

Environmental Monitoring Report

November 2017

AZE: Second Road Network Development Investment Program, Project 1

Prepared by Azeravtoyol Open-Joint Stock Company for the Republic of Azerbaijan and the Asian Development Bank.

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REPUBLIC OF AZERBAIJAN

The Second Road Network Development Program, Tranche 1

**Project: Masalli to Jalilabad Intersection
Km 142+890 to km 110+700**



Final Environmental Monitoring Report

November 2017

ABBREVIATIONS

ADB	–	Asian Development Bank
EIA	–	Environmental Impact Assessment
EMP	–	Environmental Management Plan
EPM	–	Environmental Protection Manager
EPP	–	Environmental Protection Plan
EHS	–	Environmental, Health and Safety
GRM		Grievance Redress Mechanism
GFP	–	Grievance Focal Person
MENR		Ministry of Ecology and Natural Resources
PIU	–	Project Implementation Unit
PPE	–	Personal Protective Equipment
SSEMP	–	Site Specific Environmental Management Plan

WEIGHTS AND MEASURES

m	–	Metre
km	–	Kilometre

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1. INTRODUCTION

1.1. Background

1. The Final Environmental Monitoring Report was prepared for the Project Alat-Astara Motorway (M3), sections 3B & 3C that commences at the Jalilabad Interchange (Km 110+700 – the end of Section 3A) and runs in a generally southerly direction ending just South East of Masalli City (Km 142+800). It forms part of the important road connection from Baku to the Iranian border (at Astara).

2. The Executing Agency for the project is Azeravtoyol Open Joint Stock Company (Azeravtoyol). The Engineer appointed by Azeravtoyol was IRD Engineering. The construction contract for both Sections was Kolin Construction, Inc.

3. An Environmental Impact Assessment (EIA) was carried out for the project in 2007. The EIA report was approved by Azeravtoyol and ADB and served as a basis for the development of specifications in contract documents and for preparation of the Contractor's Site Specific Environmental Management Plans (SSEMP).

4. The purpose of the Final Environmental Monitoring Report is to provide an overview of the history of environmental management and monitoring throughout the project construction period, and to report on the status of final project-end activities such as site reinstatement.

5. Key milestones relating to mobilisation were summarised below:

- Overall Contract agreement: 912 days (30 Months) – 02 September 2016.
- The Engineer mobilised on the 14th January 2014.
- Contract Agreement: 11th December 2013.
- Notice to Commence was issued on the 5th March 2015.
- Compilation date 18 August 2017

1.2. Objectives of the Final Environmental Monitoring Reporting

6. This Final Environmental Monitoring was prepared by IRD Engineering with objective to inform Azeravtoyol and ADB and any other interested parties of the status of the envisaged environmental management measures. The report includes brief description of the project, an update on overall project progress, undertaken environmental management plans and monitoring activities, non-compliance notices and corrective actions, management of grievances, and findings of the post-construction environmental inspections undertaken during the construction period.

1.3. Methodology

7. The findings of the Report are based on:

- Review of the project related environmental monitoring documents and reports, including the EIA, EMP, the Contractors' Quarterly Environment reports, Health and Safety and (EHS) Reports, Grievance Registers; Reports on conducted trainings for staff and workers and community meetings; and the field and site inspection reports of the Engineer's EHS Manager;
- Notices and correspondences between the PIU, Engineer and the Contractor on environmental compliance issues,
- Analysis of information and observations from the site visits, including camp sites, borrow pits, road works observations, batching plant and other worksites,
- Meetings with the staff of the PIU, Engineer and the Contractor, as well as discussions with the construction workers during the site visits,
- Illustration of environmental compliance issues by photos taken during the site visits.

1.4. Project works progress

8. Table 1 shows the progress of project works as of today:

Table 1: Progress of the Project

Item	Progress (%)
Bridge Progress	100 %
Pipe Culvert Progress	100 %
Box Culvert Progress	100 %
Road Work Progress (removal of topsoil)	100 %
Road Work Progress (Embankment)	100 %
Road Work Progress (Capping)	100 %
Physical Progress	100 %
Financial Progress	100 %

1.5. Project works under the reporting period

9. Mainly post-construction works were carried out during the reporting period, such as:

- Guard-rails (type EDSP): 8,500 m;
- Guard-rails (type ESP): 14,000 m;
- Side fence: 30,988 m;
- T1 Earth channel: 1,500 m;
- Road painting 72,000 m;
- Road signs: 273 pcs;

- Delinators: 887 pcs;
- Cleaning of culverts 64 pcs;
- Planted trees (Interchanges D 19 and D29): 6100 pcs

1.6. Project organization and environmental management team

10. The Contractor's EHS team comprised of:

- a) EHS Manager – responsible for the overall management of HSE issues for the Contractor.
- b) EHS Officer –responsible for organisation of daily inspections, reporting, inspection of camp and plants areas, accident investigation, training arrangements, assistance in community meetings, make orders for Personal Protective Equipment (PPE) and other HSE provisions.
- c) EHS Inspector–daily inspections of site construction activities, project vehicles, conducting toolbox training, assist in training and community meeting. Coordination of flagman and reporting of unsafe conditions.

