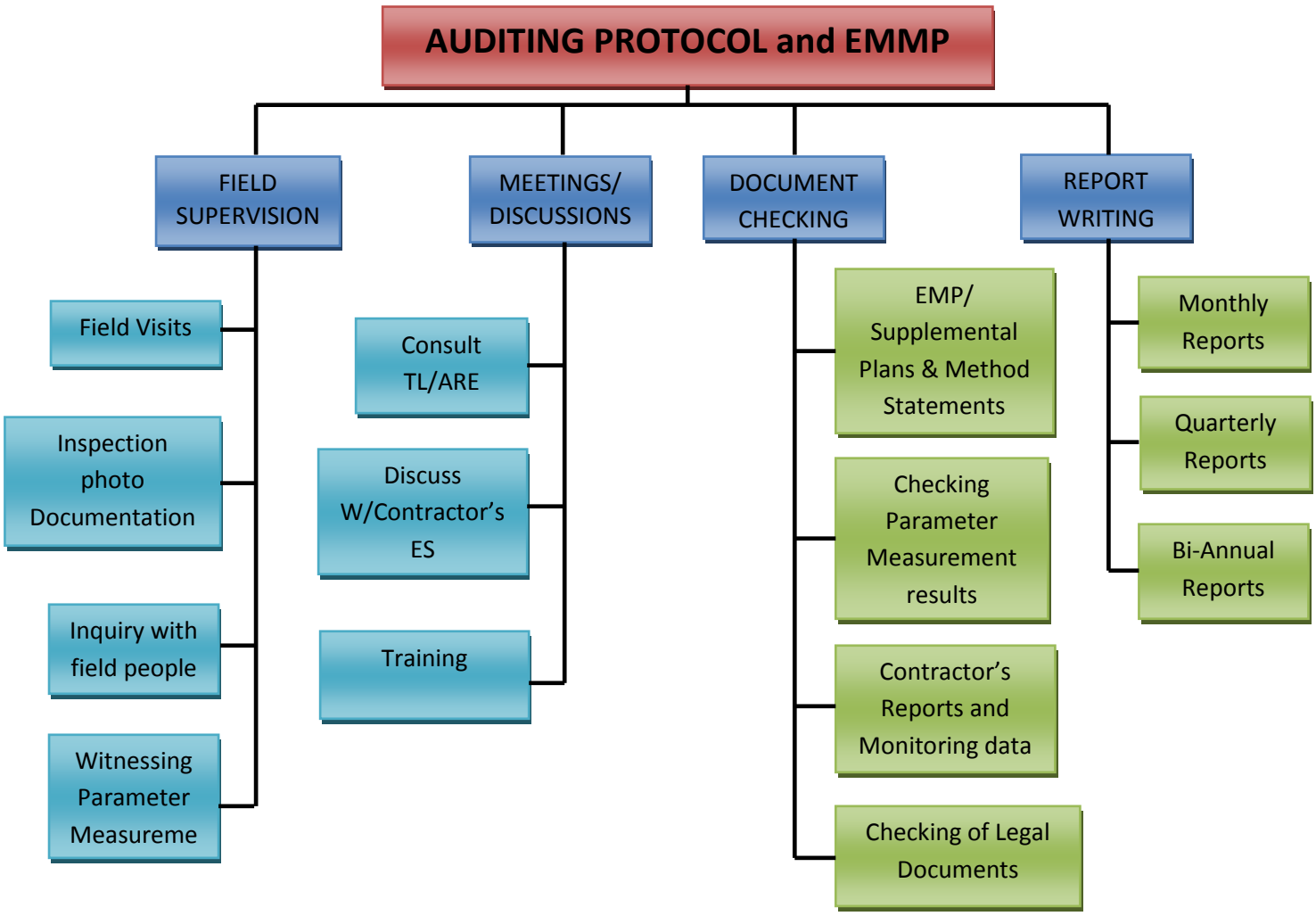


Figure 2.1: Engineer's Environmental Audit Protocol and EMMP

2.4.1 Contract 004-KCC Km 310.5 to Km 358.6

The KCC completed their construction works and handed over their sites to CR. The Engineer issued the Taking-Over Certificate on August 1, 2013 following inspection by the Working Commission and agreement that the work was completed through the Letter Ref. DH-KAZ 070/2013. Taking-Over Certificate stating that the Contractor shall repair any defects that will appear during the Defects Notification Period of up to 31 July 2015 while the Employer will assume responsibility for general maintenance and winter maintenance works starting 01 August 2015.

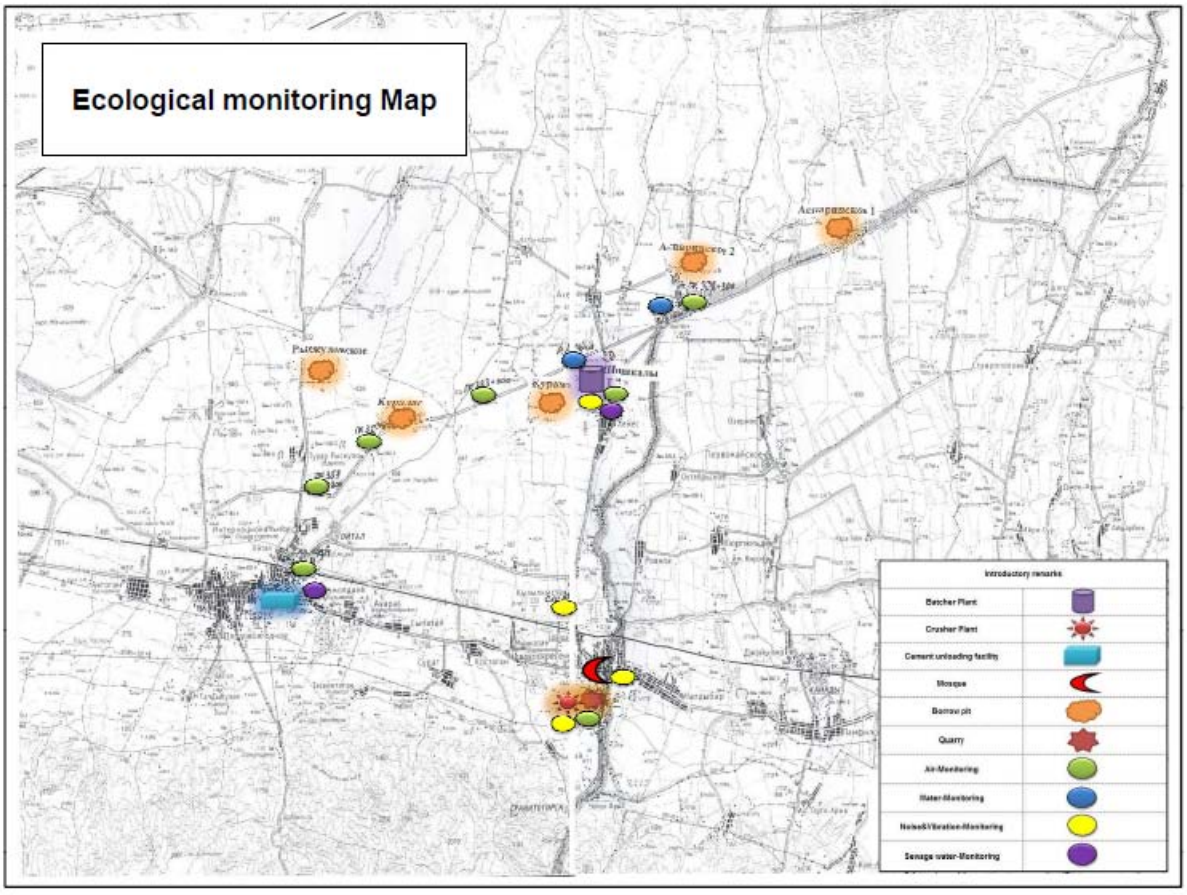


Figure 2.2: Environmental Monitoring Location Map

Air quality monitoring was done before the performance for the construction of roads conducted in September 2010, on the concrete and crushing screening plant in April 2011 and for the storage and cement plant in July 2011. Instrumental laboratory measurements were carried out in July 2013. Air quality has been conducted in 5 places at 10 control points on 5 components on the border of sanitary protection zones. Concentration of pollutants on the control points which characterizing influence of sections on an environment, it have undergone express method by a gas analyzer «GANK-4».

Air Quality Monitoring at concrete batch plant (left) and road section at Chainage 328+300 km near Aspara (right)

Water quality monitoring was carried out in river Kayindysay as per EMMP schedule. Preliminary Water quality was conducted for 22 parameters during preconstruction stage. Water quality was not performed in river Aspara due to non availability of flow during the month of July.

Wastewater taken from household domestic sewage of worker's settlement from Septic tank 1 laboratory analysis was performed as per request by the Engineer.

Measurements of baseline noise and vibration were conducted before the start of construction in September 2010. Noise and vibration data was collected at concrete batch plant and near at the mosque at the turn of road to crushing and screening plant in July 2013. Due to the dismantling of crushing plant, all materials are removed from the crusher and so no measurements were taken in crushing plant. Noise and vibration measurements have undergone by instrument "Assistant". The specified instrument can be applied to measurement of the sound parameters, an infrasound and ultrasound, the general and local vibration on workplaces, in inhabited and public buildings, in territories.

Water Quality Monitoring- water Samples taken from river Kayindysay (left) and domestic wastewater samples from Sewage Pond 1 of workers settlement (right)

Noise and Vibration Monitoring near mosque at turning of Crushing Plant (left) and at Concrete batch Plant (right)

All the monitoring works was carried out by the accredited laboratory named "KESON UTAN" (Accreditation certificate No KZ I.081065) registered in the register of accreditation from 14.12.2010 and valid till 14.12.2015. Annex 1 represents the methods for determining various environmental quality parameters (air, water, noise etc.)

The summary of monitoring results on air, water and noise quality for this bi-annual period (July to December 2013) are shown in Table 2.4-1, Table 2.4-2, Table 2.4-3 and Table 2.4-4, respectively.

Table 2.4- 1: Summary of Air Quality Results- (July to December 2013)- KCC

№	Place of measurement № checkpoint	Parameters	Maximum Permissible Concentration (MPC) on ND, mg/m^3	Average arithmetic value of factual concentration, mg/m^3 baseline data*	Average arithmetic Value of factual concentration, mg/m^3, July	Average arithmetic Value of factual concentration, mg/m^3, Aug	Average arithmetic Value of factual concentration, mg/m^3, Sep	Average arithmetic Value of factual concentration, mg/m^3, Oct	Average arithmetic Value of factual concentration, mg/m^3, Nov	Average arithmetic Value of factual concentration, mg/m^3, Dec
1	Site№1 Control point №1 357+808 km.	Nitrogen dioxide	0.085	0,000	0.005	**No construction works as KCC handed over the sites to CR and got completion certification in August 1, 2013**				
		Sulfur dioxide	0.5	0,000	0.002	-//-				
		Carbon Oxide	5.0	0,000	0.013	-//-				
		Aldehydes	0.035	0,000	0.001	-//-				
		Inorganic dust	0.3	0,000	0.004	-//-				
2	Site №1 Control point №2 357+808 km.	Nitrogen dioxide	0.085	0,002	0.012	-//-				
		Sulfur dioxide	0.5	0,000	0.013	-//-				
		Carbon Oxide	5.0	0,000	0.023	-//-				
		Aldehydes	0.035	0,000	0.002	-//-				
		Inorganic dust	0.3	0,000	0.019	-//-				
3	Site № 2 Control point №1 v. Aspara 328+300 km.	Nitrogen dioxide	0.085	-	0.002	-//-				
		Sulfur dioxide	0.5	-	0.001	-//-				
		Carbon Oxide	5.0	-	0.004	-//-				
		Aldehydes	0.035	-	0.000	-//-				
		Inorganic dust	0.3	-	0.004	-//-				
4	Site № 2 Control point № 2. . v. Aspara KM 328+300	Nitrogen dioxide	0.085	-	0.016	//-				
		Sulfur dioxide	0.5	-	0.014	//-				
		Carbon Oxide	5.0	-	0.026	//-				
		Aldehydes	0.035	-	0.001	-//-				

№	Place of measurement № checkpoint	Parameters	Maximum Permissible Concentration (MPC) on ND, mg/m^3	Average arithmetic value of factual concentration, mg/m^3 baseline data*	Average arithmetic Value of factual concentration, mg/m^3, July	Average arithmetic Value of factual concentration, mg/m^3, Aug	Average arithmetic Value of factual concentration, mg/m^3, Sep	Average arithmetic Value of factual concentration, mg/m^3, Oct	Average arithmetic Value of factual concentration, mg/m^3, Nov	Average arithmetic Value of factual concentration, mg/m^3, Dec
5		Inorganic dust	0.3	-	0.022	-//-				
	SiteN 3 Control point №1 Concrete Plant 328+ 300km	Nitrogen dioxide	0.085	-	0.003	-//-				
		Sulfur dioxide	0.5	-	0.002	-//-				
		Carbon Oxide	5.0	-	0.016	-//-				
		Aldehydes	0.035	-	0.001	-//-				
		Inorganic dust	0.3	-	0.040	-//-				
6	SiteN 3 Control point №2 Concrete Plant	Nitrogen dioxide	0.085	-	0.009	-//-				
		Sulfur dioxide	0.5	-	0.006	-//-				
		Carbon Oxide	5.0	-	0.029	-//-				
		Aldehydes	0.035	-	0.002	-//-				
		Inorganic dust	0.3	-	0.019	-//-				
7	Site №4 Storage of cement Control point №1	Inorganic dust	0.3	-	0.001	-//-				
8	Site №4 Storage of cement Control point № 2	Inorganic dust	0.3	-	0.002	-//-				
9	Control point №1 Site № 5 Storage tank for diesel fuel	Aldehydes	0.035	-	0.004	-//-				
		Hydrogen Sulfide	0.008	-	0.00001	-//-				

№	Place of measurement № checkpoint	Parameters	Maximum Permissible Concentration (MPC) on ND, mg/m^3	Average arithmetic value of factual concentration, mg/m^3 baseline data*	Average arithmetic Value of factual concentration, mg/m^3, July	Average arithmetic Value of factual concentration, mg/m^3, Aug	Average arithmetic Value of factual concentration, mg/m^3, Sep	Average arithmetic Value of factual concentration, mg/m^3, Oct	Average arithmetic Value of factual concentration, mg/m^3, Nov	Average arithmetic Value of factual concentration, mg/m^3, Dec
10	Control point №2 Site № 5 Storage tank for diesel fuel	Aldehydes	0.035	-	0.013	-//-				
		Sulphuretted hydrogen	0.008	-	0.0001	-//-				

Source: Report for the monthly Monitoring Report on the environmental protection and environmental monitoring of the branch KCC, July – 2013- Blank indicates baseline measurements were not carried out.

Table 2.4- 2: Summary of Water Quality Results- (January to June 2013) - KCC

№	Name of test parameters	Norm of MPC mg/м^3	Baseline monitoring (Preconstruction stage)	The test results of natural water r.Kayindysay						Remark
				July	August	September	October	November	December	
1	pH	6,5-8,5	7,13	7.35	**No construction works as KCC handed over the sites to CR and got completion certification in August 1, 2013**					Not exceeded of the MPC
2	Sodium Potassium	200	55,1	61.2	-//-					-//-
3	Potassium	-	10,0	1.8	-//-					-//-
4	Calcium	180	87,8	85.3	-//-					-//-
5	Magnesium	50	31,0	46.7	-//-					-//-
6	Cupper	1,0	abs.	0.005	-//-					-//-
7	Zinc	5,0	0,09	0,08	-//-					-//-
8	Lead	0,03	abs.	abs.	-//-					-//-
9	Manganese	0,5	0,041	0,12	-//-					-//-
10	Arsenic	0,05	abs.	abs.	-//-					-//-
11	Phosphate	5,0	2.21	3.08	-//-					-//-
12	Chromium	0,05	0,022	0,000	-//-					-//-
13	Iron	0,3	0,011	0,209	-//-					-//-
14	Chloride	350,0	20,6	11.89	-//-					-//-
15	Sulfate	500	23,6	75,2	-//-					-//-
16	Ammonium nitrogen	2,0	abs.	0.000.	//-					//-
17	Nitrate	45,0	6,4	0.000	//-					//-
18	Fluoride	1,2	0,25	0.77	//-					//-
19	Mineral oil	0,1	0,034	0,06	-//-					-//-
20	Suspender matter	0,21	abs.	0.22	-//-					-//-
21	Chemical oxygen demand	30	4,05	9.68	-//-					-//-

22	Biological oxygen demand	6,0	1,55	4.9	-//-	-//-

Source: Report for the Monthly Monitoring Report on the environmental protection and environmental monitoring of the branch KCC , July 2013- There is no water in the river Aspara during the month of July, so, no monitoring was conducted . Abs- denotes- absent.

Table 2.4- 3: Summary of Average Equivalent sound level (dB) and corrected variation level- July-Dec 2013

Location Point	July	Aug	Sep	Oct	Nov	Dec.	Allowable limit, dB	Remarks
Concrete batching plant	43.8	No construction works as KCC handed over the sites to CR and got completion certification in August 1, 2013					75 ((according to the order of Ministry of Health of RK No. 841 dated 03.12.2004- maximum permissible level)	All the value is within allowable limit The noise level depends not only workers of road- building technologies, but also depends on intensity of a transport system. Vibration level on areas of carrying out of instrumental measurements which also not exceeds permissible value (SanPiN RK 3.01.032-97)
Near the mosque at the turning of Crushing and Screening Plant	42.3	No construction works as KCC handed over the sites to CR and got completion certification in August 1, 2013						

Source: Monthly Monitoring Report on the environmental protection and environmental monitoring of the branch KCC, July 2013

Table 2.4- 4 Household domestic wastewater

№	Name of test parameters	Norm of MPC mg/м^3	Sewage Pond №1						Remark
			July	Aug.	Sept.	Oct.	Nov.	Dec.	
Worker's Settlement- Sewage Pond (Rotational Camp)									
1	Suspender matter	3730	124.7	No Construction works					No exceeded the maximum permissible Concentration (MPC)
2	Chloride	75	15.2	-//-					-//-
3	Sulfate	460	133.6	-//-					-//-
4	Mineral oil	4,5	2.0	-//-					-//-
5	Ammonium nitrogen	20,0	19.5	-//-					-//-
6	Phosphate	5,0	4,9	-//-					-//-
7	Iron	0,8	0,65	-//-					-//-
8	Anionic Surfactant	10,2	3,9	-//-					-//-
9	Nitrate	16,5	7,3	-//-					-//-
10	Nitrite	2,5	0,77	-//-					-//-
11	Fluoride	1,2	0,79	-//-					-//-
12	Chemical oxygen demand	1000	286	-//-					-//-
13	pH	-	7,45	-//-					-//-

Source: Monthly Monitoring Report on the environmental protection and environmental monitoring of the branch KCC, July 2013

Findings:

Air Quality

The representative results indicates that, the contents of the controlled components (Inorganic dust, Nitrogen dioxide, Sulfur dioxide, Carbon monoxide, Aldehydes) in the atmospheric air at the sites do not exceed the maximum permissible concentration specified in the inventory of emissions of harmful substances into the air.

Water Quality

According to the results, the month characteristics at the River Kayindysay are within the permissible level according to the National standards.

Noise Quality

Indicators of noise and vibrations tests do not exceed permissible values , as the main quantity of the work is performed away from settlements. Camp sites had been established away from the residential areas/urban vicinities.

Observation:

No non-compliance issues/aspects were observed in the past monitoring (July to December) as works were completed and got completion certificate.

2.4.2 Contract 005- Kazakhdorstroy, Km 358.6 to Km 389.4

The Kazakhdorstroy completed their construction works before the schedule. They have handed over their sites to CR. The Engineer issued the Taking-Over Certificate on January 17 2013 following inspection by the Working Commission and agreement that the work was completed through the Letter Ref.: SAI-KAZ 120/2012 dated 17 January. Taking-Over Certificate stating that the Contractor shall repair any defects that will appear during the Defects Notification Period of up to 16 January 2015 while the Employer will assume responsibility for general maintenance and winter maintenance works starting 17 January 2015.

During their construction period, they conducted monitoring program as per the following monitoring schedule based on clause 106 of Technical specifications and sub-clause 4.18 of Special conditions of the Contract. Figure 2.2 shows the schematic layout of Environmental monitoring location.

Table 2.5: Monitoring Schedule- KDS

№ i/o	Description of the Activities	Location	Frequency of Monitoring
1	*2*	*3*	*4*
Air Quality Monitoring			
1.1.	Instrumental measurement of basic environmental indicators	Source location of pollution (Concrete-batching plant –km 368; v. Zhanaturmys – km 377; v. Kazakh – km 383)	Commencement of construction
1.2.	Routine instrumental measurements of air pollution	Location of pollution sources (Concrete-batching plant - km 368 , v. Aktogan – km 367, v. Zhanaturmys - km 377; v. Kazakh - km 383, quarry of loam site-3 – km 370+1000 m to the right from the road towards mountains ; crushing-stone plant	Not less than once per month or more often as required by the Engineer

		Karakystak-2 - km 389,4+12 km towards the mountains)	
Water quality monitoring			
2.1.	Conduct quality analysis of water (baseline data)	Bridges locations at water sites (Koltogan river, Big Chu Channel)	Before civil works commencement
2.2.	Conduct water quality monitoring	Bridges locations at water sites (Koltogan river, Bolshoy Chuyskiy Kanal)	Not less than once a month or often on Engineer's request
Noise and Vibration Monitoring			
3.1.	Instrumental measurement of basic noise and vibration indicators	In neighboring settlements located on the boundary with Sanitary Protected Zone (Zhanaturmys v.; Kazakh v.; Altogan v.)	Commencement of construction stage
3.2.	Routine instrumental measurements of noise and vibration	In neighboring settlements located on the boundary with Sanitary Protected Zone (Zhanaturmys v.; Kazakh v.; Altogan . v.)	Not less than once per month or more often as required by the Engineer

Air quality monitoring was done before the performance for the construction of roads conducted in October 2010, on the concrete batching plant, Zhanaturmys village and Kazakh village. Routine instrumental measurements were carried out monthly by the accredited laboratory ZhB "KESO Otan" LLP (Accreditation certificate №KZ/*И* 08.1065) valid from 14.12.2010 till 14.12.2015.

Air quality monitoring was conducted in accordance with time program of control for compliance with standards related to maximum-permissible emissions included in Industrial Ecological Control program, which approved by Shu-Talas department of ecology. Concentration of pollutants on the control points characterizing the influence of object on environment has been undergone by express method with gas analyzer «GANK-4».

Water Quality Monitoring of Koltogan river was conducted on following parameters: Sodium + Potassium; Potassium; Calcium; Magnesium; Copper; Zinc; Lead; Manganese; Arsenic; Phosphates; Chromium; Iron; Chlorides; Sulfates; Nitrogen ammonium; nitrates; fluorides; mineral oil; Suspended matter; pH; Chemical oxygen demand (COD); Biochemical oxygen demand (BOD_5). Domestic waste waters from construction camp were taken out by special motor transport on treatment plants under the contract, in this connection waste water monitoring was not conducted.

Noise and vibration measurements have been made with instrument - "Assistant". The given instrument can be applied for measurement of the sound parameters, infrasound, ultrasound, general and local vibration on workplaces, inhabited and public buildings, and territories.

The following Table presents the comparative analysis of the actual concentration of basic indicators (September), the maximum measurement results for the reporting period from 2011 to 2012.

Figure 2.3: Schematic drawing of Sampling point location- KDS

Legend

- Storage areas for road-construction materials

- Measurement points

1. Koltogan river
2. Big Chu Channel
3. Concrete batching plant
4. Zhanaturmys village
5. Kazakh village
6. Aktogan village

– Lay out of the concrete batching plant and of the construction camp.

№ points	Sampling locations	Monitored parameters	Distance to facilities	Note
1	Koltogan river (km 364)	Nature water	20 m. from the road	
2	Large Shu Channel (km 366)	Nature water	8 m. from the road	
3	Concrete batching plant (CBP) (km 368)	Air, physical parameters (noise, vibration)	50 m. to the CBP	
4	Zhanaturmys village (km 377)	Air, physical parameters (noise, vibration)	15 m. from the road	
5	Kazakh village (km 383)	Air, physical parameters (noise, vibration)	20 m. from the road	
6	Aktogan village (km367)	Air, physical parameters (noise, vibration)	20 m. from the road	
7	Construction site	Air, physical parameters (noise, vibration)	10 m. from the construction area, km 382	
8	Quarry of loam "Land lot № 3" km 370+1000 m (right towards the mountains)	Air	10 m from the quarry	

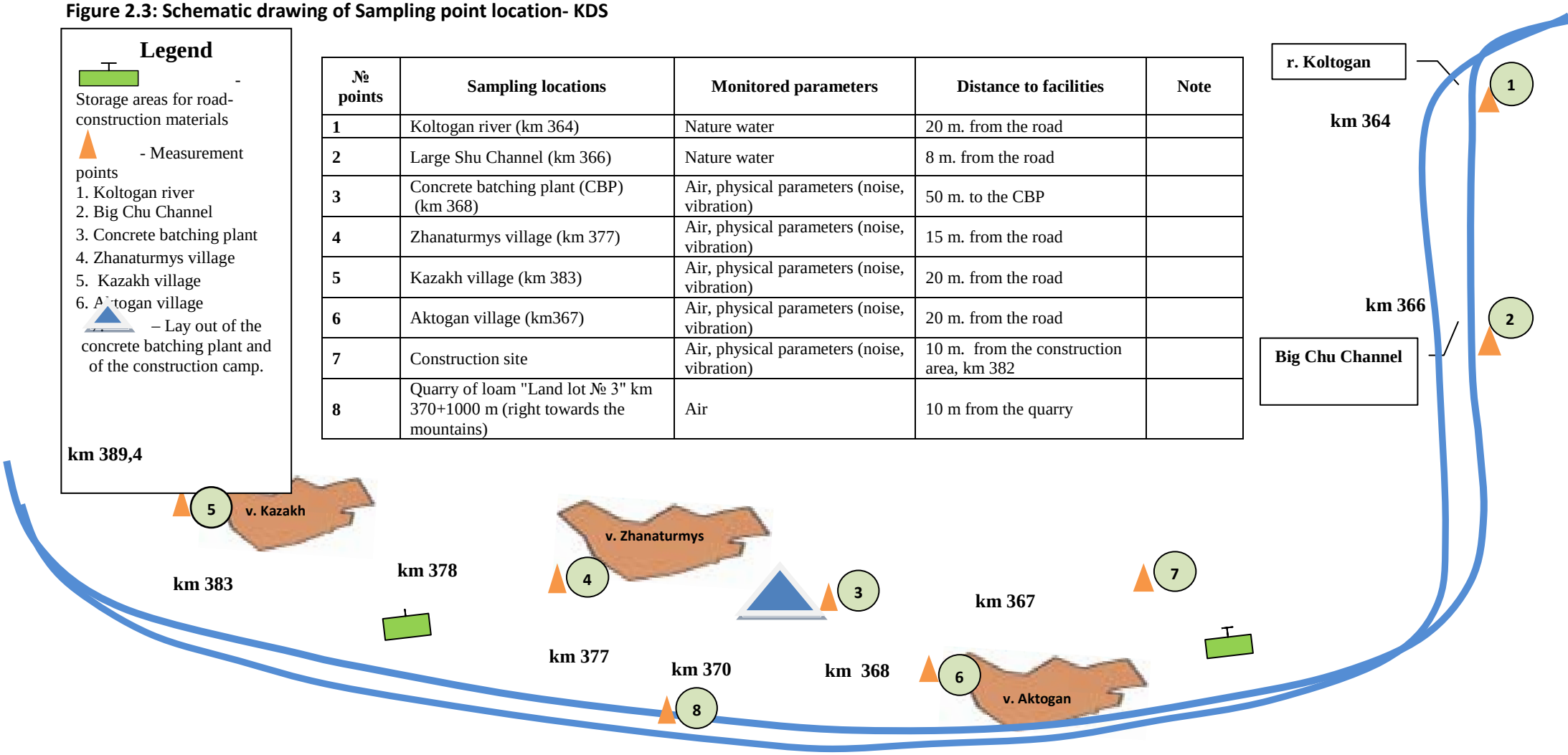


Table 2.6- 1: Comparative Analysis of Air Quality Results- (2011 to 2012)- KDS

№	Place of measurement № checkpoint	Parameters	Maximum Permissible Concentration (MPC) on ND, mg/m^3	Average arithmetic value of factual concentration, mg/m^3 baseline data*	Maximum Avg. value of factual concentration, mg/m^3, First Bi-annual, 2011 (Jan-Jun)	Maximum Ang. value of factual concentration, mg/m^3, Second Bi-annual- 2011 (Jul-Dec)	Maximum Avg. value of factual concentration, mg/m^3, First Bi-annual, 2012 (Jan-Jun)	Maximum Avg. value of factual concentration, mg/m^3, Second Bi-annual, 2012 (Jul-Dec)
1	**Site № 1** Check point **№ 1** Concrete Batching Plant (windward)	Nitrogen oxide	0.4	0.000	0.01	0.008	0.011	0.006
		Carbon Oxide	5.0	0.046	0.018	0.011	0.008	0.062
		Inorganic dust	0.3	0.000	0.243	0.103	0.005	0.003
2	**Site № 1** Check point **№ 2** Concrete Batching Plant (Leeward)	Nitrogen oxide	0.4	0.000	0.019	0.013	0.021	0.022
		Carbon Oxide	5.0	0.000	0.145	0.105	0.042	0.038
		Inorganic dust	0.3	0.000	0.232	0.206	0.08	0.043
3	**Site № 2** Check point **№ 1** Zhanaturmys v. (windward) .	Nitrogen oxide	0.4	0.002	0.012	0.009	N/A	N/A
		Carbon Oxide	5.0	0.004	0.013	0.014	N/A	N/A
		Inorganic dust	0.3	0.000	0.225	0.131	0.002	0.001
4	**Site № 2** Check point **№ 2** Zhanaturmys v (Leeward)	Nitrogen oxide	0.4	0.000	0.008	0.109	N/A	N/A
		Carbon Oxide	5.0	0.000	0.372	0.336	N/A	N/A

№	Place of measurement № checkpoint	Parameters	Maximum Permissible Concentration (MPC) on ND, mg/m^3	Average arithmetic value of factual concentration, mg/m^3 baseline data*	Maximum Avg. value of factual concentration, mg/m^3, First Bi-annual, 2011 (Jan-Jun)	Maximum Ang. value of factual concentration, mg/m^3, Second Bi-annual-2011 (Jul-Dec)	Maximum Avg. value of factual concentration, mg/m^3, First Bi-annual, 2012 (Jan-Jun)	Maximum Avg. value of factual concentration, mg/m^3, Second Bi-annual, 2012 (Jul-Dec)
		Inorganic dust	0.3	0.000	0.161	0.296	0.006	0.006
5	**Site № 3** Check point **№ 1** Kazakh v. (windward)	Nitrogen oxide	0.4	0.007	0.01	0.210	N/A	N/A
		Carbon Oxide	5.0	0.000	0.073	0.552	N/A	N/A
		Inorganic dust	0.3	0.000	0.115	0.268	0.001	0.003
6	**Site № 3** Check point **№ 1** Kazakh v. (Leeward)	Nitrogen oxide	0.4	0.007	0.022	0.216	N/A	N/A
		Carbon Oxide	5.0	0.000	0.12	0.528	N/A	N/A
		Inorganic dust	0.3	0.000	0.205	0.294	0.004	0.021
7	**Site № 4** Check point **№ 1** Karakystak-2 Deposit (windward)	Nitrogen oxide	0.4	Measurements of baseline was not carried out	0.003	0.000	N/A	N/A
		Carbon Oxide	5.0		0.007	0.000	N/A	N/A
		Inorganic dust	0.3		0.004	0.000	0.013	N/A
8	**Site № 4** Check point **№ 2** Karakystak-2 Deposit (Leeward)	Nitrogen oxide	0.4		0.004	0.001	N/A	N/A
		Carbon Oxide	5.0		0.008	0.001	N/A	N/A
		Inorganic dust	0.3		0.004	0.002	0.017	N/A
9	**Site № 5** Check point **№ 1** Construction site (windward)	Nitrogen dioxide	0.085		0.009	0.029	0.004	0.002
		Nitrogen oxide	0.4		0.007	0.006	0.003	0.002
		Sulfur dioxide	0.5		0.03	0.012	0.006	0.002

№	Place of measurement № checkpoint	Parameters	Maximum Permissible Concentration (MPC) on ND, mg/m^3	Average arithmetic value of factual concentration, mg/m^3 baseline data*	Maximum Avg. value of factual concentration, mg/m^3, First Bi-annual, 2011 (Jan-Jun)	Maximum Ang. value of factual concentration, mg/m^3, Second Bi-annual-2011 (Jul-Dec)	Maximum Avg. value of factual concentration, mg/m^3, First Bi-annual, 2012 (Jan-Jun)	Maximum Avg. value of factual concentration, mg/m^3, Second Bi-annual, 2012 (Jul-Dec)
		Carbon Oxide	5.0		0.113	0.075	0.005	0.078
		Inorganic dust	0.3		0.203	0.125	0.011	0.007
10	**Site № 5** Check point **№ 2** Construction site (Leeward)	Nitrogen dioxide	0.085	Measurements of baseline was not carried out	0.012	0.020	0.082	0.044
		Nitrogen Oxide	0.4		0.028	0.110	0.353	0.027
		Sulfur dioxide	0.5		0.034	0.331	0.49	0.033
		Carbon Oxide	5.0		0.33	0.644	3.105	0.315
		Inorganic dust	0.3		0.296	0.293	0.294	0.088
11	Site № 6 Check point **№ 1** v. Aktogan **(**Windward)	Nitrogen Oxide	0.4		N/A	0.002	N/A	N/A

№	Place of measurement № checkpoint	Parameters	Maximum Permissible Concentration (MPC) on ND, mg/m^3	Average arithmetic value of factual concentration, mg/m^3 baseline data*	Maximum Avg. value of factual concentration, mg/m^3, First Bi-annual, 2011 (Jan-Jun)	Maximum Ang. value of factual concentration, mg/m^3, Second Bi-annual-2011 (Jul-Dec)	Maximum Avg. value of factual concentration, mg/m^3, First Bi-annual, 2012 (Jan-Jun)	Maximum Avg. value of factual concentration, mg/m^3, Second Bi-annual, 2012 (Jul-Dec)
		Carbon Oxide	5.0	Measurements of baseline was not carried out	N/A	0.001	N/A	N/A
		Inorganic dust	0.3	0.000	N/A	0.020	0.003	0.002
12	Site № 6 Check point **№ 2** v. Aktogan **(Lee**ward)	Nitrogen Oxide	0.4	Measurements of baseline was not carried out	N/A	0.006	N/A	N/A
		Carbon Oxide	5.0		N/A	0.007	N/A	N/A
		Inorganic dust	0.3	0.000	N/A	0.125	0.005	0.006
13	Site № 7 Check point **№ 1** Loam Quarry – Site №3 **(Wind**ward)	Nitrogen dioxide	0,085	Measurements of baseline was not carried out	N/A	N/A	0.082	Samplings were not conducted in connection with the end of loam mining
		Carbon Black	0.15		N/A	N/A	0.000	

№	Place of measurement № checkpoint	Parameters	Maximum Permissible Concentration (MPC) on ND, mg/m^3	Average arithmetic value of factual concentration, mg/m^3 baseline data*	Maximum Avg. value of factual concentration, mg/m^3, First Bi-annual, 2011 (Jan-Jun)	Maximum Ang. value of factual concentration, mg/m^3, Second Bi-annual-2011 (Jul-Dec)	Maximum Avg. value of factual concentration, mg/m^3, First Bi-annual, 2012 (Jan-Jun)	Maximum Avg. value of factual concentration, mg/m^3, Second Bi-annual, 2012 (Jul-Dec)
		Sulfur dioxide	0.5	Measurements of baseline was not carried out	N/A	N/A	0.001	
		Carbon dioxide	5.0		N/A	N/A	0.001	
		Alkanes	1.0		N/A	N/A	0.000	
		Inorganic Dust	0.3		N/A	N/A	0.003	
14	Site № 7 Check point **№ 2** Loam Quarry – Site №3 **(**Leeward)	Nitrogen dioxide	0,085		N/A	N/A	0.072	
		Carbon Black	0.15		N/A	N/A	0.000	
		Sulfur dioxide	0.5		N/A	N/A	0.105	

№	Place of measurement № checkpoint	Parameters	Maximum Permissible Concentration (MPC) on ND, mg/m^3	Average arithmetic value of factual concentration, mg/m^3 baseline data*	Maximum Avg. value of factual concentration, mg/m^3, First Bi-annual, 2011 (Jan-Jun)	Maximum Ang. value of factual concentration, mg/m^3, Second Bi-annual-2011 (Jul-Dec)	Maximum Avg. value of factual concentration, mg/m^3, First Bi-annual, 2012 (Jan-Jun)	Maximum Avg. value of factual concentration, mg/m^3, Second Bi-annual, 2012 (Jul-Dec)
		Carbon dioxide	5.0		N/A	N/A	1.050	Samplings were not conducted in connection with the end of loam mining
		Alkanes	1.0		N/A	N/A	0.000	
		Inorganic Dust	0.3		N/A	N/A	0.102	

Source: Report for the First and Second Biannual Environmental Monitoring Report for year 2011 and 2012 prepared by DOHWA Consulting Engineers Ltd.,
N/A- Not Available

Table 2.6- 2: Comparative Analysis of Sound level (dB) and corrected variation level (2011 to 2012)- KDS

Location Point	**Maximum Avg. Equivalent sound level (dB), First Bi-annual, 2011 (Jan-Jun)**	**Maximum Avg. Equivalent sound level (dB)- Second Bi-annual, 2011 (Jul-Dec)**	**Maximum Avg. Equivalent sound level (dB)- First Bi-annual, 2012, (Jan-Jun)**	**Maximum Avg. Equivalent sound level (dB)- Second Bi-annual, 2012, (Jul-Dec)**	**Allowable limit, dB**
Concrete batching plant	63	47	55	63	75 ((according to the order of Ministry of Health of RK No. 841 dated 03.12.2004- maximum permissible level)
Village Zhanaturmys	64	48	43	44	
Village Kazakh	59	48	41	45	

Karakystak-2 Deposit (Crushing and Screening Plant)	51	37	N/A	N/A	
Village Aktogan .	N/A	41	42	56	

Table 2.6- 3: Comparative Analysis of Water Quality Results- (2011 to 2012)- KDS

№ s/i	**Place of measurement № checkpoint**	**Indicators**	**Maximum Permissible Concentration (MPC) on ND, mg/m^3**	**Actual concentration, mg/m^3, basic indicator – (September-2010)**	**Maximum concentration mg/m^3** First Bi-annual, 2011 (Jan-Jun)	**Maximum concentration mg/m^3** Second Bi-annual, 2011 (Jul-JDec)	**Maximum concentration mg/m^3** First Bi-annual, 2012 (Jan-Jun)	**Maximum concentration mg/m^3** Second Bi-annual, 2012 (Jul-Dec)
1	Water, Koltogan Canal	pH	6,5 - 8,5	7,37	8.00	7.82	8.09	8.11
		Sodium+Potassium	200	48,3	44.6	37.7	51.1	52.5
		Potassium		20	2.7	2.6	2.92	2.44
		Calcium	180	138	112.1	82.07	160.2	164.13
		Magnesium	50	28,8	22.7	18-12	30.8	29.09
		Copper	1	abs.	Abs	abs	Abs	0.007
		Zink	5	0,05	0.06	0.05	0.05	0.07
		Lead	0,03	Abs	Abs	abs	Abs	abs
		Manganese	0,1	0,064	0.032	0.027	0.05	0.08
		Arsenic	0,05	Abs	Abs	abs	Abs	abs
		Phosphate	5	39,2	3.8	0.28	3.8	5.00
		Chrome	0,05	0,016	0.016	0.013	0.013	0.011

		Iron	0,3	0,044	0.05	0.061	0.2	0.3
		Chloride	350	42,7	100.3	16.4	16.6	16.9
		Sulfates	500	55,7	166.4	82.5	156.6	208.1
		Ammonium nitrogen	20	abs.	Abs	0.83	0.94	0.92
		Nitrate	45	14,2	12	5.6	9.7	9.22
		Fluoride	1,2	0,48	0.68	0.7	0.47	0.81
		Mineral oil	0,1	0,022	0.051	0.1	0.07	0.1
		Suspended materials	0,25	abs.	0.21	0.22	0.09	4.7
		Chemical oxygen demand	30	7,76	20.5	12.8	13.6	15.3
		Biological oxygen demand	6	2,15	4.5	5.05	6.2	6.5
2	Water, Big Chu Canal	pH	6,5 - 8,5	7,13	7,5	7.4	Due to the lack of water, water monitoring has not conducted in Big Chu Channel during this period (January to June, 2012)	6,8
		Sodium+Potassium	200	55,1	13,72	13.72		55,2
		Potassium		10	1,80	1.83		1,5
		Calcium	180	87,8	51,3	55.1		88,9
		Magnesium	50	31	10,35	11.3		30,3
		Copper	1	abs.	abs.	0		Отс.
		Zink	5	0,09	0,001	0.03		0,05
		Lead	0,03	abs.	abs.	0		Отс.

		Manganese	0,1	0,041	0,002	0.015		0,08
		Arsenic	0,05	abs.	abs.	0		Отс.
		Phosphate	5	22,1	0,03	0.1		3,7
		Chrome	0,05	0,027	abs.	0.005		0
		Iron	0,3	0,011	0,01	0.04		0,122
		Chloride	350	20,6	8,68	9.1		15,8
		Sulfates	500	23,6	38,51	39.9		55,3
		Ammonium nitrogen	20	abs.	0,78	0.81		0,77
		Nitrates	45	6,4	7,72	7.66		6,5
		Fluoride	1,2	1,25	0,33	0.5		0,56
		Mineral oil	0,1	0,034	0,03	0.09		0,05
		Suspended materials	0,25	abs.	0,01	0.2		0,74
		Chemical oxygen demand	30	4,05	4,3	10.5		9,22
		Biological oxygen demand	6	1,55	2,1	4.8		4,1

Source: Report for the First and Second Biannual Environmental Monitoring Report for year 2011 and 2012 prepared by DOHWA Consulting Engineers Ltd., abs- absent

Findings:

During the construction period, Kazakhdorstroy undertook the following environmental mitigation measures.