11. The Engineer's EHS team comprised:

- a) EHS Manager – responsible for weekly inspections of the Contractor's activities and reporting to the Team Leader.
- b) International Environmental Specialist – responsible for periodic site visits and preparation of bi-annual environmental reports on behalf of the Engineer.

1.7. Relationships of the Contractor, owners, lenders, etc.

12. The relationships between the Contractor, Engineer, Azeravtoyol and ADB were considered normal working relationships. Communications on environmental issues were carried out routinely. The Contractor, Engineer, Azeravtoyol OJSC and the ADB's environmental safeguard specialist had periodical meetings. Engineer's staff had regular site inspections.

13. The Engineer and the Contractor had communicated many issues also through telephone and emails. The Contractor regularly provided reports and the observed issues had been reflected in the previous bi-annual reports of the Engineer. During project implementation, ABD environmental specialists provided advice and conducted periodic monitoring, visited the sites and had discussions on the identified issues, clarifications on the necessary training for staff, documents keeping (checklists, grievances), and reports requirements of ADB. Communications of these parties included also issuance of non-compliance notices and corrective actions.

14. According to its contractual obligations, the Contractor prepared and submitted monthly and quarterly environmental and safety reports including the project progress, environmental management activities, results of regular site

inspections, grievances and conducted community meetings and training for personnel.

2. ENVIRONMENTAL MONITORING

2.1. Environmental Aspects for Management and Monitoring

15. According to the findings of the EIA and EMP, in summary, the environmental concerned during constructions which needed to be monitored and managed included the followings:

- (i) increased dust emission,
- (ii) odor emission and safety risks,
- (iii) water pollution due to spilled bitumen,
- (iv) loss of topsoil,
- (v) dust emission along routes to and from final disposal sites,
- (vi) air pollution due to exhaust emission from the operation of construction works and machinery,
- (vii) road safety and safety at worksites,
- (viii) disturbance of adjacent settlements due to vibration and elevated noise levels, and
- (ix) social and environmental grievances.

16. The implementation of the environmental monitoring was carried out through:

- a) Instrumental monitoring (measurements) of environmental quality parameters (water, air and noise) and impact of activities to the environment;
- b) Visual monitoring for compliance with the EMP;
- c) Documents and records.

2.2. Instrumental Environmental Monitoring

17. According to the SSEMP and the Contractors contract, the Contractor was responsible for instrumental monitoring of air quality and noise.

18. **Air Quality Monitoring** –Air quality monitoring was only required once per year. Air quality monitoring was carried out by the Contractor regularly as per SSEMP during the Construction period. No monitoring during current reporting period

19. **Noise Monitoring** – Regarding noise, the Contractor undertook yearly noise monitoring at the request of the Employer and after complaints from the public. No complaints from the public regarding noise were received in this reporting period nor any request for monitoring from the Employer. No monitoring during current reporting period.

20. **Water quality monitoring.** There was no contractual requirement for the Contractor to undertake instrumental water quality monitoring. There was however the obligation for regular visual inspections of site drainage for signs of pollution by the Contractor.

2.3. Visual Monitoring

21. Visual monitoring included mainly inspections of all sites and was carried out routinely. Azeravtoyol as an Executing Agency also had ad hoc visits to the sites. Following were visually monitored during the overall project implementation period.

- Camp site management (dormitories, canteen, septic tanks, rest areas and etc.)
- Waste management (including storage and disposal)
- Health and safety management (PPE and other site measures, fire fighting equipments)
- Storage, utilization and disposal of hazardous materials
- Traffic management (dust protection measures, trucks control: weight; haulage, washing and etc.)
- Overall visual inspection of water and soil pollution due to the leakages
- Maintenance of equipment and machinery (workshops and other supporting facilities)
- Maintenance of concrete and asphalt plant, crusher and fuel station

22. The Engineer's team discussed the observed environmental incompliance with the Contractor on the site and provided instructions for corrections. As needed, non-compliance notices were issued to the Contractor. No non-compliances were observed during the current reporting period.