- Dust suppression of construction activities by water spray on disturbed surfaces;
- Covering materials with potential for dust generation by covering the loads with tarpaulins during transport;
- Informing residents adjacent to construction areas prior to commencement of activities;
- Undertaking minor vehicle repairs in designated areas providing protection from oil and fuel spills;
- Disposal of garbage and waste materials outside the construction site and transport to authorised landfill belonging to Oital rural district
- All old tyres and internal tubes was removed from the sites and was done in accordance with land areas rehabilitation design
- Utilisation of stripped and stockpiled topsoil during rehabilitation of disturbed sites;
- Rehabilitation of the following areas in accordance with the approved plan; ;
    - Top soil storage sites
    - loam quarry «Land lot-3»; Merki rayon
    - Construction sites between Km 358.6 – km 389.4

Dust Suppression Activities (left) and covering of bulk materials with tarpaulin during transportation **(right)**

2.4.3 Contract No NCB-1 and NCB-2 - Axsioma Service Contract" LLP

In pursuance of the requirements of "Technical Specifications" and Contract Terms during this reporting period, the Contractor could not prepare Environment Mitigation Plan and Monitoring Programme and submitted any analytical results of environmental quality parameters though the Contractor entered into a Contract with the accredited laboratory ZhB "KESO Otan" LLP under the Contract No. 79 ЖФ. The Contractor entered into an Agreement with State Run Enterprise - "Housing and Communal services of the akimat, Korday region" in January 8, 2013 for rendering services on removal of solid domestic waste for legal entities.

2.4.4 Contract No NCB-3 and NCB-4 - "Construction Corporation Kulager" LLP

In pursuance of the requirements of "Technical Specifications" and Contract Terms during this reporting period, the Contractor could not prepare Environment Mitigation Plan and Monitoring Plan. The Contractor also could not done any analytical results though they contracted accredited laboratory named "KESON UTAN" under the contract number 71 dated April 16, 2012. They had done air quality parameters during the period of October to December, 2012 which was mentioned in Bi-annual Monitoring Report (July- December, 2012).

Observation:

Due to weather conditions in winter season, no major activities were performed at the sites. Moreover, work sites were inoperable due to weather mostly in the reporting period. Though some of the environmental issues/aspects encountered during this monitoring period as mentioned in the Environment Chapter of the monthly progress reports. A summary of the identified issues/problems and required action taken by both of the Contractors are presented in the following Table

Table 2.7: Summary Table – Problems and Solutions (July to December 2013)

Problem	**Mitigation measures by the Contractor**
Kulager LLP- Complex of buildings and facilities DEU- 35 in Village Merke and Akyrtobe	
Solid domestic wastes are littered around the construction site due to absence of containers	The construction site cleared of solid wastes. The special containers for collection solid waste were established
Solid waste is burnt around the construction premises	The identified areas of waste incineration eliminated from the construction site. There is no burnt solid waste.
There is no designated area for temporary storage of waste oils and oily rags	Established designated area for the temporary storage of waste oils and oily rags
There is no separate area for collection of both construction and domestic wastes	The domestic wastes are cleared from construction site and disposed in a designated places
At the construction site of mixed construction waste with municipal and oil rags	Special containers are arranged for storage of different wastes.
Used construction scrap materials were improperly stored	Partially compiled with (negotiations going on)
Axioma Contract Services LLP- Complex of Buildings and Facilities Depot -34 in Village Korday and Otar	
Due to the absence of containers for solid domestic waste construction area littered with solid waste	Installed metal containers in 2 nos. for storage of solid domestic waste on the territory of construction depot both in Korday and Otar from March 15, 2013
No fire shield are available for fire extinguisher	Installed fire shield complete with inventory in the amount of one set each on the territory
Some workers at worksites were not wearing appropriate PPE, exposing them to serious health and safety risks.	Supervisors have been given strict instructions to enforce PPE usage

Maintenance depot-34, Petrol station – Process equipment (petrol pumps) (left) and – Land Improvement - Cement concrete pavement (right)

Maintenance depot-v.Otar, Repair Workshop-Roofing

Maintenance depot-v.Otar, Boiler House- Roofing

2.4.5 Comments on ADB Mission

From 05-08 September, 2013, the ADB Mission on safeguard monitoring led by Mr. Nurlan Djenchurayev and Ms. Ruwani Jayewardene visited the site and discussed all outstanding matters with CSC Dohwa Safeguard Specialists. They had satisfied with compliance of environmental mitigation measures implemented by the contractors.

3.0 ENVIRONMENTAL MANAGEMENT PLAN

3.1 Overview

The Environmental Management Plan (EMP) was designed to avoid, reduce, or at least minimize the adverse environmental impacts that could result from the activities during the implementation and operation of the project. Accordingly, the EMP considered all phases of the Project cycle, namely the detailed design, construction and operational phases of the Project. It consists of various mitigation measures needed to be undertaken in the course of the Project cycle.

All potential environmental impacts identified in the Environment Impact Assessment Report for the said Road project are listed in the EMP. The description of the respective proposed protection or mitigation measures, their attributes and the responsible entities for their implementation were also presented vis-à-vis the impacts. This EMP was presented in a matrix form in the EIA Report and is being used as the basis of the periodic monitoring activities during the construction period of the Project road.

The primary contractual requirements for contractor environmental management are encapsulated in TS 106. The specification provided the framework for environmental management for the construction phase of the project.

Key environmental issues addressed in the specification are summarised below:

A. General

- Conformity with statutory and regulatory environmental requirements
- Avoid creating environmental nuisance – control at source
- Ensure removal of any deposited spoil, debris or silt that is deposited on adjacent land and restoration of the land to its original state to the satisfaction of the engineer
- Prepare and implement an environmental mitigation and monitoring plan (EMMP) based on the technical specifications. Items to be addressed in the EMMP include:

    - Location of Construction Camps, Asphalt Plants, Cement Plants and Related Facilities.
    - Air Quality Monitoring.
    - Water Quality Monitoring
    - Noise & Vibration Monitoring.
    - Community Relations

.

B. Fuel and Chemical Storage

- Sited on impervious base within a bund secured by fencing and located away from watercourse or wetlands.
- Storage capacity 110% of volume of tanks within the bund area
- Adopt methods to ensure no contaminated discharges enter any drain or water course

C. Water Quality

- Prevent any interference with the supply to or abstraction from or the pollution of water resources as a result of construction activities.
- Avoid discharge or deposit of waste materials any matter arising from construction activities into any waters except with the permission of the Engineer and the regulatory authorities concerned.

- Protect all watercourses, waterways, ditches, canals, drains, lakes from pollution, silting, flooding or erosion as a result of construction activities.
- Submit details of temporary drainage work system to the Engineer for approval prior to commencing construction work.

D. Air Quality

- Open burning is prohibited.
- Utilise effective water sprays during the delivery and handling of materials when dust is likely to be created, and to dampen stored materials during dry and windy weather.
- Stockpiles of materials sited in sheltered areas or within hoarding, away from sensitive areas, friable material covered with clean tarpaulins, with application of sprayed water during dry and windy weather.
- Vehicles loaded with an open load-carrying area used for transporting potentially dust producing material shall have properly fitting side and tail boards
- Materials having the potential to produce dust shall not be loaded to a level higher than the side and tail boards, and shall be covered with a clean tarpaulin in good condition
- In periods of high wind, dust generating operations not be permitted within 200 m of residential areas having regard to the prevailing direction of the wind
- Construction vehicles and machinery shall be kept in good working order and engines turned off when not in use.
- In residential areas or other sensitive areas such as nurseries and hospitals etc., advance warning to potentially affected persons

E. Noise

- To be considered as an environmental constraint in planning and construction
- Plant and equipment to conform to international standards and directives for noise and vibration emissions
- Ensure that the operation of all mechanical equipment and construction processes on and off the Site do not cause any unnecessary or excessive noise

F. Earthworks

Surplus excavation and topsoil to be used to reinstate borrow pits and quarries or other areas as may be approved by the Engineer. Materials to be spread so as to limit subsequent erosion and to be re-vegetated as existing ground cover dictates

G. Preservation of Antiquities

- Take all necessary measures to protect any antiquities or archaeological finds as required by the sub-point 4.24 of Conditions of Contract
- Where antiquities are shown on the drawings or otherwise identified during the course of the Works, these shall be protected by means of suitable fencing and barriers to the satisfaction of the Engineer. Provide and maintain access at all times for persons wishing to stop and pay their respects

H. Environmental Enhancement

- All areas to be reinstated with natural vegetation on completion of construction
- All old tyres and internal tubes to be removed from within the Limits of Site by the

Contractor, and subject to the agreement of adjacent land owners, from an additional area 75m either side of the road centre line. All materials to be disposed of as approved by Engineer

- Improve and reinstate the land on which informal roadside service areas have been established by removing all debris and contaminated soils, re-grading to natural ground levels, and re-establishing the natural vegetation where appropriate.

3.2 Implementation of the EMMP

The Contractor is responsible for implementation of EMMP during construction works and Construction Supervision Consultant (CSC) is primarily responsible for supervision of monitoring of the implementation of the EMMP. The CR engaged PMC as an external monitoring consultant' to monitor implementation and supervision of EMMP. As such, the PMC-ADB, CSC monitors and measures the progress of implementation of the EMP on behalf of the borrower/client.

Site inspections were conducted on various environmental aspects of the project and these were audited to form part of the Monthly Progress Report. Domestic environmentalist and International Environmental Specialist went to assess various sites along the Project Road as well as other locations that might pose some environmental concerns in the vicinity of the road such as the active quarry, Contractor's campsite, batching plant, equipment maintenance sites, etc. During the inspection, a number of environmental and safety issues were observed and noted. These issues were subsequently brought to the attention of the personnel concerned on the CSC side as well as discussed with the Contractor's side. The issues observed were generally concerning with the active quarry operations and rehabilitation, potential contamination in proposed material plants, noise and dust generation at soil hauling areas, and contractor's work camp housekeeping. Following CSC' direction and advice, the Contractors should implement these corrective actions and follow up on these actions to ensure their effectiveness.

3.3 Status of EMMP Implementation

Environmental mitigation measures adopted by the contractors as per technical specification are summarized in the following section.

3.3.1 KCC- Contract 004

KCC got completion certificate from the Engineer through Letter Ref.: DH-KAZ 070/2013 dated 01 August 2013 though they failed to complete the whole of the Works within the Time for Completion of 03 June 2013. They submitted monthly environmental monitoring report for July 2013 which is shown in Annex 2. Previously they had submitted environmental monitoring report for each month, semiannual report for 2010, semiannual monitoring report for the year 2011, 2012 (First and second half) and for the first half of 2013.

General

Contractor employed expert (Mitrofanova Ekaterine, Deputy Chief Engineer- in charge Environment) and appointed accredited testing laboratory for conducting environmental quality monitoring to ensure compliance with the terms of the project.

Camps, Asphalt Plants, Cement Plants and Related Facilities

Necessary plans were submitted to Engineer and obtained Engineer satisfaction. All activities were undertaken following Engineer approval. Sub camp was dismantled according to closure plan. Concrete batching plant, crushing & screening plant etc. was located away from settlements and removed; all debris was disposed at designated sites. Handover and acceptance certificates for rehabilitated lands

used for temporary sub camp, stockpiling road construction materials etc. was obtained from relevant authority on December 24, 2013 (see Annex 3).During field visit, it is observed that some construction materials are stockpiled for maintenance works. The following photographs are showing the current status of sub camp area near Aspara.

Present Situation of Sub Camp site near Aspara at Kenes

Air Pollution

Contractors implemented the following actions during construction:

- Effective water spraying during the delivery and loading of materials
- Moistening of the stored materials
- Storing of the reserved materials under the sheds or far away from the residential area on temporary areas
- Covering of the bulk materials with clean tarpaulin with water spraying in the dry and windy weather
- A Vehicle with an open body has the appropriate side and the rear side accessories for less dust formation
- Prevention of the loading of bulk materials over the sides and rear sides
- Prevention of the surface burning

Water Pollution

- Constructed local holding lagoon from reinforcement concrete to collect household sewage at the workers settlement and office, works are stopped at the Crushing screening unit, the equipment dismantled and removed.
- Stream sources and drains are at a great distance from the construction debris
- Waste water is removed by the contract to the filtration fields of sugar factory in Merke

Noise Pollution

The noise pollution is due to vehicle on road; generators, crushing plant, Batching plant etc.; Construction Equipment; Vibration from road vehicle. The concrete plant and crushing screening unit are located away

from settlements. Working equipment is located far away from the community. The following measurements were taken to mitigate the problems:

- Vehicles regularly maintained and silencers checked
- Speed limit enforced on project vehicles
- Construction equipment maintained and silenced

Drainage

Water drainage pipes built in accordance with project. After the construction, drainage is carried out in the same existing channel.

Wastes

- Household waste removed by contract with private entrepreneur Dzhumsheva N.O.
- Development of the waste passports on used oils, accumulators, tires agreed with the Ecological department in Zhambyl Oblast.
- Deliverable of the waste lamps to LLP "Energy Taraz" by contract. There are contracts for the use of used tires and oil

Storage of fuels and chemicals

- The tank for the temporary storage of fuel is established at the Concrete plant with capacity of 49m^3. Has received a new permission on emission №0001258 dated April 28, 2012. for cement unloading area and Concrete mixing plant including installed capacity which was 60 m^3 in accordance with the project, received permission №0001458 dated November 01, 2012.
- Fuel is stored in the garage area in the concrete plant in metal tanks with capacity of (49m^3 and 60m^3 which are installed in accordance with project
- The refueling of transport carries out by fuel filling columns which was operated in March

Top Soil

During construction period, the soil fertile topsoil stored on the temporarily reserved land and will be used for re-cultivation. There are 11 temporary sites were used are (at chainage 358 km, 354 km, 350 km, 345 km, 340 km, 335 km, 329 km, 322 km, 320 km, 315 km , 311 km) while unsuitable material is temporarily stacked within the ROW and measures had been adopted to prevent wash off.

Quarry Site

Loam fields are located in Zhambyl oblast, Merki region which is about 3 km to the north-west direction of the village kenes. KCC extracted sand-gravel aggregate from the following loam fields.

- Field "Asparinskyi 1" points №1-№4, area – 23,7ha
- Field "Asparinskyi 2" points №1-№4, area – 20,6ha
- Field "Kurozek" points №1-№3, area – 31,1ha
- Field "Kuralas" points №1-№4, area – 15,2ha
- Field "Ryskulovskyi" points №1-№4, area – 30,1ha

Geographical coordinates of the geological allotment center accordingly on sections:

- Field "Asparinskyi 1" – $43^0 05' 10.0''$ latitude $73^0 42' 30''$ longitude

- Field “Asparinskyi 2” - $43^0 03' 48''$ latitude $73^0 34' 19''$ longitude
- Field “Kurozek” - $42^0 59' 11''$ latitude $73^0 27' 17''$ longitude
- Field “Kuralas” - $42^0 58' 14''$ latitude $73^0 19' 05''$ longitude
- Field “Ryskulovskyi” - $42^0 59' 53.0''$ latitude $73^0 15' 07''$ longitude

The required quarry area is 120.7 ha. The Contractor obtained mining authorization vide contract No.- №Ю-09-1416 dated 25.08.2011 for 89.6 ha area and №Ю-09-1412 dated 21.09.2011 for 31.1 ha.

By the Minute of the SK ICR №1635 dated August 18, 2011, approved reserves of raw materials in the thousands m^3 on the category C_1 in the following amounts on sites:

1. Kuralas – 594,0 thousands m^3
2. Asparinskyi-1 – 940,0 thousands m^3
3. Asparinskyi-2 – 723,0 thousands m^3
4. Ryskulovskyi – 907,0 thousands m^3

By the Minute of the SK ICR №1655 dated September 15, 2011, approved reserves of raw materials in the thousands m^3 on the category C_1 in the following amounts: Kurozek - 666,0 thousands m^3

Studied physical and mechanical properties of loam determine the stability of quarry walls for the period of field exploitation – 45^0; Field development is conducted by single bench, including “Asparinskyi №1” – 4,0m., “Asparinskyi №2” – 3,6m., “Kurozek” – 2,1m., “Kuralas” – 3,9m., “Ryskulovskyi” – 3,0m. Overburdens are presented by topsoil with average thickness 0,05m.

The Contractor received the following exploitation license and documents of Quarry activities.

№	Name of document	Issued by
1	Exploration contract of loam fields: “Asparinskyi №1”, “Asparinskyi №2”, “Kurozek”, “Kuralas”, “Ryskulovskyi” №527 dated June 20, 2011.	Department of Natural Resources and Environmental Management of Zhambyl oblast
2	Geological allotment №Ю-09-2232 dated April 22, 2011.	State Institution “South Kazakhstan International Department of Geology and Subsoil Use”
3	Conclusion of State environmental expertizes №3/Т-К-428 dated June 15, 2011.	Department of Natural Resources and Environmental Management of Zhambyl oblast
4	Contract on subsoil use fields: “Asparinskyi №1”, “Asparinskyi №2”, “Kurozek”, “Kuralas”, “Ryskulovskyi” №542 dated September 30, 2011.	Department of Natural Resources and Environmental Management of Zhambyl oblast
5	Project of industrial development of loam deposits “Asparinskyi №1”, “Asparinskyi №2”, “Kurozek”, “Kuralas”, “Ryskulovskyi”	LLP “Dake Barlau”
6	Prospecting and evaluation works dated July 01, 2011 to the Contract №527 dated June 20, 2011Y.	Committee for Geology and Subsoil of SA MD “Yuzhkaznedra”, LLP “Tau Oser”.
7	Mining allotment №Ю-09-1406 dated 25.08.2011. for the fields “Asparinskyi №1”, “Asparinskyi №2”, “Kuralas”, “Ryskulovskyi”, and mining allotment №Ю-09-1412 dated 21.09.2011Y. for the field “Kurozek”.	State Institution “South Kazakhstan International Department of Geology and Subsoil Use”
8	Conclusion of expertize for industrial safety “Project of industrial development of loam deposits” in Merke region of Zhambyl oblast “Asparinskyi №1”, “Asparinskyi №2”, “Kurozek”, “Kuralas”, “Ryskulovskyi”	LLP “Tau Oser”.
9	Sanitary and epidemiological conclusion №184 dated September 19, 2011.	DCSSEC of Ministry for Health of RK of Zhambyl oblast (State authority of sanitary and epidemiological service).
10	Conclusion of State environmental expertize №3/Т-К-829 dated September 21, 2011.	Department of Natural Resources and Environmental Management of Zhambyl oblast
11	Minutes of meeting of the South Kazakhstan Department of State	State Institution “South Kazakhstan

	Commission for reserves of mineral resources №1635 dated August 18, 2011Y., fields: “Asparinskyi №1”, “Asparinskyi №2”, “Kuralas”, “Ryskulovskyi”, №1655 dated September 15, 2011., field “Kurozek”,	International Department of Geology and Subsoil Use”
12	Permission on Environmental emissions №0000990 from 01.11.2011. to 31.12.2013.	Department of Natural Resources and Environmental Management of Zhambyl oblast

Source: KCC Engineering and Construction Co. Ltd., August 2013

The following Table indices extraction of clay loam soil from different Quarry Field

Table 3.1: Extraction amount of soil from Quarries

Sl No.	Name of Quarry	Obtained Quantities (thousands m^3)
1	Field “Asparinskyi 1”	242.48
2	Field “Asparinskyi 2”	151.0
3	Field “Kurozek”	240.0
4	Field “Kuralas”	123.33
5	Field “Ryskulovskyi”	864.11

Source: KCC Engineering and Construction Co. Ltd., August 2013

Permission on emission from the re-cultivation plan of quarries was issued up to 31.12. 2013 (№0002132, see Annex 4).

The liquidation project of quarries developed in accordance with the legislation of RK, which got approval from all right-establishing authority. The following Table shows the summary of Rehabilitation Plan for Quarries up to December 2013

Table 3.2 Summary Approved Rehabilitation Plan

Quarry	**Index**	**Unit**	**Quantity**	**Status**
Field “Asparinskyi 1” points №1-№4, area	Area of quarry	Hector (Ha)	23.7	Mechanical and Biological Recultivation was completed
	Area of disturbed land for rehabilitation	Hector (Ha)	3	
	Area to be rehabilitated	Hector (Ha)	3	
	Area for revegetation	Hector (Ha)	3	
	Volume of top soil removed	Hector (Ha)	3	
	Area of top soil stockpile		0.08	
	Volume of earthworks for backfilling deep parts of quarry	Hector (Ha)	8041 m^3 (0.4 ha)	
Field “Asparinskyi 2” points №1-№4, area	Area of quarry	Hector (Ha)	20.6	-//-
	Area of disturbed land for rehabilitation	Hector (Ha)	9.0	
	Area to be rehabilitated	Hector (Ha)	9.0	
	Area for revegetation	Hector (Ha)	9.0	
	Volume of top soil removed	Hector (Ha)	9.0	
	Area of top soil stockpile	Hector (Ha)	0.2	
	Volume of earthworks for backfilling deep parts of quarry	Hector (Ha)	9525 m^3 (0.5 ha)	
Field “Kurozek” points №1-№3, area	Area of quarry	Hector (Ha)	31.1	-//-
	Area of disturbed land for rehabilitation	Hector (Ha)	15	
	Area to be rehabilitated	Hector (Ha)	15	

Quarry	Index	Unit	Quantity	Status
	Area for revegetation	Hector (Ha)	15	
	Volume of top soil removed	Hector (Ha)	15	
	Area of top soil stockpile	Hector (Ha)	0.4	
	Volume of earthworks for backfilling deep parts of quarry	Hector (Ha)	14569 m^3 (8.7 ha)	
Field "Kuralas" points №1-№4, area	Area of quarry	Hector (Ha)	15.2	Mechanical and Biological Recultivation was completed
	Area of disturbed land for rehabilitation	Hector (Ha)	15.2	
	Area to be rehabilitated	Hector (Ha)	15.2	
	Area for revegetation	Hector (Ha)	15.2	
	Volume of top soil removed	Hector (Ha)	15.2	
	Area of top soil stockpile	Hector (Ha)	0.38	
	Volume of earthworks for backfilling deep parts of quarry	Hector (Ha)	8041 m^3 (0.40 ha)	
Field "Ryskulovskyi" points №1-№4, area	Area of quarry	Hector (Ha)	30.1	-//-
	Area of disturbed land for rehabilitation	Hector (Ha)	26	
	Area to be rehabilitated	Hector (Ha)	26	
	Area for revegetation	Hector (Ha)	26	
	Volume of top soil removed	Hector (Ha)	26	
	Area of top soil stockpile	Hector (Ha)	0.65	
	Volume of earthworks for backfilling deep parts of quarry	Hector (Ha)	15984 m^3 (0.8 ha)	

Source: KCC Engineering and Construction Co. Ltd., December 2013

Rehabilitation of quarries was done in accordance with the approval of Engineers. Due to some violations observed by the Natural Resources Department regarding biological rehabilitation works of two quarries (Aspara-2 and Kurozek); KCC could not obtained work acceptance certificate for their quarry works from relevant authority until December 2013.

Rehabilitation works on Quarries – Aspara 1 (Left) and Aspara 2 (Right)


Rehabilitation Works on Quarries- – Kuruzek (Left) and Kuralas (Right)


Rehabilitation Works on Quarries – RysKulovskyi

Health and Safety Management

In the aspect of health and safety the main Contractor requires all subcontractors to assign personnel to be:

1. "responsible person for performance of construction and assembly works"
2. "responsible person for fire protection"
3. "responsible person for safety work performance of an erecting crane"
4. "responsible person for gas supply"
5. "responsible person for electricity supply"
6. "responsible person for provision special cloths and other facilities for individual protection of workers"

In case of accident, the Contractor is to submit brief summary about the accidents as part of the monitoring activities for the previous month. During this reporting period, two accidents have occurred in the month of July in Contract 004 ADB/CW1 Site due to negligence of drivers. A listing of the road accident is shown below:

Table 3.3 List of Accidents in July to December-2013

Occurrence Date/Time	Description
03.07.2013/02:00PM	at Km.335, the driver of a sedan car who is travelling towards Almaty lost control of the steering causing his car to overturned. The driver including 4 passengers sustained

	serious bodily injuries.
31.07.2013/12:20 midnight	at Km, 331+600. A Lexus sedan car driven by Agmanov Erkebulan Adilhanovich hit the concrete barrier protecting the newly repaired concrete pavement. As a result of the impact, the car overturned and the driver sustained serious physical injuries and died on the spot. The two passengers survived the accident but sustained serious bodily injuries

KCC was taken the following health, safety measurement during construction period:

1. Regular meetings were being held between the Engineer and the Contractors about the Health and Safety of all the Contractor's Personnel including Consultants.

2. Alongside with approved Clinics and Medical Staff, suitable arrangements for medical, health, and safety were being implemented by the Contractors on a regular basis. Also conducted were the giving out of Information, Education, Campaigns and Consultations to all Staff and Site workers.

3. A full time medical staff was engaged to attend to the health needs and consultations of the workers.

4. A clinic with first aid facilities was available at the Contractors' Camp.

5. A program for the whole year which reflects the Plan and Schedule of implementing the health and safety awareness for all the workers were prepared (provided in Monthly Report for January 2012)

Protection of Flora and Fauna

A slight negative effect directly from the reconstruction on wildlife and plant life is possible only during the construction of random ramps of construction equipment outside the construction site.

All activities for reconstruction were conducted only within limits of the existing motor road and can't negatively affect on flora and fauna. Victims of moving vehicles on the road often become the representatives of rodent, reptile, insect-eaters inhabiting in easement area.
Reflective metal fences was provided by project which act as a device to scare the animals off the road. At night time when the car headlights hit the light barrier they reflect the bright frightening rays in the transverse direction from the road.

Reclamation project is provided for revegetation of disturbed lands, as well as pre-fertilization of land in order to increase the biological capacity of land after disturbance. In the case of the death of the grass stand the project provides for repeated cycle of works onsite preparation. A list and quantity of works on creating of the grass stand and care of them during the reclamation period (3 years) was submitted in the reclamation project.

The tree cutting was done in accordance with the procedures after getting the permission and relevant acts are drawn up. Felling License № 012270 dated 23.08.2010 - issued by Zhambyl oblast Department of Committee for motor roads was obtained for vegetation clearance (Annex 5)

During construction period, total amount of KZT 3,54,536.19 (Tengi) was paid as compensation for various vegetation clearance. The following table shows the necessary calculation for compensation.

Table 3.4: Calculation of compensation for vegetation clearing in connection with reconstruction of "Taraz-Korday" motor road in Merke rayon of Zhambyl oblast (km 310.5-358.6)

Species	Quantity	Diameter, m.	Height, m.	Volume, m^3	Rate	VAT	Compensation KZT
Elm (Ulmus campestris)	401	0,16	5	16.04	0,42	1413	9519.1
	542	0,24	6	92.14	0,42	1413	54681.41
	376	0,32	8	122.65	0,6	1413	103982.67
	177	0,32	8	93.81	0,6	1413	79532.12
Bush	1110	0,03	1	0.79	0,19	1413	212.1
Total	**2606**			325.43			247927.4
with coefficients				for removal	1,3		322305.62
				for relief	1,1		354536.19
			Total				**3,54,538.19**

Source: KCC, August 2013

Community Relations

KCC held a series of information sessions for local communities to keep them informed about construction progress and upcoming activities.

Construction works are located in rural areas that have limited access to electronic media such as the internet. Local communities were informed at meetings with KCC staff and by local authorities (village akimats) who were briefed directly by KCC management. In addition, the contractor produced a series of posters, information stands and provided information to local media for distribution to local communities.

From June 2013, there was no provision of dissemination for information to the public due to completion of works.

3.3.2 Kazakhdorstroy - Contract 005

As mentioned during Biannual monitoring report (July to December, 2012) that The Kazakhdorstroy LLP completed their civil works about 4 months ahead of the schedule date which was April 18, 2013. And got taking over certificate from the Engineer through the Letter Ref.: SAI-KAZ 120/2012 dated 17 January.

The following table shows the performance of Kazakhdorstroy for the implementation of EMP as per Technical Specifications.

Table 3.5: EMP Implementation as Per Technical Specifications

TS 106 Requirement	EMP Implementation
Prepare CEMMP to satisfaction of Engineer	The CEMMP accepted by the Engineer and approved by the State Department “Zhambyl Oblast Department of Committee for Motor Roads” in January 2012
Environmental Officer Appointed	Contractor has employed expert (Imanbayeva Dinara, Environmental Engineer) to conduct environmental mitigation measures as per technical specification. They conducted environmental quality monitoring as per schedule through appointing accredited testing laboratory.
Siting of facilities planned and sited to satisfaction of Engineer	Necessary plan for Sitting of housing facilities, labour camp, storage of equipment & vehicles, asphalt plants and similar facilities was submitted to the Engineer during September –October 2011 and oral approval was obtained by the Engineer.
Pre-construction AQ monitoring as required by Engineer	Yes, AQ baseline monitoring in accordance with Engineer approval
Pre-construction TSP monitoring at no less than 2 sites	Yes – Sites identified in monthly monitoring report
Monitoring undertaken by third	Yes- Undertaken by KESO Otan LLP – Accreditation Certificate KZ.67 of

party organisation acceptable to the Engineer	05.03.2012
Pre-construction water quality monitoring as required by Engineer	Yes – Water quality baseline monitoring at approved sites (Koltogan Channel, Big Chu Channel)
Monitoring includes TSS, BOD, DO, conductivity, faecal coliform, oil & grease	Yes (see monthly monitoring report)
Pre-construction baseline monitoring of noise and vibration at minimum 2 sites including major settlements	Yes - Baseline noise monitoring undertaken as required
Community relations Requirements	Yes - Public provided prior information by mass media, community meetings and village Akims. Notices placed in local papers
Fuel and chemical storage sited on impervious base within a bund secured by fencing	Road-construction machineries filled with special transport- petrol tanker. The storage of oil mineral was implemented at the petrol station territory of IE(Individual Enterpreneur) Nurseitov upon the Agreement (No. dated 01.01.2011).
Contractor shall prevent any interference with supply or abstraction from supply or pollution of water resources including ground water	Not Applicable- There was no influence on water sources and underground water
Contractor shall at all times ensure that all existing stream courses and drains within and adjacent to the Site are kept free from any debris and materials arising from the Works	All activities were designed during the execution of works preventing any adverse impact on water sources. These activities were included in EMMP.
Contractor shall utilise effective water sprays during delivery and handling of materials when dust likely to be created and to dampen stored materials during dry and windy weather	Yes – Water sprays utilised as required
Any vehicle with an open load carrying area used for transporting potentially dust producing material shall have properly fitting side and tail boards	Yes - All loading vehicles were provided with properly fitting side and tail boards
Appropriate measures shall be taken to limit exhaust emissions from construction vehicles emissions from construction vehicles, machinery & plant & contractor shall include details in EMMP	Yes – New machinery and vehicles were acquired for the project. All complied with International emission standards (Euro 3) and were maintained by qualified subcontractor in accordance with manufactures' specifications
Contractor shall use plant and equipment conforming to international standards and directives on noise and vibration emissions	Yes - Crushing plant, mortar concrete plant, soil-mixing plant conforms to the requirements of international standards (Euro 3). Noise reduction in crushing and screening plant was not performed
Surplus excavation and topsoil shall wherever possible be used to reinstate borrow pits and quarries or other areas as may be approved by the Engineer	Yes – Rehabilitation Plan approved by the Engineer and implemented as shown in article 3.5.2.1 of this report. Included re-spreading stored top soil

On completion of the Works the Contractor shall reinstate all areas with natural vegetation to the satisfaction of the Engineer	Yes – Rehabilitation Plan approved by the Engineer and implemented as shown in article 3.5.2.1 of this report.
When directed by the Engineer, the Contractor shall improve and reinstate the land on which informal roadside service areas have been established by removing all debris and contaminated soils regarding to natural ground levels, and reestablishing the natural vegetation	Yes – Rehabilitation Plan approved by the Engineer and implemented as shown in article 3.5.2.1of this report. Included removal of all debris, regarding to natural ground levels and reestablishing natural vegetation.

Rehabilitation of Quarry Site and Lands

Kazakhdorstroy LLP concluded contract for use of subsoil resources at the deposit of loam "Land Lot – 1" situated in T. Ryskulov rayon and "Land Lot 3" located in Merke rayon. Deposit "Land Lot -1" could not developed. Deposit "Land Lot-3" was developed in 2012. Production output made 266.0 thousand m^3. The contract for sub soil use was terminated from October 25, 2012 after getting resolution of Zhambyl Oblast Akimat No 314.

Re-cultivation of quarries was done in October, 2012 in accordance with the approval of Engineers. KDS got handed over certificate and work acceptance certificate from relevant authority (see Annex 6). From 22nd to 25th April, 2013, biological rehabilitation (sowing of perennial grasses, wheat grass etc.) of destructed lands, allocated in temporary use for stockpiling of road construction materials and top soil layer, destructed lands of the quarry provided for production of loam and maintenance of access road on the territory of Merke rayon.

Mechanical and biological rehabilitation of temporary occupied land lots was conducted without violations of normative, legal norms and handed over to the original land owners.

Rehabilitation of Lands

Rehabilitation of lands temporary occupied for overhaul repair of the motor road was performed for the following objects:

- rehabilitation of temporary occupied lands for construction site of the Contractor;
- rehabilitation of other temporary sites for various purposes;
- reclamation of temporary access roads to the objects of construction;
- rehabilitation of lands earlier (before flattening) occupied by existing motor road.

Complex of works for rehabilitation of lands destructed in the process of overhaul repair of the motor road consists of 2 stages:

the first stage – technical rehabilitation including activities for stripping and storage of top soil, vertical levelling of land surface after development, flattening of slopes, return of top soil layer on designed surface, treatment of soil surface by blade cultivator;

the second stage – biological rehabilitation including activities for fertility restoration of disturbed lands after the first stage, pre-planting cultivation of soil, planting of perennial grasses and post-seeding rolling.

Kazakhdorstroy approved Rehabilitation Plan is summarised below :

Table 3.6: Rehabilitation Plan for construction of the motor road "Almaty-Korday-Blagoveshenka-Merke-Tashkent-Termez" km 358,6-389,4 on the territory of Merke rayon in Zhambyl oblast

№	Name of land lot	Cadastral №	Area of lands(ha)	Target purpose	Method of rehabilitation	Cleaning	Levelling	Levlling of TSL
km 358,6-km 389,4								
1	Land lot №1 км 372+600 right 60 м.	06-092-092-015	3,01	(for stockpiling of TSL, RCM and access road maintenance)	Technical, Biological	100%	100%	100%
2	Land lot №2 км 362 right 170 м.	06-092-017-092	3,01	(for stockpiling of TSL, RCM and access road maintenance)	Technical, Biological	100%	100%	100%
3	Land lot №3 км 369+600 left 60 м.	06-092-022-295	3,1	(for stockpiling of TSL, RCM and access road maintenance)	Technical, Biological	100%	100%	100%
4	Land lot №4 км364 left 30 м.	06-092-022-296	3,006	(for stockpiling of TSL, RCM and access road maintenance)	Technical, Biological	100%	100%	100%
5	Land lot №1 км353+300 right 25 м.	06-091-088-319	3,01	(for stockpiling of TSL, RCM and access road maintenance)	Technical, Biological	100%	100%	100%
6	Land lot №2 км 377+800 left 50 м.	06-091-093-550	3	(for stockpiling of TSL, RCM and access road maintenance)	technical	100%	100%	100%
7	Land lot №3	06-092-020-116	13,97	Area of land acquisition for mining of loam on deposit "Land lot № 3" and access road maintenance	Technical, Biological	100%	100%	100%

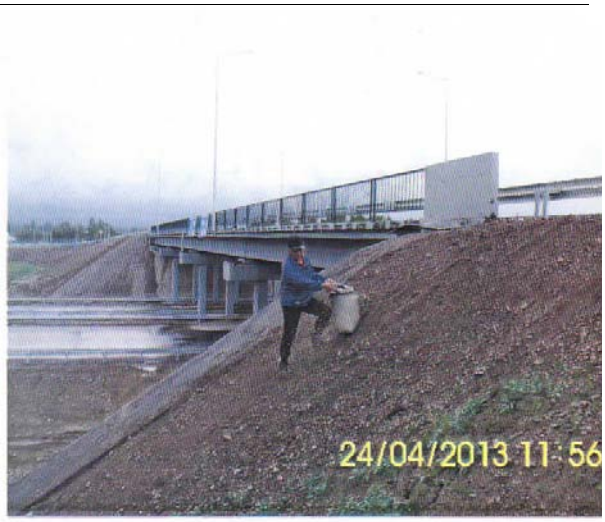
Source: KDS, December 2012

Works on rehabilitation of lands which was occupied for road construction (section km 358.6- 389.4) were executed by KDS LLP in compliance with normative, legislative norms and rules. The commission considers that rehabilitated lands are suitable for subsequent agricultural use in the context of the previous lands. (see Annex 7).

Mechanical rehabilitation of loam quarry «Land lot-3»

Biological rehabilitation of loam quarry «Land lot-3» (left) **Present situation of loam quarry «Land lot-3» in August 2013(right)**

Rehabilitation for sites of temporary stockpiling of top soil layer and road construction materials



Biological Rehabilitation on slopes (left) and transport interchange (right) of road section km 356.8-389.4

Biological Rehabilitation on shoulders-of road section km 356.8-389.4 (Big Chu Channel)

Biological Rehabilitation on shoulders-of road section km 356.8-389.4

Occupational, Health and Safety Issues

Occupational health & safety is an integral part of the health management system. It is concerned with the interrelationship between work and health safety of contractor's capacity to work. Further pursuant to the clause 6.4 of the GCC, "The Contractor shall comply with the relevant laws applicable to the Contractor's Personnel, including Laws relating to their employment, health, safety, welfare, immigration and emigration and shall allow them all their legal rights".

Medical station was established since 2010 for rendering first medical aid on the territory of construction camp , where the permanent/shift work of two medical workers was organized.

Activities for daily morning and evening pre-trip medical examination with alcohol detecting device and tonometer for the employees: drivers, fitters, repairmen were carried out.

The measures aimed on prevention of HIV infection in Zhambyl branch were performed on 22.02.2012 in ZB of "Kazahdorstroy" LLP in cooperation with the staff of the Regional Centre for the Prevention and Control of AIDS. At the end of the event the handout material was issued in 150 copies and booklets devoted to the given theme of 150 copies respectively, the condoms were given for all comers in amount of 500 pieces.

ZB of "KazahDorStroy" LLP signed a contract with the "Central District Hospital of Merke rayon" of Department for health of Zhambyl oblast for a periodic medical examination and survey of workers engaged in heavy works or work under harmful (particularly harmful) and (or) hazardous working conditions. All employees underwent periodic medical examination. The Contract with "Nauryzbai" LLP for for the supply and provision of medicines for the company employees.

All facilities were provided with universal medicine kits and transport vehicles with car kits. All requirement of labor legislation were observed during conclusion of labor contract with the employees.

The employees engaged in heavy works, and worked in hazardous and dangerous conditions were provided with additional leaves and special food (kefir). Canteens where the employees were provided with three meals daily and during night shift were organized: 3 points of public catering in the form of cafe, where all the employees had sanitary books. There are conclusions from DSSEC of Merke rayon of water analysis for disinfection and disinfestation. Control for food quality with observation by the medical workers was conducted.

Also the workers were provided with special clothes for summer and winter periods respectively.

ZB of "Kazakhdorstroy" LLP concluded the agreement of compulsory social insurance for personal injury to life and health of the employee when performing of job duties. Agreement has been made with the branch of "Oil Insurance Company" JSC on September 24, 2011. (Annex 8)

3.4 Capacity Building

Part of the scope of the environmental specialist is to develop a program for hands on training of Contractor's staff in implementing the EMMP. On several occasions such trainings was conducted by the International Environmental Specialist for capacity development of the engineers and contractor's staff.

During this period, ADB has appointed an Individual Entrepreneur Ms. "Dzhunusova G.A to conduct an ecological audit and training for the environmental protection during construction period. She made a training program on October 24 & 25, 2013 among the relevant personnel of Engineers and Contractors. The following training modules were discussed:

- Tutorial for adherence to the environmental protection requirements
- Mitigation measures on environmental impact following to construction period
- Manual on Environmental Management during construction period

These were helpful in clarifying issues and facilitating the implementation of needed measures.

3.5 Social Impacts

Owners of the lands acquired for the construction of the highway have been duly compensated. However people living in the close proximity to the ROW get affected due to various construction activities.

Pubic complaints received are directed to contractor for necessary remedial actions. Status of public complaints is periodically discussed through Public Complaints Resolving Monitoring (PCRM) meetings held at CSC's 's Office, once a month. Representatives from MOTC, PMC, Engineer, and Contractor participate in the above meeting. Apart from this, regular Joint field Investigation Visits are also conducted for nightly, to investigate the status of complaints. Further representatives of engineer and contractor participate in Grievances Redress Committee (GRC), meetings convened by local Akim.

Total 57 grievances have been received from 53 no. local people/community till December 2013. The status of environmental related complaints are listed below. All other complaints have stated in the social monitoring report.