2.4. Documents and records

23. The Engineer reviewed and approved the SSEMP prepared by the Contractor.

Table 2. The SSEMP of the Contractor

Document Ref #	Item	Status
MJ-HSE-002	Site environmental management plan	Approved 06.08.2014
MJ-HSE-005	Waste management plan	Approved 01.08.2014
MJ-HSE-007	Sewage management plan	Approved 19.08.2014
N/A	Health and safety plan and Accident Book	Approved 08.10.2014
MJ -HSE-004	Soil management plan(including topsoil and	Approved

	vegetation)	19.09.2014
MJ-HSE-0012	Site drainage plan	Approved 30.08.2014
MJ -MS-014	Method statement on spillages	Approved 30.08.2014
MJ -MS-013	Statement on location of fuel storage, filling station and vehicle washing site	Approved 30.08.2014
MJ-HSE-001	Traffic management plan	Approved 26.04.2014
MJ-HSE-0010	Noise control plan	Approved 25.08.2014
MJ-HSE-009	Air pollution control plan	Approved 23.08.2014
MJ-HSE-008	Dust control plan	Approved 16.09.2014
MJ-HSE-0011	Cultural/archaeological find plan	Approved 27.08.2014

24. Checklists on environmental, health and safety (EHS) were prepared for ongoing field monitoring and inspections by the EHS Managers of the Contractor and the Engineer.

25. The contractor kept all the environmental documents and records, including non-compliance notices from the Engineer and grievances from the residents and communities.

3. ENVIRONMENTAL MANAGEMENT

26. The environmental monitoring and management activities for the project were carried out according to the findings of the EIA and EMP that were prepared in compliance with the environmental safeguards requirements of the ADB Safeguard Policy Statement (2009), as well as legislation of the Republic of Azerbaijan.

3.1. Permits

27. The Contractor was responsible for obtaining and maintaining a number of environmental, health and safety permits at the early stages of the project. All the received permits had certain validity period. All the permits were renewed after expiration date. No permits were required or obtained during the current reporting period. .

3.2. Safety of Workers

28. At all construction sites under the Project:

- (i) Daily instructions on safety measures were conducted before the starting the works,
- (ii) Fire-extinguishing means were installed in dormitory and other places,
- (iii) The workers were provided with clean drinking water, hot water, clean kitchen and dining area,
- (iv) The first aid kits boxes and emergency contact information were available in the workers dormitory,
- (v) Personal Protective Equipment (PPE) were provided.

29. During the reporting period no any accidents and incidents were recorded. As well as there were no any non-compliances or non-conformance related to the safety of the workers during the reporting period.

3.3. Site Inspections

30. Under the reporting period, the Engineer conducted post-construction environmental inspections in accordance with the SSEMP in all areas of the completion of construction works. Total reinstatement of the Camp area is planned to be finalized at the end of January, 2018.(photo 12,13). The findings of the site inspections under the reporting period were summarised in Section 4 of this report (Post-construction sites inspections).

3.4. Non-Compliance Notices and Corrective Actions

31. No non-compliance issues were observed during the reporting period. Some smaller environmental issues such as small amount of debris/rubbish remained at the Site, idle operation of vehicles were observed which were corrected immediately in place. Total reinstatement of the Camp area is planned to be finalized at the end of January, 2018.

3.5. Training

32. During the reporting period, the Contractor proceeded to conduct EHS training sessions as outlined in Table 3 (list of participants and photos in Annex B).

Table 3: Training Sessions

Type of Training	Date	No. of Participants
Risks related to Snakes	29/07/2017	6 persons
First Aid Training	29/07/2017	11 persons

3.6. Grievances Management

33. A Grievance Redress Mechanism (GRM) was set up for the Project from the beginning. The Contractor assigned a Grievance Focal Point (GFP) staff to register complaints from affected persons and communities or other parties and facilitate resolving. The Contractor established 2 grievance registration locations in Masalli and Jalilabad districts. Information about how to submit complaints including phone numbers of Project's contact persons for grievances were disseminated in the project area among the communities and interested parties.

34. Representatives of the local authorities (municipalities) also received the complaints and requests of the residents and forwarded to the Contractor and Engineer, and in some cases directly to the Azeravtoyol. The relevant authorities and the Azeravtoyol addressed the complaints and provided responses to the complainant within 2 weeks. All issues were resolved quickly at the needed project sites .

35. Under the reporting period, no complaints were registered from the local communities or other parties. A note of appreciation was made from communities to the Contractor since reportedly the Contractor usually helped the communities with their requests on improving the local roads. A Grievance Register book with summary of documented grievances under the Project and how they were resolved is in Annex A .