Table 3.7: Status of the grievance under Environmental Issue (Km 331- 389)

No	Date of receiving the complaints	Approximate Location	Name of complainant	Contact information	Description of complaints (Problematic issues)	Status (What actions have been taken)	Resolved/ Not resolved
1	January, 2011	Km 305-331 Aspara v.	PK "Aspara", Mikheev Gennadiy Ivanovich, Bayzhumanov Zharylkasyn Ayupovich	87779644180, Merke d., Aspara r.d., Tsentralnaya str., 2	Problem with irrigation system and not only for them, but also for many households in their rural district.	Contractors already explained to AP that new pipes will be suit to the old pipes. So, they will not have any problems with irrigation system.	Resolved
2	November 18, 2010	Zhanaturmys v.	Aiymbekov Zh. Shanbayev N. Zhunisbayev A. Satybaldiyev T. Nutayeva T. Boribayeva		The impact of the vibratory rollers led to some cracks on the wall of houses which are built near the project road.	There was a meeting with participants of ADB and local residents regarding this problem and decided to give 1 ton of cement. All 9 (nine) families received 1 ton of cement. Laboratory tests on vibration were conducted by the ZhB"KESO Otan" LLP. The conclusion of this laboratory was that it didn't exceed the permissible limits, according to GOST 23337-78, GOST 12.1.036-81.-	Resolved
3	July 07, 2011	Aktogan v.	akim of Aktogan v., Omirbekov O.	35419	In connection with the spring floods on Nartayev and Amangeldi streets, water is flowing and hampered by the project road. The accumulation of water leads to the concrete sinking to the nearly located houses. People ask to make a withdrawal of the channel.	The channel was withdrawn to the pipe that is located at PK 372+076.	Resolved
4	July 11, 2011	Zhanaturmys v.	"Bayan &K" GP – Togaev S.K., "Zhana-Turmys-98" LLP – Zhamalbekov K., Aksaray" hh – Togaev N.K.	Ryskulov d., Zhanaturmys r.d.	Water pipe was removed, so 16 families have to use mountain water. In the reply from Akimat is written "all of them have	The elimination of the pipe was planned at 383+784 km according to the project. At that time, the road pavement works have been executed there. The	Resolved

No	Date of receiving the complaints	Approximate Location	Name of complainant	Contact information	Description of complaints (Problematic issues)	Status (What actions have been taken)	Resolved/ Not resolved
					asked and that is why we have taken it". But none of members of LLP-98, "Aksaray" hh, "Bayan & K" TS have been informed and none of them put their signatures. These people are worried about what can happen with daily living and crops without water.	residents of Zhanaturmys v. have requested a new pipe to be built. And regarding to this problem it was decided to build a borehole (well). The contract has been signed by the subcontractor "Gidreologia" LLP. The construction of borehole (well) is ready to start.	
5	August 12, 2011	Zhanaturmys v.	Residents of Zhanaturmys v.		There is accumulation of water in the cattle-crossing. The road signs are not installed on the entry and exit of Zhanaturmys road.	Water accumulation is not observed. Regarding to the road safety, all the road signs are installed in accordance with the order for work production agreed with the traffic police.	Resolved
6	April 2011	Km 382+977 Zhanaturmys v.			Villagers have requested an additional cattle crossing at Km 382+977.	The additional cattle-crossing was constructed. But it is too low from ground level and can be flooded. The additional pipe was constructed on km 382+956 for account of the Contractor.	Resolved
7	January 25, 2012	Zhambyl v.	Orazbayev O. Salahov K. Ismanov R.		People asked to build another cattle-cross near the village, as the distance for the cattle-crossing is 4,5 km and it creates inconvenience for the driving of cattle. People asked to build one more cattle-cross in the bridge area of Big Chu Channel, as earlier there was 2-levelled bridge where the cattle could pass freely.	Visiting meeting was conducted with participation of engineer, representative of contractor and local residents about the construction of a new cattle-cross in this area.	Resolved

No	Date of receiving the complaints	Approximate Location	Name of complainant	Contact information	Description of complaints (Problematic issues)	Status (What actions have been taken)	Resolved/ Not resolved
					Nowadays, there are about 3000 cattle.		
8	30 November, 2012	Zhanaturmys	Usenova Gulzat Zhazhorbayevna	8 705 241 04 28 (mob) 5 29 24 (home)	A toilet constructed very close to her café (Ak Jol), (15 meters) but according to Sanitary Norms of RK the distance between projected toilet and café should be at least 50 meters, so she asks to shift this toilet to another place.	Contractor has conduct survey on 22 December and found that the distance between Café and toilet is 10 meter. This corresponds the norms of Kazakhstan. So public toilet is not shifted as per decision of the RD	Resolved
9	29 November, 2012		Usenova Gulzat Zhazhorbayevna	8 705 241 04 28 (mob) 5 29 24 (home)	She needs ramp to her café (Ak Jol).	Same person as sl. No. 3. The contractor constructed toilet without keeping pedestrian way to Cafe. Decision taken by the Hzambyl RD that access road cannot be provided according to the road design.	Resolved
10	19 November, 2012	Aktogan v.	Alimbayev Kyrgyzbai	Kunanbayev St., 1, Aktogan village 3-54-14 (home)	1) To date walls of his house have big cracks because of the equipment of Kazakhdorstroy passing their street. 2) He suffers in spring and autumn because of the very big water flow from mountains. Before there was a little culvert and they diverted the flow of the water to fields. Now due to construction of the road this	1) According to our investigation the house is not affected by the Project because it is located 60 meters away from the constructed road and house is classified as an old house that is the reason for cracks. Anyhow as a help Contractor (KDS LLP) provided this complainant with two bags of cement for repairing of the cracks. 2) KDS LLP surveyors made a survey of that section and submitted the survey results to	Resolved Resolved

No	Date of receiving the complaints	Approximate Location	Name of complainant	Contact information	Description of complaints (Problematic issues)	Status (What actions have been taken)	Resolved/ Not resolved
					culvert was removed and nothing is there instead of this culvert.	DOHWA. It`s possible to construct there a drainage/channel for water flow but because of the Beeline cable passing there it can be constructed only if it will cross the private land. (Land plot of neighbors located opposite to the house of complainant). The claimer was asked to make an agreement with land owners about this. Finally it is done and the claimer has no more claims over it.	

4.0 CONCLUSIONS

The biannual environmental monitoring report during the period of second half of 2013 relates to the progress of implementation of the EMMP during the last six months (July to December) of 2013 in respect of various work components of Contracts (contract 004 and 005) and Depot contractors (Contract No. NCB 1, NCB 2, NCB 3 and NCB 4) under Tranche 2, Zhambyl Oblast Section).

Within the framework of the project's environmental management, the supervision tasks consist of continuous monitoring by the CSC (the Engineer), environmental monitoring and management of project implementation and assistance in ensuring the implementation of environmental management practices at each stage of the construction. The environmental monitoring has been carried out by an International Environmental Specialist with the support of domestic environmental specialist. The specialist has developed an environmental auditing protocol for the construction period, formulate a detailed environment monitoring and management plan (EMMP), regularly supervise the environmental monitoring, and submit periodic reports based on the monitoring data and laboratory analysis reports. The specialist has also developed a program for hands on training of contractor's staff in implementing the EMMP.

Both the contractors – KCC and KDS completed their works and got taking over certificate from the Engineer following inspection by the Working Commission on August 1 and January 17, 2013 respectively.

During the reporting period from July to December 2013, the contractor of KCC E & C (contract No. 004) has conducted monitoring of ambient air, noise and water samples for the month of July. The monitoring results of all the parameters are within the standard of Republic of Kazakhstan.

The status of various activities undertaken by both of the Contractors right from the Contract signing to setting up site offices and construction camps, mobilization of equipment and manpower site clearing, cut and fill activities, earth works, operation of quarries, movement of vehicles and construction materials were provided in the EMMP matrix and as per Technical Specification.

The quarry operation has been undertaken by the contractors within the purview of the rules and regulations in Force and according to Environmental management plan developed by them. All the Contractors (KCC and KDS) have obtained the necessary approvals and licenses from the relevant Authorities for quarry operations and subsequent operations are to be in accordance with the requirements of these Authorities.

Sitting and operation of Cement and Concrete Batching Plants have been undertaken in accordance with all current rules and regulations for protection of environment.

Both Contractors took reasonable precautions to maintain the health and safety of the Contractor's Personnel and to provide a safe work environment.

Both the Contractors provided dust suppression measures, watering of the works and roads, and other areas immediately adjacent to the Construction Works according to the direction of the Engineer.

Both Contractors prepared necessary plan and executed the work so as to minimize the possibility of pollution of areas adjoining the construction work sites or any area utilized by the Contractors for the project, from contaminants such as petroleum products, trade waste, garbage and other noxious substances.

The tree cutting was carried out in accordance with the procedures after getting the permission and relevant acts are drawn up. Necessary compensations were paid in cash by both contractors for various vegetation clearance.

Works on rehabilitation of lands which was occupied for road construction were executed (both in mechanical and biological) by KDS LLP in compliance with normative, legislative norms and rules.

On the other hand KCC was completed the mechanical and biological stage of re-cultivation for quarries for Aspara 1,Aspara 2, Kuralas, Kuruzek and Ryskulovskyi field in accordance with the approval of Engineers. Due to some violations observed by the Natural Resources Department regarding biological rehabilitation works of two quarries (Aspara-2 and Kurozek); KCC could not obtained work acceptance certificate for their quarry works from relevant authority until December 2013.

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Training and capacity building was performed by the International Environmental Specialist to the Contractor's staff and Engineer's domestic environmentalists through a number of discussion meetings, joint inspections, development of monitoring checklists, guidelines etc. During this period, Environmental training was also conducted by the Individual Entrepreneur organized by ADB for the Contractor's and Engineer's staff. These were helpful in clarifying issues and facilitating the implementation of needed measures.

As the DOHWA's work has been extended up to December 2014 and all construction works including DEPOT winds down and the project nearing completion, a final environmental monitoring report will have to be done in next November 2014.

Annex 1

Methods for conducting Environmental Quality Parameters

ANNEX -2

Methods for conducting environmental quality parameters

Air of sanitary protection zone			
№ i/o	Showings	Method of conducting	Measuring means
1	Suspended particles of dust	GOST 17.2.6.02-85	Gas analyzer GANK -4
2	Nitrogen dioxide	GOST17.2.6.02-85	Gas analyzer GANK -4
3	Sulfur dioxide	GOST17.2.6.02-85	Gas analyzer GANK -4
4	Carbon monoxide	GOST17.2.6.02-85	Gas analyzer GANK -4
5	Aldegidy	GOST17.2.6.02-85	Gas analyzer GANK -4
Physical characteristics			
6	Noise	GOST12.1.050-86 GOST23337-78	Noise and vibration analyzer «Assistant»
7	Vibration	Government Order of Ministry of health 3.12.2004 № 841	Noise and vibration analyzer «Assistant»
Natural, drinking and waste water			
9	pHvalue	Tech. regulation № 456 of 13.05.2008	pH – 150 M
10	Potassium	PND F 14.1:0:4.167-2000	Capillary electrophoresis system «Kapel-104 T»
11	Sodium	PND F14.1:0:4.167-2000	Capillary electrophoresis system «Kapel-104 T»
12	Calcium	PND F14.1:0:4.167-2000	Capillary electrophoresis system «Kapel-104 T»
13	Magnesium	PND F 14.1:0:4.167-2000	Capillary electrophoresis system «Kapel-104 T»
14	Lead	M 01-02-2010	Liquid analyzer «Fluorat-02-3M»
15	Zink	PND F14:1:2:4.183-02	Liquid analyzer «Fluorat-02-3M»
17	Manganese	PND F14.1:2:4.188-02	Liquid analyzer «Fluorat-02-3M»
18	Phosphate	PND F14.1:2:4.157-99	Capillary electrophoresis system «Kapel-104 T»
19	Chlorides	PND F14.1:2:4.157-99	Capillary electrophoresis system «Kapel-104 T»
20	Sulfates	PND F14.1:2:4.157-99	Capillary electrophoresis system «Kapel-104 T»
21	Ammonium nitrogen	PND F14.1:0:4.167-2000	Capillary electrophoresis system «Kapel-104 T»
22	Nitrates	PND F14.1:2:4.157-99	Capillary electrophoresis system «Kapel-104 T»
23	Fluorides	PND F14.1:2:4.157-99	Capillary electrophoresis system «Kapel-104 T»
24	Mineral oils	PND F14.1:2:4.128-98	Liquid analyzer «Fluorat-02-3M»
25	Suspended substances	GOST 26449.1-85	Gravimetric method
26	Chemical oxygen demand	PND F14.1:2:4.190-03	Liquid analyzer «Fluorat-02-3M»
27	Biochemical oxygen demand	RD 52.24.420-2006	light-and-dark-bottle method
28	Iron	PND F14.1:2:4.29-95	Liquid analyzer «Fluorat-02-3M»
29	sodium dodecyl sulfate	PND F14.1:2.158-2000	Liquid analyzer «Fluorat-02-3M»
30	Nitrites	PND F14.1:2:4.157-99	Capillary electrophoresis system «Kapel-104 T»

Annex 2

Environmental Report of July by the Contractor (KCC) for protection of Environment

CAREC Investment Project Two (Trance 2) – Zhambyl Oblast Section

Contract №004 ADB/CWI

Monthly Monitoring Report

(July 2013)

Reporter Name: Mitrofanova E.V.

Contractor Name: KCC «Engineering and Construction Co., Ltd.» in Zhambyl oblast Date: July 2013Y.

Month: July (Monthly Monitoring report) Year: 2013Y. Signature:

Specification Requirement	Implementation Activity	Implementation			Comment / Verification / Proposed Action
		Yes	Part	No	
General					
1. Contractor shall provide environmental mitigation and monitoring plan (EMMP) in connection with the submission of the Program based in the Technical Specifications	1.1 Plan submitted	V			Monitoring Plan submitted. There are Programs of industrial ecological control the permission for emission from the road construction till July 01, 2013Y. by the concrete batching plant and cement-receiving area, by the work of the crushing-screening plant and from the work of quarries. Instrumental laboratory measurements were carried out in July 05, 2013Y.: to air on the borders of Sanitary protection zones in 5 places at 10 control points on 5 components; - to natural water in 1 place at 1 control point on 22 components, well on 22 components; sewage analysis from septic tank No.1 – rotational camp on 13 components.
2. Contractor shall nominate senior staff person to be responsible for follow-up of implementation of EMMP and guidance of	2.1 Appointed person	V			16.02.2012Y. Ecologist fired in accordance with retirement. The duties of ecologist performs to deputy chief engineer Mitrofanova E.V.

the Contractor staff and reporting to Engineer	2.2 Briefing held with the responsible subcontractors	V			4 Subcontractors worked in July.
	2.3 Reports have prepared for Engineer	V			July 2013Y.
3. EMMP shall be provided as a part of the method statement	3.1 EMMP provided with method statement	V			EMMP is the part of the construction of the road section.
Specification Requirement	**Implementation Activity**	**Implementation**			**Comment / Verification / Proposed Action**
		Yes	**Part**	**No**	
Siting of Camps, Concrete-batching Plants, cement Plants and Related Facilities					
4. Inspection of construction sites and environmental restoration of facilities for housing of construction staff, storage of equipment & vehicles, labour camps, concrete plants, crushing screening plant and similar facilities must be planned to the satisfaction of the Engineer.	4.1 Plans are submitted to Engineer 4.2 Received the approval of the Engineer	V			Received: Ecological conclusion to the section of the EIA (Environmental Impact assessment) sites for storage of cement and concrete batching unit under No.Z/T-K-49 dated April 19, 2011Y. Received new permission on emission into the environment on site for storage of cement and concrete batching unit under №0001258 dated 28.04.2012Y. in connection with the installation of tanks for temporary storage of diesel fuel. Received permission for special water use №Shu-T/170 T/R dated 01.07.2011Y. to use water well. Received: Ecological conclusion on the project OVOS of work on crushing - screening plant Z/T – K-589 dated 21.07.2011Y., - Permission on the emission in the Environment at Crushing Screening Plant №0000913 dated 01.09.2011Y., Environmental report and permission for the emission of quarry work No.0000990 dated November 01, 2011Y. The project EIA recultivation of quarries has developed. Developed working project EIA for the II construction stage of the concrete plant and for the installation of II capacity for the temporary storage of fuel. Received sanitary conclusion on EIA project and working project of II construction stage of the Concrete plant No.124 dated 09.08.2012Y. Received: Ecological conclusion No.ZT-N-722 dated 02.09.2012Y. to the EIA project of II construction stage of the Concrete plant. The application handed over to Nature and natural resources in October 10,

					2012Y. for receiving the permission on emission. Received permission on emission of II construction stage of the Concrete plant No.0001458 dated 01.11.2012Y. The work is underway in accordance with the Legislation of RK on liquidation of soil quarries and wells. Liquidation project of quarries is developed. Received approval from all right-establishing authority. The permit No.0001946 since April 15, 2013Y. for emission into the Environment from quarry recultivation. Received the liquidation project of the well, now work is carried out for making contract on liquidation of well.
Specification Requirement	**Implementation Activity**	**Implementation**			**Comment / Verification / Proposed Action**
		Yes	**Part**	**No**	
Air Quality Monitoring					
5. EMMP shall specify proposed pre-construction monitoring to verify baseline conditions as advised by Engineer	5.1 Pre-construction AQ monitoring included in EMMP	V			Air quality monitoring before the performance of work for the construction of roads conducted in September 2010Y., on the concrete plant in November 06, 2011Y., storage of cement 13.07.2011Y. and crushing screening plant in April 06, 2011Y.
	5.2 Recommendation from an Engineer			V	There were no recommendations.
6. Pre-construction TSP monitoring at not less than 2 points depending on proposed location of pollution sources	6.1 Check items are defined	V			Check items are defined and available on the scheme.
7. EMMP shall specify locations and frequency of routine instrumented monitoring of AQ	7.1 Locations of measurement in the process of carrying out monitoring defined	V			In EMMP indicated location and frequency of monitoring air quality.
8. AQ monitoring required not less than once per month	8.1 AQ monitoring is available monthly	V			AQ Monitoring is conducted monthly.
9. Additional event-related monitoring may be required by Engineer	9.1 An additional monitoring is require	V			Engineer required carrying out an additional monitoring at the cement-unloading area. Analyze of inorganic dust at the border of the Sanitary-protection zone.

10. Monitoring undertaken by third party organisations acceptable to Engineer	10.1 Received the approval of the Engineer	V			Monitoring is undertaking by accredit testing laboratory in branch Zhambyl oblast, Ltd. «KESO OTAN», №KZ.I.081065 from 14.12.2010Y.
11. Following AQ provisions apply to crushing and screening plant, concrete mixing plant	11.1				In mid-May the Crushing and screening plant is dismantled and transported to another contract to bypass road in Taraz.
a. Open burning prohibited	a is executing	V			The written orders about prohibition of open burning are given to the Concrete mixing plant. We are constantly control for its performance. There was no open burning in July 2013Y.
b. Solvents & materials used to Engineer's satisfaction	b the materials are use with approval of the engineer	V			Testing laboratory of the branch of JSC KCC receives an approval for the use of fluids and materials.
c. Blasting limited to small charges	c Blasting works are not conducted			V	Blasting works are not allowed.
d. Dust generating items conveyed under cover	d Construction materials are not covered in storage			V	All materials have already used from the site, the areas are recultivated.
e. Road surfaces, excavations & construction sites water sprayed for dust control	e Dust is suppressed by watering	V			Dust is suppressed by watering
f. Trucks carrying earth, sand or stone covered with tarps to avoid spilling.	f Trucks covered with tarps		V		Issued written orders which are execute incompletely.
Specification Requirement	**Implementation Activity**	**Implementation**			**Comment / Verification / Proposed Action**
		Yes	**Part**	**No**	
Water Quality Monitoring					
12. EMMP shall include pre-construction monitoring to verify baseline conditions at locations as advised by Engineer	12.1 Pre-construction monitoring of WQ included in EMMP	V			r.Aspara and r.Kayindysay. Monitoring of water quality of these rivers is included in the plan EMMP. Monitoring is performed monthly. There wasn't water in the river Aspara in July.
	12.2 There weren't recommendations of Engineer			V	There weren't additional recommendations of the Engineer.
13. Pre-construction WQ monitoring to include suspended solids (SS), biological oxygen	13.1 Required parameters included in pre-construction WQ	V			Preliminary WQ monitoring is conducted in all parameters (22 parameters). Preliminary WQ monitoring is conducted

demand (BOD) and dissolved oxygen (DO), conductivity, faecal coliforms and oil & grease	monitoring				in the r.Aspara in April 2011Y., and r.Kayindysay dated October 06, 2010Y.
14. Additional baseline monitoring may be required by location of major sources of potential water pollution (construction camps & other sources of significant run-off & liquid waste generation)	14.1 Additional baseline monitoring undertaken			V	Additional monitoring of natural waters didn't carry out in July 2013Y. Additional pollution sources of natural waters are absent.
15. Plan shall specify procedures for routine instrumented monitoring of WQ & run-off from construction camps, parking areas (equipment and transport) and labour camps, at least 1 time per month	15.1 Procedures specified in EMMP			V	Monitoring of domestic waste is not conducted. Household waste is removing by contract with private entrepreneur Dzhumasheva N.O.
16. Monitoring consists of analyses: suspended matter SS, BOD, DO, conductivity, faecal coliform, oil & grease.	16.1 Monitoring includes required parameters	V			Waste water monitoring carried out in July from sewage pond №1 – rotational camp.
17. Additional event-related monitoring may be requested by Engineer	17.1 Additional event-related monitoring wasn't request by Engineer			V	Engineer didn't require an additional monitoring.
18. Monitoring undertaken by third party organisations acceptable to Engineer	18.1 Engineer acceptance received	V			Monitoring is carried out by the testing laboratory Ltd. «KESO OTAN». Accreditation certificate №KZ.I.081065. Registered in the register of accreditation from 14.12.2010Y. and valid until 14.12.2015Y.
Specification Requirement	**Implementation Activity**	**Implementation**			**Comment / Verification / Proposed Action**
		Yes	**Part**	**No**	
Noise & Vibration Monitoring					
19. Pre-construction baseline monitoring of noise and vibration required at minimum of 2 sites including major settlements	19.1 Pre-construction monitoring executed	V			Measurements of noise and vibrations were conducted before the start of construction in September 2010. The protocol is provided in the monthly report for September 2010. from the construction of the road, from Crusher plant works in September 2011Y.
20. Additional baseline monitoring may be	20.1 An additional monitoring is	V			Engineer required an additional monitoring of noise and

required by Engineer	require				vibration near the mosque at the turn of road to Crushing Screening Plant and near the school in Kyzyl-Kishlak, which carry out since June2011Y. monthly. The monitoring was not executed in July 2012Y. such as the work completed at Crushing-screening plant, all materials are transported.
21. Routine instrumented required at minimum 2 locations including baseline monitoring sites	21.1 Routine monitoring undertaken	V			Requires are executed, in accordance with the engineer-ecologist DOHWA.
22. It is necessary to carry out Monitoring 1 time per month	22.1 Monitoring is carried out 1 time per month	V			Requirements are executed. Monitoring is carried out monthly.
23. Additional monitoring may be required during pile driving and blasting and otherwise as requested by Engineer	23.1 Additional monitoring undertaken	V			Noise and vibration monitoring is conducted since June 2011Y. Crushing Screening Plant dismantled, all the materials are transported from the Crusher, and there was no transportation in July.
24. Monitoring undertaken by third party organisations acceptable to Engineer	24.1 Engineer acceptance received	V			Monitoring is carried out by the testing laboratory Ltd. «KESO OTAN». Accreditation certificate №KZ.I.081065. Registered in the register of accreditation from 14.12.2010Y. and valid until 14.12.2015Y. There is no excess of Maximum permissible concentration.
Specification Requirement	**Implementation Activity**	**Implementation**			**Comment / Verification / Proposed Action**
		Yes	**Part**	**No**	
Community Relations					
25. EMMP shall specify proposed public information programs in advance of construction, notification procedures (mass media and signage) etc.	25.1 Program included in the plan EMMP			V	There was no the provision of information to the public in June.
Specification Requirement	**Implementation Activity**	**Implementation**			**Comment / Verification / Proposed Action**
		Yes	**Part**	**No**	
Fuel and Chemical Storage					
26. The basis for the storage of fuel & chemicals must be waterproof and the	26.1 Impervious bund and fencing	V			The tank for the temporary storage of fuel is established at the Concrete plant with capacity of 49m3. In accordance

storage must be enclosed by a fence	provided				with the working project, we received a new permission on emission №0001258 dated 28.04.2012Y. for cement unloading area and Concrete mixing plant including installed capacity. Capacity V-60m^3 installed in accordance with the project, received permission №0001458 dated November 01, 2012Y.
27. Storage located away from watercourse and wetlands	27.1 Appropriately located	V			Fuel storage is provided in the garage of the Concrete plant.
28. Bund base and walls impermeable	28.1 The level of impermeability is satisfactory	V			Fuel is stored in the garage area in the concrete plant in metal tanks.
29. Capacity of bunded 110% of the volume of tanks within bund	29.1 Pre-construction monitoring undertaken	V			Fuel is stored in the garage area in the concrete plant in metal tanks 49m^3 and 60m^3 which are installed in accordance with project, there is a calibration of capacity and passports.
30. Filling and refuelling strictly controlled & subject to formal procedures	30.1 Procedures developed and implemented	V			The refueling of transport carries out by fuel filling columns. The fuel filling columns operated in July.
31. Valves & trigger guns shall be resistant to unauthorised interference and vandalism and be turned off and securely locked when not in use	31.1 Valves and trigger guns comply with requirements.	V			Valves and trigger guns comply with requirements.
32. Contents of any tank or drum shall be clearly marked	32.1 Contents clearing marked	V			Developed the project of installation tankages for temporary of fuel storage at the Kyzyl-Say and Kenes, developed the project of EIA (Environmental Impact Assessment). The projects of EIA have sanitary and ecological conclusion, we received permission on emission №0001258 from 28.04.2012Y. for installation of II capacity V60m^3, developed working project and EIA project. Received Sanitary and ecological conclusion on the worker project and EIA project of II capacity No.124 dated 09.08.2012Y. and ZT-N-722 dated 12.09.2012Y. The application on emission is executed in October 10, 2012Y. Received permission on emission No.0001458 dated November 01, 2012Y.

33. Measures shall be taken to ensure that no contaminated discharges enter any drain or watercourses	33.1 Measures implemented	V			Fuel material refuels by fuel dispenser, no fuel leakage, the fuel does not fall into the sewage waters and and water reservoirs.
Specification Requirement	**Implementation Activity**	**Implementation**			**Comment / Verification / Proposed Action**
		Yes	**Part**	**No**	
Water Quality					
34. Contractor shall prevent any interference with supply or abstraction from supply or pollution of water resources including groundwater	34.1 Any unintended influence on the sources 34.2 Any pollutions surface or groundwater			V	There is not influence on water sources and underground water.
35. All water and other liquid waste products arising on sites shall be collected on or off the sites and in a manner that shall not cause nuisance or pollution	35.1 All liquid & other wastes collected 35.2 Manner of collection not causing pollution	V			Constructed local holding lagoon from reinforcement concrete to collect household sewage at the workers town and office, works are stopped at the Crushing screening unit, the equipment dismantled and removed.
36. Contractor shall not discharge or deposit any matter arising from execution of the Works into any water except with permission of Engineer and regulatory authority	36.1 Requirements are in progress	V			There are agreements on the export of wastewater with the sugar factory in Merke.
37. Contractor shall at all times ensure that all existing stream courses and drains within and adjacent to the Site are kept free from any debris and materials arising from the Works	37.1 Stream courses and drains are on site or adjacent to it are at a great distance from the debris	V			Stream sources and drains are at a great distance from the construction debris.
38. Contractor shall protect all watercourses, waterways, ditches, canals, drains, lakes and the like from pollution, silting, flooding or erosion as a result of the execution of the Works	38.1 All waterways protected	V			At the concrete plant was built well, has permission on special water use, head well enclosed within the sanitary protection zone, pavilion has installed above the headwall.
39. Contractor shall submit details of his temporary drainage system (including all surface channels, sediments traps, washing	39.1 Detailed information submitted to Engineer before construction start	V			Constructed local concreted holding lagoon to collect household sewage at the workers town which located near the concrete plant and office where it will flow waste water

basins and discharge pits) to the Engineer for approval prior to commencing work on its construction.					from showers, sanitary conveniences, and canteen. Waste water is removed by the contract to the filtration fields of sugar factory.
Specification Requirement	**Implementation Activity**	**Implementation**			**Comment / Verification / Proposed Action**
		Yes	**Part**	**No**	
Air Quality					
40. Open burning prohibited	40.1 Requirements are performed		V		There was no open burning in July.
41. Contractor shall utilise effective water sprays during delivery and handling of materials when dust likely to be created and to dampen stored materials during dry and windy weather	41.1 Water sprays utilized	V			Work is carried out at a great distance from the housing community, kindergartens, and hospitals. Permanently we water the roads which transport the materials, in actual fact the storage stayed only on km 357.
42. Stockpiles of materials shall be sited in sheltered areas or within hoarding, away from sensitive areas. Stockpiles of friable material shall be covered with clean tarpaulins, with application of sprayed water during dry and windy weather. Stockpiles of material shall be dampened prior to their movement, except where this is contrary to the Specification	42.1 Material stockpiles sited in remote areas from environmentally sensitive areas 42.2 Material stockpiles are not wetted till movement.			V	Storage areas are located at a great distance from the housing community, all materials are removed from the sites, the sites recultivated.
43. Any vehicle with an open load-carrying area used for transporting potentially dust producing material shall have properly fitting side and tail boards	43.1 Tailgate of automotive transport provided.	V			Requirements are observed.
44. Materials having potential to produce dust shall not be loaded to a level higher than the side and tail boards and shall be covered with a clean tarpaulin in good condition. Tarpaulin shall be properly secured and extend at least 300mm over the edges of the side and tail boards	44.1 Loads comply with loading requirement 44.2 Tarpaulins secured as per specification	V			Procedure is observed.

45. In periods of high wind, dust generating operations shall not be permitted within 200m of residential areas having regards to the prevailing direction of the wind	45.1 Operations comply with specification	V			Works carried out at a great distance from housing community, schools and hospitals.
46. Construction vehicles & machinery shall be kept in good working order and engines turned off when not in use.	46.1 Vehicles & Machinery kept in good working order 46.2 Engines turned off when not in use.	V			Permanent work is conducted in this direction, explanatory work, controlled by the security services, mechanics and safety engineers.
47. Appropriate measures shall be taken to limit exhaust emissions from construction vehicles emissions from construction vehicles, machinery & plant & contractor shall include details in EMMP	47.1 Measures taken to limit exhaust emissions	V			60 vehicles of subcontractors worked in July 2013Y. Own vehicle worked as transporting concrete mixes and lean concretes.
48. In residential or other sensitive areas such as nurseries and hospitals etc, advance warning shall be given to potentially affected persons, so that measures can be taken by them before commencement of works	48.1 Details included in EMMP 48.2 Assistance with mitigation measures provided to project affected people (PAP)	V			Road under construction is located far away from housing estates.
Specification Requirement	**Implementation Activity**	**Implementation**			**Comment / Verification / Proposed Action**
		Yes	**Part**	**No**	
Noise					
49. Contractor shall consider noise as an environmental constraint in the planning and execution of the Works	49.1 Noise considered as environmental constraint	V			Monthly monitoring of noise is conducted at the borders of Sanitary protection zone.
50. Contractor shall use plant and equipment conforming to international standards and directives on noise and vibration emissions	50.1 Plant and Equipment conforms with international standards	V			Equipment for the concrete manufacture is comply with a standard.
51. EMMP shall include details for abating noise at source as per sub-item 4.18 of Conditions of Contract	51.1 EMMP includes required details	V			Measures are accepted.

52. Contractor shall take all necessary measures to ensure that the operations of all mechanical equipment and construction processes on and off-site shall not cause unnecessary or excessive noise, taking into account applicable environmental requirements.	52.1 All necessary measures are accepted 52.2 Noise levels in accordance with applicable environmental requirements.	V			See point 50.1 The dislocation concrete plant and concrete crushing - screening unit are located away from settlements. Monthly measurements of noise and vibration are carried out at the borders of the sanitary protection zone. The exceeding of MPC is not observed in July 2013Y.
53. The Contractor shall use all necessary measures and maintain all plant and silencing equipment in good condition so as to minimise noise during Works	53.1 All necessary measures taken 53.2 Silencing equipment maintained in good condition	V			Measures are accepted, under construction route is far away from settlements.
54. When operating close to sensitive receptors such as residential, nursery, or medical facilities, the Contractor's hours of working shall be limited	54.1 Construction near the sensitive areas limited	V			Working equipment is located far away from housing community
Specification Requirement	**Implementation Activity**	**Implementation**			**Comment / Verification / Proposed Action**
		Yes	**Part**	**No**	
Earthworks					
55. Surplus excavation of topsoil shall wherever possible be used to reinstate borrow pits and quarries or other areas as may be approved by the Engineer	55.1 Surplus excavation and topsoil will be used to restore quarries. 55.2 The quarries restored in accordance with the approval of the Engineer.	V			At the present time, the topsoil transported from the temporarily reserved land and used for re-cultivation of quarries. The contract for the extraction of loam obtained from the Environmental Management №542 since 30.09.2011Y. The project of reclamation quarries is developed, now developed the EIA project by contract with KESO OTAN in the process of work on reclamation of soil quarries. At the present time the project EIA is undergone the sanitary and the ecological expertise, received permission for emissions in the process of work on recultivation of quarries №0001946 since 15.04.2013Y. The liquidation project of quarries developed in accordance with the legislation of RK, which got approval from all right-establishing authority. Technical stage started recultivation of quarries. The technical stage of recultivation is completed on the quarry Aspara 1 and Kuralas. The technical stage of

					recultivation is completed on the quarry Aspara 2.
56. Such materials shall be spread in such a manner as to limit subsequent erosion and shall be conducted measures for re-cultivation	56.1 These materials are distributed to prevent erosion	V			The measures are observable.
Specification Requirement	**Implementation Activity**	**Implementation**			**Comment / Verification / Proposed Action**
		Yes	**Part**	**No**	
Preservation of Antiquities					
57. Contractor shall take all necessary measures to protect any antiquities or archaeological finds as required by item 4.24 of Conditions of Contract	57.1 All necessary measures taken			V	There are no historical structures and archaeological finds on the reconstructed area.
58. Where antiquities are shown on the drawings or otherwise identified during the course of the Works, and protected by means of suitable fencing and barriers to the satisfaction of the Engineer.	58.1 Identified antiquities protected			V	There are no historic structures.
59. The Contractor shall provide and maintain access at all times for persons wishing to stop and pay their respects	59.1 Access maintained as required			V	There are no monuments on the reconstructed road at the site.
Specification Requirement	**Implementation Activity**	**Implementation**			**Comment / Verification / Proposed Action**
		Yes	**Part**	**No**	
Environmental Enhancement					

60. The Contractor shall remove all old tyres and internal tubes from within the Limits of Site, and subject to the agreement of adjacent landholders, from an additional area 75m either side of the road centre line	60.1 All removed from the site borders. 60.2 Landholder agreement obtained 60.3 Tyres removed in accordance with landholder agreements.			V	All removed from the site borders. Will be executed after completion of all construction works on the automobile road. Developed the waste passports on used oils, accumulators, tires agreed with the Ecological department in Zhambyl oblast. We deliver the waste lamps to LLP "Energy Taraz" by contract. There are contracts for the use of used tires and oil. Medical wastes are removed by the Contract.
61. Contractor shall dispose of all materials in a manner approved by the Engineer	61.1 Materials are removed with the approval of the Engineer			V	Materials are removed
62. When directed by the Engineer, the Contractor shall improve and reinstate the land on which informal roadside service areas have been established by removing all debris and contaminated soils regrading to natural ground levels, and re-establishing the natural vegetation.	62.1 Directive relating to land reinstatement received from Engineer 62.2 Debris removed and land reinstated as directed by Engineer			V	Works on recultivation of quarries are executed, the technical stage of recultivation is completed in Aspara 1, Kuralas, Aspara 2. The works in progress on the quarry Kurozek.
63. All debris and contaminated materials shall be disposed off site as approved by the Engineer.	63.1 Disposal as approved by Engineer 63.2 Management of lead contaminated soil.			V	Works are carried out, all the trash is cleaned daily along the road, at the construction site almost no materials.

Prepared by:.

Tel:

Department Head:

Tel:

Annex 3

Handed over and Acceptance Certificate for rehabilitated lands for temporary occupied for sub camps- KCC

АКТ

Приема передачи рекультивированных земель временно занимаемых под строительные площадки, расположенных в Меркенском районе Жамбылской области, связанных с реконструкцией участка 310,5-358,6 км автомобильной дороги «Алматы – Кордай – Благовещенка – Мерке – Ташкент - Термез»

Меркенский район 24 декабря 2013 года

Комиссия в составе:

Начальник отдела земельных отношений
Акимата Меркенского района – Р.Оспанкулов;

Районный инспектор Департамента экологии
по Жамбылской области – Т.Смагулов;

Аким Кенесского с/о- Н.Омиркулов

Маркшейдер ФАО «КСС
Проектирование и
строительство»- Ж.Калтаева

Произвела осмотр земельных участков, общей площадью 8,34га, представленных во временное краткосрочное землепользование Решением акима Кенесского сельского округа №1-02/26 от 17.11.10 и №1-02/6 от 09.06.2011 года для размещения площадок в количестве 2 штук общей площадью 8,34 га.

Комиссия составила настоящий акт о нижеследующем:

1. Филиал АО «КСС Проектирование и строительство» в Жамбылской области выполнили работы по рекультивации нарушенных земель по вышеуказанным площадкам временного краткосрочного землепользования с целью возврата земель первичным землепользователям в составе прежних угодий:
   - пастбища – 8,34 га;
2. Комиссии представлены следующие документы:
   - акты на право временного краткосрочного землепользования на вышеуказанные площадки согласно указанного перечня;
   - акты выполненных работ по рекультивации земельных участков;

№№ пп	Кадастровый номер	Площадь,га
1	06-092-066-682	6,0
2	06-092-066-683	2,34

3. В процессе рекультивации земель отклонений от норм не отмечено.

4. Заключение комиссии:

Работы по рекультивации временно занимаемых земель под объекты реконструкции автомобильной дороги «Алматы – Кордай – Благовещенка – Мерке – Ташкент - Термез» на участке 310,5-358,6 км в границах Меркенского района Жамбылской области выполнены в соответствии с нормативными, законодательными актами и правилами.
Комиссия считает, что рекультивированные земельные участки пригодны для дальнейшего использования в сельском хозяйстве в составе прежних угодий.

Рекультивированные участки земель для дальнейшего использования передаются прежним землепользователям Меркенского района.

_____ Р.Оспанкулов;

_____ Т.Смагулов;

_____ Н.Омиркулов

_____ Ж.Калтаева

2432

Annex 4

Permission of Emission on Quarry for Recultivation (KCC)

Серия Н

№ 0002132

КГУ "Управление природных ресурсов и регулирования природопользования акимата Жамбылской области"

(наименование органа, выдающего разрешение на эмиссии в окружающую среду)

РАЗРЕШЕНИЕ

на эмиссии в окружающую среду

АО " KCC Engineering & Contruction Co , Ltd" (Проектирование и строительство)
(наименование природопользователя)

Республика Корея, город Сеул, Сочо-гу, Чамвон-донг, 27-8
(индекс, почтовый адрес)

РНН (ИИН, БИН) **211500244868 (100441022734)**

Учетный номер природопользователя* _____

Наименование производственного объекта **Рекультивация карьеров**

Местонахождение производственного объекта **Меркенский район**

Соблюдать следующие условия природопользования:

1. Производить выбросы загрязняющих веществ в объемах (приложение 1), не превышающих:

в **2013** году **10,766** тонн;
в _____ году _____ тонн;
в _____ году _____ тонн;
в _____ году _____ тонн;
в _____ году _____ тонн.

2. Производить сбросы загрязняющих веществ в объемах (приложение 2), не превышающих:

в **2013** году **0,192** тонн;
в _____ году _____ тонн;
в _____ году _____ тонн;
в _____ году _____ тонн;
в _____ году _____ тонн.

3. Производить размещение отходов производства и потребления в объемах (приложение 3), не превышающих:

в **2013** году **-** тонн;
в _____ году _____ тонн;
в _____ году _____ тонн;
в _____ году _____ тонн;
в _____ году _____ тонн.

4. Производить размещение серы в объемах (приложение 4), не превышающих:

в **2013** году **-** тонн;
в _____ году _____ тонн;
в _____ году _____ тонн;
в _____ году _____ тонн;
в _____ году _____ тонн.

5. Выполнять согласованный план мероприятий по охране окружающей среды на период действия Разрешения.

6. Выполнять программу производственного экологического контроля на период действия Разрешения.

7. Условия природопользования согласно приложению 5 к настоящему Разрешению.

Срок действия Разрешения на эмиссии в окружающую среду с **01.08.2013** года по **31.12.2013** год.

Разрешение на эмиссии в окружающую среду действительно до изменения применяемых технологий и условий природопользования, указанных в настоящем Разрешении.

Приложения и программы, указанные в пунктах 5-7 настоящего Разрешения, являются неотъемлемой частью Разрешения.

Руководитель (уполномоченное лицо) _____ **Б.Амиргалиев**
(подпись) *(Фамилия, имя, отчество (отчество при наличии))*

М.П.

город Тараз Дата выдачи **01.08.2013**

Примечание: *Учетный номер природопользователя указывается в случае его присвоения.

Сериясы Н

№ 0001946

"Жамбыл облысы әкімдігінің табиғи ресурстар және табиғат пайдалануды реттеу басқармасы" КММ

(қоршаған ортаға эмиссияларға рұқсат беретін органның атауы)

Қоршаған ортаға эмиссияларға

РҰҚСАТ

"KCC Engineering & Construction Co, Ltd" АҚ (Жобалау және құрылыс)

(табиғат пайдаланушының атауы)

Корея Республикасы, Сеул қаласы, Сочо-Гу, Чамвон-донг, 27-8

(индексі, почталық мекенжайы)

СТН (ЖСН, БСН) **211500244868 (100441022734)**

Табиғат пайдаланушының есеп нөмірі* _____

Өндірістік объектінің атауы **Кеніштерді қайта қалпына келтіру**

Өндірістік объектінің орналасқан жері **Меркі ауданы**

Табиғат пайдаланудың мынадай шарттарын сақтау:

1. Ластаушы заттардың шығарындыларын мыналардан аспайтын көлемдерде (1-қосымша) жүргізу:

2013	жылы	**7,439**	тонна;
_____	жылы	_____	тонна;
_____	жылы	_____	тонна;
_____	жылы	_____	тонна;
_____	жылы	_____	тонна.

2. Ластаушы заттардың шығарындыларын мыналардан аспайтын көлемдерде (2-қосымша) жүргізу:

2013	жылы	**0,134**	тонна;
_____	жылы	_____	тонна;
_____	жылы	_____	тонна;
_____	жылы	_____	тонна;
_____	жылы	_____	тонна.

3. Өндіріс және тұтыныс қалдықтарын орналастыруды мыналардан аспайтын көлемдерде (3-қосымша) жүргізу:

2013	жылы	**-**	тонна;
_____	жылы	_____	тонна;
_____	жылы	_____	тонна;
_____	жылы	_____	тонна;
_____	жылы	_____	тонна.

4. Күкірт орналастыруды мыналардан аспайтын көлемдерде (4-қосымша) жүргізу:

2013	жылы	**-**	тонна;
_____	жылы	_____	тонна;
_____	жылы	_____	тонна;
_____	жылы	_____	тонна;
_____	жылы	_____	тонна.

5. Рұқсаттың қолданылу кезеңіне келісілген қоршаған ортаны қорғау жөніндегі іс-шаралар жоспарын орындау.

6. Рұқсаттың қолданылу кезеңіне өндірістік экологиялық бақылау бағдарламасын орындау.

7. Осы Рұқсатқа 5-қосымшаға сәйкес табиғат пайдалану шарттары.

Қоршаған ортаға эмиссияларға Рұқсаттың қолданылу мерзімі **15.04.2013**жылдан **31.07.2013**жылға дейін.

Қоршаған ортаға эмиссияларға Рұқсат қолданылатын технологиялар мен осы Рұқсатта көрсетілген табиғат пайдалану шарттары өзгергенге дейін қолданылады.

Осы Рұқсаттың 5-7 тармақтарында көрсетілген қосымшалар мен бағдарламалар Рұқсаттың ажырамас бөлігі болып табылады.

Басшы (уәкілетті тұлға) _____ **Б.Әмірғалиев**

(қолы) (тегі, аты, әкесінің аты (әкесінің аты болған жағдайда))

М.О.

Тараз қаласы Берілген күні **15.04.2013**

Ескертпе: *Табиғат пайдаланушының есеп нөмірі ол берілген жағдайда көрсетіледі.

Annex 5

Felling License for Vegetation Clearances (KCC)

Сериясы А
Серия
№ 012270

ҚАЗАҚСТАН РЕСПУБЛИКАСЫ

РЕСПУБЛИКА КАЗАХСТАН

Ауыл шаруашылығы министрлігі Орман және аң шаруашылығы комитеті төрағасының 2005 жылғы 4 сәуір № 93 бұйрығымен бекітілген

Вход№ 60
«27» 08 2010 г.

3

Мекемеде қалады
Остается в учреждении

АҒАШ КЕСУ БИЛЕТІ
ЛЕСОРУБОЧНЫЙ БИЛЕТ

«23» августа 2010 ж. г.

Облысы / Область: Жамбылская

Мекеме (орман иеленуші) / Учреждение (лесовладелец): ЖОО КАД МТК РК

Ағашты кесу тәсілі / Способ рубки: сплошная

Орманшылық / Лесничество:

Мемлекеттік орман кәсіпорыны санаты / Категория государственного лесного фонда: Защитные лесные полосы вдоль авто- дорог Алматы-Бишкек-Ташкент-Шымкент, Таразское 1 отд.

Пайдалану түрі / Вид пользования: промежуточное

Есепке алу тәсілі / Способ учета:

Негізінде / На основании: Реализация проекта реконструкции и строительства международного транспортного коридора «Западная Европа – Западный Китай» KCC Engineering and Construction

Рұқсат / Разрешается

200__ ж. кесілетін ағаш қоры есебінен кесуге / Вырубить в счет лесосечного фонда 200__г. ______ сүректер / древесины

Ағаштарды тартып шығаратын аралық / Расстояние вывозки

Орамдардың № / № кварталов	Телім № / № выдела	Кесpеағаштың № /ауданы, га / № лесосеки/площадь, га	Мөлдектердің №/ауданы, га / № делянок/площадь, га	Шаруашылық / Хозяйство	Жас ағаштардың сақталуы қажет / Обеспечить сохранение подроста: ауданда, га / на площади, га	1га саны (мың дана) / кол-во тыс. шт. на 1 га	Тығыздалған текше метрдегі ағаштың көлемі / Объем древесины в плотных куб. м: іскерлік / деловой	отындық / дровяной	шөпшектер мен бұтақтар / хвороста и сучьев	барлығы / итого	Теңге есебінде ставка бағасы / Стоимость по ставке в тенге: іскерлік / деловой	отындық / дровяной	шөпшектер мен бұтақтар / хвороста и сучьев	барлығы / итого	Төлеуге тиіс, теңге / Причитается к уплате, тенге
1кв.															
305-															
252		4,03		Вд			225			225	84?8			273910	273910
		9,22		Кол					0,8	0,8			1096	1257	125,7
															274041
					к уплате	1 этап уровень				-13,	вырод -11				
Барлығы / Итого															391886

Дайындалатын ағаш өнімдеріне төленетін ақыны бюджетке өткізу мерзімі
Сроки внесения в бюджет платы за заготавливаемую лесопродукцию

Кесуге жатпайды / Рубке не подлежат (тұқымдық ағаштар, тұқымдық жерлер және басқа ағаштардың саны/количество семенников, семенных куртин и других деревьев)

Ағаш дайындауды аяқтау мерзімі / Срок окончания заготовки «31» декабря 2010 ж. г.

Уақытша ағаш сақтайтын орын / Места временных складов

Тасып әкетуге рұқсат берілді / Вывозка разрешается

Тасып әкету мерзімі / Срок окончания вывозки «31» декабря 2010 ж. г.

Мезгілінен бұрын кесуге рұқсат етіледі
Досрочная вырубка разрешается

Ағаштың қабығын аршу немесе ағашты химиялық өңдеу мерзімі
Сроки окорки, химической обработки древесины

Кеспеағашты тазарту тәсілі
Способ очистки лесосеки

Ағаштарды бекітілген технологиялық картаға сәйкес қесу керек
Разработку лесосек произвести согласно утвержденным технологическим картам

Ерекше шарттар
Особые условия

Руководитель учреждения Каирбеков А. (тегі, аты-жөні, қолы/подпись, Ф.И.О.) Инженер / Инженер Куанбеков Б. (тегі, аты-жөні, қолы/подпись, Ф.И.О.)

Орман пайдаланушылар Қазақстан Республикасының ормандарында өсіп тұрған ағашты босату ережелерін және Қазақстан Республикасының ормандарында өрт қауіпсіздігі ережелерін міндетті түрде орындаулары тиісті. Көрсетілген ережелерді бұзғаны үшін, сондай-ақ ағаш пайдаланушы ағаш кесілген жерді тазартудан бас тартқан кезде, орман шаруашылығы мемлекеттік басқару органдары, белгіленген тәртіп бойынша, ағаш дайындауда және ағаш пайдаланушылар жүргізіп жатқан басқа да жұмыстарды тоқтатып қоюы мүмкін.

Лесопользователи обязаны строго соблюдать правила отпуска древесины на корню в лесах Республики Казахстан и правила пожарной безопасности в лесах Республики Казахстан. За нарушение указанных правил, а также при уклонении лесопользователя от очистки мест рубок, государственные органы управления лесным хозяйством могут в установленном порядке приостановить заготовку древесины и иные работы, проводимые лесопользователями.

Орманда өсіп тұрған ағаштарды босату ережелерімен және өрт қауіпсіздігі ережелерімен таныстым
С правилами отпуска древесины на корню и правилами пожарной безопасности ознакомлен

Орман пайдаланушы
Лесопользователь (лауазымы, қолы, тегі, аты-жөні/должность, подпись, Ф.И.О.)

Ағаштарды дайындау және шығып әкету мерзімдерінің ұзартылғаны жөніндегі белгілер
Отметки о представлении отсрочки по заготовке и вывозке

М.О.
М.П.

Мекеме басшысы
Руководитель учреждения (тегі, аты-жөні, қолы/подпись, Ф.И.О.)

Ағаш кесетін жерді куәландіру мәліметтері бойынша орманды қалпына келтіру шаралары
Мероприятия по восстановлению леса по материалам освидетельствования мест рубок

Орманның қалпына келуі үшін, жас ағаштарды сақтау
Сохранение подроста, обеспечивающего восстановление леса ______ га

Керек:
Требуется:

ағаш отырғызу
создание лесных культур на ______ га

ағаштың табиғи өсуіне көмектесу
содействие естественному возобновлению на ______ га

Мекеме басшысы

Расчет компенсации за снос зеленных насаждений филиал АО КСС (проектирование и строительство) в Жамбыльской области участок автодороги 310.5-358.6км «Алматы-Кордай-Благовещенск-Мерке-Ташкент-Термез

Утверждаю:

Руководитель проекта

филиала АО КСС

Джон Дже Хван

Согласовано:

Государственное учреждение «Меркенское Государственное Учреждение по охране лесов и животного мира акимиата Жамбыльской области»

директор ---------Буркитбаев К

Порода	Количество шт	Диаметр метр	Высота метр	Объем метр\м^3	Ставка	МРП	Ущерб тенге
Карагач	401	до 0,16	5	16.04	0,42	1413	9519.1
	542	до 0,24	6	92.14	0,42	1413	54681.41
	376	до 0,32	8	122.65	0,6	1413	103982.67
	177	свыше 0,32	9	93.81	0,6	1413	79532.12
Кустарник	1110	0.03	1	0.79	0.19	1413	212,1 247927,4
				К. удал. = К. рельефа	1,3 1,1		322305,62 354536,19

Расчет составила Е. Митрофанова.

Тґлем тапсырмасы/Платежное поручение №012

25-08-2010

(Жазылєан кїні / дата выписки)

Аќшаны жґнелтуші / Отправитель денег: **Ф-л АО "KCC Engineering & Construction Co. LTD."** СТН / РНН: **211500244868**	ЖСК / ИИК **KZ368560000003916690**	АЖК / КОд **17**	Сомасы / Сумма **354 536.19**
Аќшаны жґнелтуші банк / Банк отправителя денег: **АО "Банк ЦентрКредит"**	БСК / БИК **KCJBKZKX**		
Бенефициар / Бенефициар: **НУ по Меркенскому району** СТН / РНН: **210600002167**	ЖСК / ИИК **KZ24070105KSN0000000**	БеК / КБе **11**	
Бенефициардыѕ банкі / Банк бенефицара: **ГУ "Комитет казначейства Министерства финансов РК"**	БСК / БИК **KKMFKZ2A**		

Сомасы жазумен: **Їш жїз елу тґрт мыѕ бес жїз отыз алты теѕге 19 тиын**
Сумма прописью: **Триста пятьдесят четыре тысячи пятьсот тридцать шесть тенге 19 тиын**

Кезеѕ / Период: тауарды алєан (ќызмет кґрсетілген) кїн /дата получения товара (оказания услуг) "____" __________ ж./г.	Валюталау кїні / Дата валютирования	**25-08-2010**
Тґлем маќсаты / Назначение платежа:	Тґлем маќсатыныѕ коды / Код назначения платежа	**911**
Плата за лесные пользование, согласно расчета компенсации за снос зеленых насаждений. НДС не облагается.	Бюджеттік топтастыру коды / Код бюджетной классификации	**105304**

Басшы / Руководитель — Канг Х.Д.

М.О. / М.П.

Бас бухгалтер / Главный бухгалтер — не предусмотрен

алушы банк жїргізді / проведено банком-получателем

"25" августа 2010 ж./г.

"Банк ЦентрКредит" АЌ Тараз қ. филиалы филиала АО "Банк ЦентрКредит" в г. Шу РКО
БСК/БИК KCJBKZKX

Платежное поручение №013

01 сентября 2010 года

(дата выписки)

Отправитель денег: **Ф-л АО "КСС Engineering & Construction Co. LTD."** РНН: **211500244868**	ИИК KZ368560000003916690	КОд 17	Сумма **37 349.81**
Банк отправителя денег: **АО "Банк ЦентрКредит"**	БИК KCJBKZKX		
Бенефициар: **НУ по Меркенскому району** РНН: **210600002167**	ИИК KZ24070105KSN0000000	КБе 11	
Банк бенефицара: **ГУ "Комитет казначейства Министерства финансов РК"**	БИК KKMFKZ2A		
Сумма прописью: **Тридцать семь тысяч триста сорок девять тенге 81 тиын**			
Период: дата получения товара (оказания услуг) "_____" _____ г. Назначение платежа: **Плата за лесные пользования, согласно расчета компенсации за снос зеленых насаждений. НДС не облагается.**	Дата валютирования		**01-09-2010**
	Код назначения платежа		**911**
	Код бюджетной классификации		**105304**

Руководитель Канг Х.Д.

М.П. Главный бухгалтер

не предусмотрен

проведено банком-получателем

01 сентября 2010 г.

"Банк ЦентрКредит" АҚ Тараз қ. филиалы
Филиал АО "Банк ЦентрКредит" в г. Шу
РКО №4

БСК/БИК KCJBKZKX
КОД 732
СТТН/РНН 211500101604

1

Annex 6

Handed Over and Work Acceptance Certificate for rehabilitated lands temporary occupied for quarry of loam (Land Lot # 3) - KDS

ANNEX 6

Handover certificate

rehabilitated lands temporary occupied for quarry of loam "Land lot №3" situated at the boundaries of Merke rayon in Zhambyl oblast connected with reconstruction of the motor road "Almaty-Korday-Blagoveshenka-Merke-Tashkent-Termez" (road section km 358,6-389,4)

Merke rayon November 21,2012

Commission represented by:
Merke rayon Akimat
Head of Land Relations Department R. Ospankulov

Department for ecology of Zmabyl oblast
Regional inspector T. Smagulov

Zhambyl rural district
Akim M. Kokrekbaev

PF "Abdukarimov" A. Abdukarimova

ZB of "Kazakhdorstroy" LLP
Project Manager M.N. Kadyrov

conducted the survey of land lot for mining of loam, deposit "Land lot № 3" with total area 13,3 ha. and site of access road to the quarry with total area 2,67 ha. provided for temporary short-time land use by the order of Akim of Merke rayon of Zhambyl oblast № 529 dated 11.11.2011, resolution of Zhambyl rural district Akimat of Merke rayon of Zhambyl oblast № 106 dated 28.11.2011 and order of Zhambyl oblast Akimat № 122 dated 26.04.2012.

For location of:
-quarry of deposit "Land lot №3" with total area 13,3 ha.;
- access road with total area 2,67 ha.;

The commission made this certificate on the following:
1. ZB of "Kazakhdorstroy" LLP has performed works for rehabilitation of destructed lands for above-mentioned sites provided for temporary short-time land use in order to return the lands to their previous owners consisting of the original grounds:
1. plough land - 13,3 ha.;
2. pasture - 2,67 ha.;

2. The following documents were submitted:
- Order of Akim of Merke rayon of Zhambyl oblast № 529 dated 11.11.2011;

- Resolution of Zhambyl rural district Akimat of Merke rayon of Zhambyl oblast № 106 dated 28.11.2011;
- order of Zhambyl oblast Akimat № 122 dated 26.04.2012;
- Identification documents for land lots;
- Work acceptance Certificate for land rehabilitation;

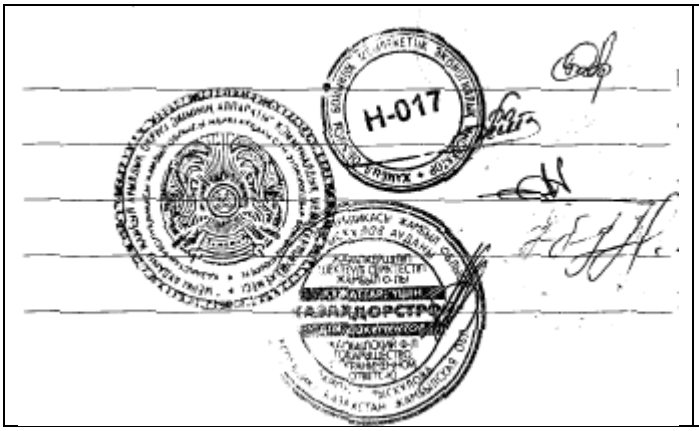
№ i/o	Cadastral №	Area, ha
1	06-092-020-116	13,97
2	06-092-022-311	2,0

3. There were no deviations from norms during the process of rehabilitation.
4. Conclusion of commission:

Works on rehabilitation of lands temporary occupied for quarry of loam "Land lot №3" and access road situated at the boundaries of Zhambyl rural district of Merke rayon in Zhambyl oblast connected with reconstruction of "Almaty-Korday-Blagoveshenka-Merke-Tashkent-Termez" motor road (road section km 358,6-389,4) were executed in compliance with normative, legislative norms and rules.

The commission considers that rehabilitated lands are suitable for subsequent agricultural use in the content of the previous lands.

Rehabilitated lands are handed over to the previous land users of Merke rayon.



R. Ospankulov

T. Smagulov

M. Kokrekbaev

A. Abdukarimova

M.N. Kadyrov

Contd. Annex 6

Work acceptance certificate

rehabilitated lands temporary occupied for quarry of loam "Land lot №3" situated at the boundaries of Merke rayon in Zhambyl oblast connected with reconstruction of the motor road "Almaty-Korday-Blagoveshenka-Merke-Tashkent-Termez" (road section km 358,6-389,4)

Merke rayon November 21,2012

Commission represented by:
Merke rayon Akimat
Head of Land Relations Department R. Ospankulov

Department for ecology of Zmabyl oblast
Regional inspector T. Smagulov

Zhambyl rural district
Akim M. Kokrekbaev

PF "Abdukarimov" A. Abdukarimova

ZB of "Kazakhdorstroy" LLP
Project Manager M.N. Kadyrov

observed the works performance for rehabilitation of lands temporary occupied for location of quarry of loam deposit "Land lot №3 and access road situated at the boundaries of Zhambyl rural district of Merke rayon in Zhambyl oblast connected with reconstruction of "Almaty-Korday-Blagoveshenka-Merke-Tashkent-Termez" motor road (road section km 358,6-389,4)

1. Mechanical and biological rehabilitation of temporary occupied land lots has been conducted without violations of normative, legal norms and requirements.
2. Temporary occupied land lots can be handed over to the original land owners.

	R. Ospankulov T. Smagulov M. Kokrekbaev A. Abdukarimova M.N. Kadyrov

Annex 7

Handed Over and Work Acceptance Certificate for rehabilitated lands temporary occupied for construction sites - KDS

Annex 7-1: Merke Rayon

Annex 7-2: Ryskulov Rayon

ANNEX 7-1

Handover certificate

rehabilitated lands temporary occupied for construction sites situated at the boundaries of Merke rayon in Zhambyl oblast connected with reconstruction of the motor road "Almaty-Korday-Blagoveshenka-Merke-Tashkent-Termez" (road section km 358,6-389,4)

Merke rayon November 21,2012

Commission represented by:

Merke rayon Akimat	
Head of Land Relations Department	R. Ospankulov
Department for ecology of Zmabyl oblast	
Regional inspector	T. Smagulov
T. Ryskulov rural district	
Akim	S. Yessenov
PF "Tylemys Batyr"	B. Zheksembiev
PF "Kuan and D"	D. Moldagulova
PF "Nart"	K. Nartova
PF "Kerymbai"	K. Beksultan
PF" Moldyr G"	A. Abdukarimov
PF "Toleget-Dat"	Zh. Seitov
"Arna" LLP	K. Burkitbaev
ZB of "Kazakhdorstroy" LLP	
Project Manager	M.N. Kadyrov

conducted the survey of land lots with total area 14,775 ha provided for temporary short-time land use by the order of Akim of Merke rayon of Zhambyl oblast № 363 dated 27.08.2010 for location of

-sites for accumulation in amount of 5 pcs with total area - 14,776 ha

The commission made this certificate on the following:

1. ZB of "Kazakhdorstroy" LLP has performed works for rehabilitation of destructed lands for above-mentioned sites provided for temporary short-time land use in order to return the lands to their previous owners consisting of the original grounds:

1. plough land - 9,96 ha;
2. pasture - 4,816 ha;

2. The following documents were submitted:

- acts for right of temporary short-term land use for above mentioned sites (copies) according to the specified list;
- Completion Certificate for land rehabilitation;

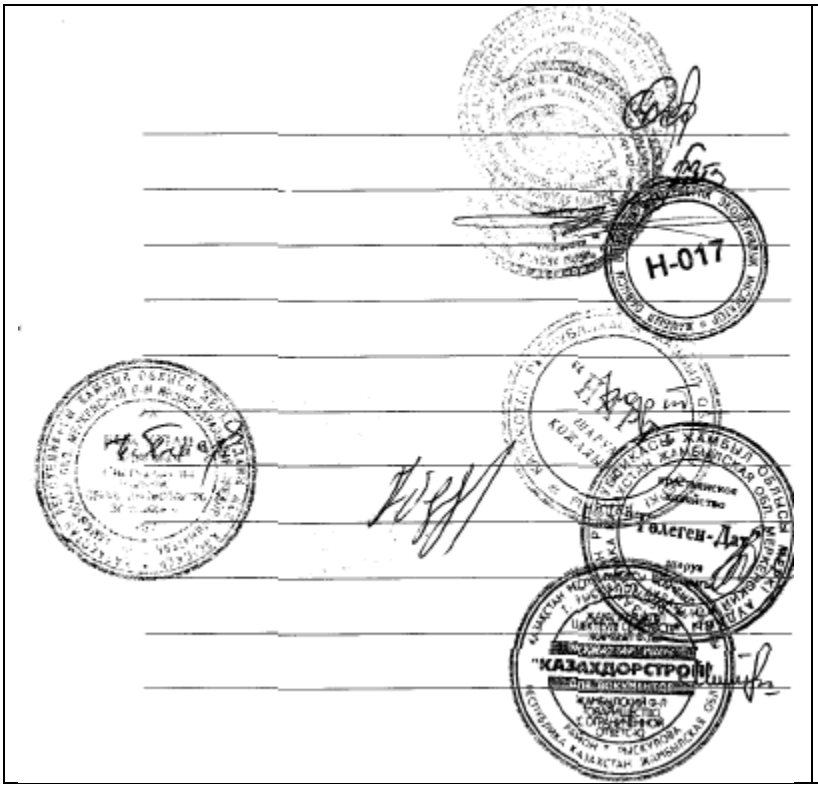
№ i/o	Cadastral №	Area, ha
1	06-092-092-015	3,01
2	06-092-017-092	3,01
3	06-092-022-295	3,1
4	06-092-022-296	3,006

5	06-092-027-235	2,65
	TOTAL:	14,776

3. There were no deviations from norms during the process of rehabilitation.
4. Conclusion of commission:

Works on rehabilitation of lands temporary occupied for construction objects of "Almaty-Korday-Blagoveshenka-Merke-Tashkent-Termez" motor road (road section km 358,6-389,4) at the boundaries of Merke rayon in Zhambyl oblast were executed in compliance with normative, legislative norms and rules. The commission considers that rehabilitated lands are suitable for subsequent agricultural use in the content of the previous lands.

Rehabilitated lands are handed over to the previous land users of Merke rayon.

	R. Ospankulov T. Smagulov S. Yessenov B. Zheksembiev D. Moldagulova K. Nartova K. Beksultan A. Abdukarimov Zh. Seitov K. Burkitbaev M.N. Kadyrov

Work acceptance certificate

rehabilitated lands temporary occupied for construction sites situated at the boundaries of Merke rayon in Zhambyl oblast connected with reconstruction of the motor road "Almaty-Korday-Blagoveshenka-Merke-Tashkent-Termez" (road section km 358,6-389,4)

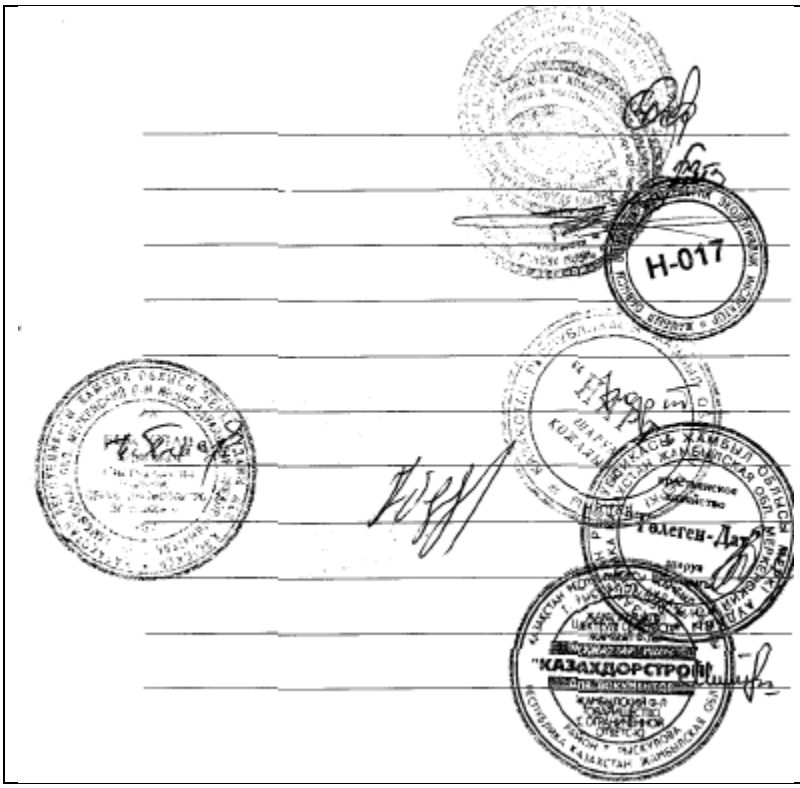
Merke rayon November 21,2012

Commission represented by:

Merke rayon Akimat	
Head of Land Relations Department	R. Ospankulov
Department for ecology of Zmabyl oblast	
Regional inspector	T. Smagulov
T. Ryskulov rural district	
Akim	S. Yessenov
PF "Tylemys Batyr"	B. Zheksembiev
PF "Kuan and D"	D. Moldagulova
PF "Nart"	K. Nartova
PF "Kerymbai"	K. Beksultan
PF" Moldyr G"	A. Abdukarimov
PF "Toleget-Dat"	Zh. Seitov
"Arna" LLP	K. Burkitbaev
ZB of "Kazakhdorstroy" LLP	
Project Manager	M.N. Kadyrov

observed the works performance for rehabilitation of lands temporary occupied for location of storage sites for reconstruction of "Almaty-Korday-Blagoveshenka-Merke-Tashkent-Termez" motor road (road section km 358,5-389,4) at the boundaries of Merke rayon in Zhambyl oblast.

1. Mechanical and biological rehabilitation of temporary occupied land lots has been conducted without violations of normative, legal norms and requirements.
2. Temporary occupied land lots can be handed over to the original land owners after expiration of lease terms.

	R. Ospankulov T. Smagulov S. Yessenov B. Zheksembiev D. Moldagulova K. Nartova K. Beksultan A. Abdukarimov Zh. Seitov K. Burkitbaev M.N. Kadyrov

ANNEX 7-2

Handover certificate

rehabilitated lands temporary occupied for construction sites situated at the boundaries of T. Ryskulov rayon in Zhambyl oblast connected with reconstruction of the motor road "Almaty-Korday-Blagoveshenka-Merke-Tashkent-Termez" (road section km 358,6-389,4)

T. Ryskulov rayon November 21,2012

Commission represented by:
T. Ryskulov rayon Akimat
Head of Land Relations Department B. Bashanov
Department for ecology of Zhambyl oblast
Regional inspector Zh. Mambetaliev
PF "Dulat" O. Niyazkulov
PF "Nurdaulet" N. Mustafaev

ZB of "Kazakhdorstroy" LLP
Project Manager M.N. Kadyrov

conducted the survey of land lots with total area 6,01 ha. provided for temporary short-time land use by the order of Akim of T. Ryskulov rayon of Zhambyl oblast № 373 dated 27.08.2010
for location of
-sites for stockpiling in amount of 5 pcs with total area - 6,01 ha

The commission made this certificate on the following:
1. ZB of "Kazakhdorstroy" LLP has performed the works for rehabilitation of destructed lands for above-mentioned sites provided for temporary short-time land use in order to return the lands to their previous owners consisting of the original grounds:
1. plough land - 3,0 ha;
2. pasture - 3,01 ha;

2. The following documents were submitted:
- acts for right of temporary short-term land use for above mentioned sites (copies) according to the specified list;
- Work acceptance Certificate for land rehabilitation;

№ i/o	Cadastral №	Area, ha
1	06-091-088-319	3,01
2	06-091-093-550	3,0
	TOTAL:	3,01

3. There were no deviations from norms during the process of rehabilitation.
4. Conclusion of commission:
Works on rehabilitation of lands temporary occupied for construction objects of "Almaty-Korday-Blagoveshenka-Merke-Tashkent-Termez" motor road (road section km 358,6-389,4) at the boundaries of T. Ryskulov rayon in Zhambyl oblast were executed in compliance with normative, legislative norms and rules. The commission considers that rehabilitated lands are suitable for subsequent agricultural use in the content of the previous lands.

Rehabilitated lands are handed over to the previous land users of T. Ryskulov rayon.

	B. Bashanov Zh. Mambetaliev O. Niyazkulov N. Mustafaev M.N. Kadyrov

Contd. Annex 7-2

Work acceptance certificate

rehabilitated lands temporary occupied for construction sites situated at the boundaries of T. Ryskulov rayon in Zhambyl oblast connected with reconstruction of the motor road "Almaty-Korday-Blagoveshenka-Merke-Tashkent-Termez" (road section km 358,6-389,4)

T. Ryskulov rayon November 21,2012

Commission represented by:

T. Ryskulov rayon Akimat	
Head of Land Relations Department	B. Bashanov
Department for ecology of Zhambyl oblast	
Regional inspector	Zh. Mambetaliev
PF "Dulat"	O. Niyazkulov
PF "Nurdaulet"	N. Mustafaev
ZB of "Kazakhdorstroy" LLP	
Project Manager	M.N. Kadyrov

observed the works performance for rehabilitation of lands temporary occupied for location of storage sites for reconstruction of "Almaty-Korday-Blagoveshenka-Merke-Tashkent-Termez" motor road (road section km 358,5-389,4) at the boundaries of t. Ryskulov rayon in Zhambyl oblast.

1. Mechanical and biological rehabilitation of temporary occupied land lots has been conducted without violations of normative, legal norms and requirements.
2. Temporary occupied land lots can be handed over to the original land owners after expiration of lease terms.

	B. Bashanov Zh. Mambetaliev O. Niyazkulov N. Mustafaev M.N. Kadyrov

Annex 8

Agreement with Insurance Company – KDS

Договор 5-9.

На дератизационные, дезинфекционные и дезинсекцию

с.Мерке от « 4. » 01 2012г.

Настоящий договор заключен ТОО «Меркенской Дезинфекцией» в лице Директора Зарипова М.С. действующего на основании Устава, именуемый в дальнейшем «Исполнитель» с одной стороны и Тайманов Г.К. - Менеджер проекта ТОО „Казахдорстрой П-2" именуемый вдальнейшем «Заказчик» с другой стороны заключили настоящий договор о нижеследующем;

В соответствии с настоящим договором «Исполнитель» проводит дезинфекционные работы в строгом соответствии с действующими нормативами и инструктивно-методическими документами, утвержденными Минздравом Республики Казахстан, перечень, объем, цена и сроки выполнения которых указаны в Приложении к настоящему договору, являющееся его неотъемлемой частью. Общая сумма работ согласно расценок определена в сумме

Сто восемьдесят тысяч тенге с учетом НДС

Порядок расчетов и санкции

1.1 Стоимость проводимых «Исполнителем» работ определяется по ценам, действующим в момент заключения договора, но подвергается корректировке с учетом изменения цен на дезсредства и услуги, сложившихся на момент производства работ. Об изменениях цен «Исполнитель» уведомляет «Заказчика» письменно (извещением).

1.2.Расчеты по выполненным объемам работ производятся «Заказчиком» до 10 числа, следующего месяца, в котором производилась работа. «Исполнитель» проводит необходимый объем профилактических дезинфекционных работ ежемесячно до 10-го числа текущего месяца. Оплата производится путем перечисления средств на расчетный счет исполнителя по факту выполнения работ и предоставления счет фактуры.

1.3. Просрочка платежей «Заказчиком» влечет за собой начисление пеней в размере 0,5 % от суммы счета за каждый день просрочки. В случае неуплаты задолженности до конца первого месяца текущего квартала влечет за собой приостановку договорных работ до поступления платежей на р/счет «Исполнителя».

1.4. За неисполнение договорных обязательств стороны подвергаются санкциям в соответствии с действующим законодательством РК.

3. Обязательства сторон.

«Исполнитель» обязуется:

3.1.Осуществлять санитарный надзор на договорных объектах по вопросам профилактической дезинфекции, дезинсекции и дератизации, давать Заказчику консультации и предложения по устранению имеющихся недостатков, влияющих на качество проводимых работ.

3.2.Согласовывать с «Заказчиком» графики проведения дезинфекционных работ.

3.3.При проведении договорных работ соблюдать нормы общественной безопасности.

3.4.Оказывать Заказчику платные услуги по вопросам профдезинфекции, не предусмотренные данным договором.

3.5. За несвоевременное выполнение работ «Исполнитель» уплачивает пеню в размере 0,5 % от суммы объема работ за один месяц.

«Заказчик» обязуется:

3.1. Выделить (постоянное) ответственное лицо, которое обязано присутствовать при проведении дезработы и оформлять в установленном порядке документы, предъявляемые работниками райдезстанции.

3.2. Обеспечить сохранность средств истребления грызунов и членистоногих, расставляемых на объектах.

с зам

СОГЛАСОВАНО
Главный врач Областного центра
по профилактике и борьбе со СПИДом
_____ К.К. Азахаев
_____ 2012год

УТВЕРЖДЕНО
Менеджер проекта Тараз-2
ЖФ ТОО «Казахдорстрой»
_____ Т.К.Тайжанов
_____ 2012 год

Протокол
проведения информационно-профилактического мероприятия согласно Плану профилактических и противоэпидемических мероприятий по профилактике ВИЧ-инфекции в Жамбылском филиале ТОО «Казахдорстрой» на 2012 год

Жамбылекая область
Меркенский район
с.Мерке 22.02.2012г.

Место проведения: с/о «Актоган», Вахтовый городок (мед. пункт)
Время проведения: с 12ч30мин. до 2ч30мин..

Язык проведения: Русский, Казахский

Наблюдатель:
Менеджер пректа Тараз-2 Жамбылекого филиала ТОО «Казахдорстрой» - Тайжанов Т.К.

Количество участников мероприятия: инженерно-технические работники и рабочий персонал Жамбылекого филиала ТОО «Казахдорстрой» Лот-2.

Тема мероприятия: «Об этом должен знать каждый». Постановление РК от 03.11.2011г. №1280. Правила медицинского обследования лиц по клиническим и эпидемиологическим показаниям на наличие ВИЧ-инфекций. Раскрыты основные проблемы, вопросы и понятия такие как: «Что такое СПИД». «Как люди заражаются ВИЧ?». «Какими путями ВИЧ может проникать в организм?». «Можно ли заразиться ВИЧ в быту, если избегать контактов с инфицированной кровью?». Сдача крови на выявление ВИЧ-инфекции.

Выступление мед.работника Отдела Охраны Труда и Техники Безопасности Уалиевой Л.Б.

По окончании выступления участниками были заданы вопросы по тематике СПИД.

По итогам мероприятия выдан раздаточный материал в количестве 150 копий и буклеты по тематике 150 соответственно.

Мероприятие организовали и провели: мед.работник Отдела охраны труда и техники безопасности Уалиева Л.Б., мед.работник областного центра по профилактике и борьбе со СПИДом Молдашева Б.Б., специалист Отдела охраны труда и техники безопасности Сейткадыр улы Н.

Специалист Отдела охраны труда
и техники безопасности Н.Сейткадыр улы

ТИПОВОЙ ДОГОВОР № _АОС/мер/Окзд/02/10

на оказание платных медицинских услуг в организациях государственной системы здравоохранения

с.Мерке «29» Февраль 2012 г.

Жамбылский филиал ТОО «Казахдорстрой» дальнейшем Заказчик, в лице директора Тайжанов Т.К, с одной стороны и Центральная районная больница Меркенского района Управления здравоохранения акимата Жамбылской области, именуемая в дальнейшем «Поставщик» в лице главного врача Джуманкулова Марата Сейтбековича, действующего на основании Устава

(Устава, Положения и т.п.)

с другой стороны, заключили настоящий договор (далее - Договор) о нижеследующем:

1.Предмет Договора

1.1. Поставщик оказывает платные медицинские услуги согласно приложения к Договору.

1.2. Заказчик осуществляет возмещение затрат Поставщику по тарифам согласно приложения к Договору.

2.Процедура взаиморасчетов за оказание платных медицинских услуг

2.1. Сумма Договора составляет 739 568 тиын (Семьсот триста девять тысяча пятьсот шесдесять восемь тенге 00 тиын)

2.2. Заказчик осуществляет оплату услуг Поставщика по фактически оказанному объему медицинской помощи, согласно счету, представленному Поставщиком.

Допускается авансирование Поставщика в размере не более 80% от общей суммы Договора в момент заключения Договора, выплата оставшейся суммы - по предоставлению счета, в момент выписки из стационара.

При необходимости допускается корректировка суммы Договора в процессе лечения с учетом фактически оказанного объема медицинской помощи, дополнительная сумма и способ ее оплаты согласовываются с пациентом и оформляются в виде дополнительного соглашения к договору.

Поставщик выдает Заказчику документ (фискальный чек, приходно-кассовый ордер), подтверждающий прием наличных денег.

В случае досрочного прекращения курса лечения Поставщик выплачивает Заказчику разницу между оплаченной суммой и фактической стоимостью оказанной медицинской помощи, за исключением случаев досрочной выписки ввиду нарушения больным установленного режима пребывания в стационаре.

3.Обязанности сторон

3.1. Поставщик обязан:

- Обеспечить оказание медицинских услуг в соответствии с периодическими протоколами диагностики и лечения заболеваний, при отсутствии протоколов по медицинским показаниям в соответствии с общепринятыми подходами;
- Принять все меры для обеспечения максимального уровня удовлетворенности пациентов результатами лечения;
- В случае отсутствия условий для оказания той или иной услуги в рамках проводимого лечения, организовать и оплатить оказание этой услуги в другой медицинской организации;
- Предоставлять Заказчику счет с указанием видов оказанных медицинских и сервисных услуг в установленные сроки;
- Предоставлять Заказчику всю необходимую медицинскую и финансовую документацию, необходимую для проведения проверки исполнения настоящего Договора.

3.2. Заказчик обязан:

- Выполнять врачебные предписания, соблюдать больничный режим, своевременно производить оплату за оказанную медицинскую помощь.

4.Права сторон

4.1. Заказчик имеет право:

- Выбора лечащего врача из числа работающих в плановом отделении (палате);
- На осуществление экспертизы качества проведенного лечения и обоснованности врачебных назначений.

4.2. Поставщик имеет право:

- На досрочное прекращение лечения в случае нарушения Заказчиком больничного режима и невыполнения врачебных предписаний.

5.Ответственность сторон

5.1. Поставщик несет ответственность:

- За допущенные случаи нарушения по оказанию платных медицинских услуг (оказание медицинских услуг ненадлежащего объема и качества, взимание двойной платы с граждан за услуги, входящие в гарантированный объем бесплатной медицинской помощи, взимание двойной платы за оказание одной и той же медицинской услуги: с пациента и бюджетных средств).

5.2. Заказчик несет ответственность:

- За несвоевременное возмещение затрат Поставщику за фактически оказанный объем медицинской помощи.

5.3.Нарушение условий Договора по оказанию медицинской помощи со стороны Поставщика может привести к аннулированию Договора и выплате Поставщиком неустойки в размере от суммы Договора.

Нарушение условий Договора по оказанию медицинской помощи со стороны Заказчика може привести к аннулированию Договора и выплате Заказчиком неустойки в размере от суммы Договора.

6.Изменение и расторжение Договора

6.1. Условия настоящего Договора могут быть изменены и дополнены по письменному соглашению сторон.

6.2. О намерении досрочного расторжения Договора стороны обязаны заблаговременно уведомить друг друга.

7.Заключительные положения

7.1. Ни одна из сторон не имеет право передавать свои обязательства по настоящему Договору третьей стороне без письменного согласия другой стороны.

7.2. Настоящий Договор составлен в двух экземплярах, имеющих одинаковую юридическ силу, один экземпляр находится у Заказчика, другой – у Поставщика.

7.3. Настоящий Договор вступает в силу со дня подписания его сторонами и действует до декабря 2012 г. исполнения всех обязательств сторон по настоящему Договору.

8.Адреса и реквизиты сторон:

Поставщик:
ГКП на ПХВ «Центральная районная больница Меркенского района управления здравоохранения акимат Жамбылской области
с. Мерке
РНН 210 600 000 45

БИК HSBKKZKX
ИИК KZ026010161000010530

Главный врач:
Джуманкулов М.С..

Заказчик:
Жамбылский филиал
ТОО «Казахдорстрой»
Меркенский р-н
с. Сарымолдаева
ул. Омарходжаева 2
РНН 210500214258
ИИК KZ459261301153453004
АО « Казкоммерцбанк»
БИК KZKOKZKX

Директор:
Тайжанов Т.К

3..3. Строго соблюдать меры общественной безопасности после проведенных работ.

3.4.Обеспечивать доступ во все помещения объекта и возможность проведения дезработ в них.

3.5. Обеспечивать работников «Исполнителя» инвентарем для приготовления рабочих дезинфекционных растворов и другими вспомогательными материалами.

3.6.Соблюдать правила эксплуатации зданий и сооружений, сбора, хранения и удаления бытовых отходов, складирования пищевых продуктов и промышленных товаров.

3.7. Выполнять предложения, сделанные «Исполнителем» по вопросам профдезинфекции, проводить своей рабочей силой и своими материалами ремонтные работы (заделку пор и щелей, устранять разрушения, окна и двери и др.)

3.8.В случае ликвидации, реорганизации или переименования, а также при изменении реквизитов «Заказчик» обязан уведомить письменно «Исполнителя» в десятидневный срок.

СРОК ДОГОВОРА И ПОРЯДОК ЕГО РАСТОРЖЕНИЯ

4.1. Настоящий договор заключен сроком на ....12.......................месяцев с..4.01.12...по..31.12....2012г. по согласию сторон,настоящий договор может быть пролонгировон.

ПРИЛОЖЕНИЕ К ДОГОВОРУ №.....12.......

От «.......4......».................................01...20.12г.

№	Наименование работ	Ед.изм.	Физ. площадь	Цена за ед.изм.	Сумма
1	Дератизация адм. кабинет офиса	м²	2,000	5,08 т	10,000
2	Дезинсекция адм. кабинет офиса	м²	2 000	7.53	[illegible]
3	адм каб. офиса Дезинфекция	м²	2.000	7,00	[illegible]
4	санузлы Обработка сну	мест	6	93.53	[illegible]
5.	Хлориров. водонап. бассейн.	м³	20	860	[illegible]
	Итого:				180000-00

ЮРИДИЧЕСКИЕ АДРЕСА И БАНКОВСКИЕ РЕКВИЗИТЫ

ТОО «МЕРКЕНСКАЯ ДЕЗИНФЕКЦИЯ»
Ул. Абая,№10. 2-12-51
ИТОГО
....
Подпись сторон
....
....
(Исполнитель)
МП

«ЗАКАЗЧИК»
ТОО „Каз дор офис"
Тел:...................................

(Заказчик)
МП