3.7. Community Meetings

36. The Contractor had conducted Community meetings routinely, as reported in the previous Bi-annual Environmental Reports. In the reporting period, the Contractor held Community Meeting on 26 August with residents of the Seybetin village of Masalli district. 9 villagers participated in the meeting. In the Community meeting issues related to completion of the project were discussed. Approximate opening date of road has been informed to people. Also people were asked to raise their question or concerns regarding the project, in case if they have any additional request or non –conformity/disturbance. But there were no any issue raised and people expressed their gratitude. Participants list and photos are in Annex D.

3.8. Emerging Issues

37. Not identified.

4. POST-CONSTRUCTION SITES INSPECTIONS

38. The Engineer conducted post-construction environmental inspections in accordance with the SSEMP in all areas of the completion of construction works. Observations are in the table below (Photos in Annex E).

Table 4. Post-construction environmental site inspections

Inspection Date	Site/Comment	Corrective Actions	Responsible
15 Nov 2017	The Contractor's camp	The Contractor's camp was neat and tidy.	The Contractor (KC)
15 Nov 2017	Asphalt Batching Plant:	The Contractor still continues using the Asphalt Batching Plant for Jalilabad-Shorsulu Project.	The Contractor (KC)
15 Nov 2017	Stone Crusher:	The Contractor still continues using the Stone Crusher for Jalilabad-Shorsulu Project.	The Contractor (KC)

Table 5: Post construction Audit Checklist

N o.	Activity	Impacts	Final Mitigation Measures	Check	Measures Implemented
1	Project site rehabilitation	Change of land cover, erosion resulting from the construction activities	Adequate forming and scaping with drainage	✓	All RoW correctly formed and shaped. Drainage clear and operational
			Vegetation re-establishment(photo)	✓	Completed
2	Top soil management	Erosion of soil	Storing and managing removed topsoil for re-use for landscaping activities	✓	Topsoil was stockpiled and used in final reinstatement. Most stockpiles have been removed and areas restored,
3	Waste management	Waste accumulation, air and soil pollution	Collect and disposal all wastes including construction debris at designated location;	✓	Most areas are clean and free of solid and liquid wastes. Fencing was totally finalised
4	Noise and vibration, air management	Excessive noise and vibration due to new road	Noise to be monitored on a periodic basis and in response to any complaints.	✓	Road is operational. There have been no complaints.
5	Air management	Air quality deterioration due to new road	Air quality to be monitored on a periodic basis and in response to any complaints.	✓	Road is operational. There have been no complaints.
6	Traffic management	Hazards and safety issues related to traffic	Public access and access to the housing, shops, business and public activities	✓	Local roads and crossings are all open. Almost all diversions and temporary access roads were reinstated.
			Appropriate signage was installed	✓	Installation of signage completed
7	Road reinstatement	Road damages causing pollution, traffic disturbance and accidents	Streets with installed network reinstated to pre-construction or better conditions,	✓	Most local roads have been suitably repaired and are in good navigable condition.
8	Borrow sites and quarries	Land slide, soil erosion, change in riverbed and landscape, accidents	Borrow sites and quarries restored	✓	The borrow pits are shared with other contractors but even if when checking the borrow pits were in good manner
9	Existing Infrastructure facilities	Damage or disturbance to existing services (supply of electricity, water, gas, telecom etc.)	Reinstatement to pre-construction conditions or proper relocation, to be certified by the service companies	✓	All relocations have been successfully carried out
10	Camp site facilities	Residual pollution and disturbance to the localities	Field plants (asphalt ,crushing)have not been dismantled and removed.	x	The camp decommissioning finished except the Crushing Plant and Asphalt Plant. They were not removed because the Contractor still continues using them for the Jalilabad-Shorsulu Project.
			All temporary facilities removed and cleaned up	✓	
11	GRM	Unresolved complaints from Affected People	All grievances have been solved and AP's satisfied	✓	All grievances were satisfactorily resolved

5. CONCLUSIONS

39. In general, environmental management were satisfactory during the construction period. The Contractor put efforts to manage the compliance issues according to the SSEMPs and the most of the previous non-compliances notices were solved.

40. During the reporting period the most important task for the Contractor was related to post-construction works (to demobilise all its equipment and ensure that the camp site was reinstated without any significant pollution incidents or accidents). No pollution events occurred during this stage of the project and completion of construction works. Total reinstatement of the Camp area is planned to be finalized at the end of January, 2018

41. The Contractor still continues using the Asphalt Batching Plant and the Stone Crusher of Masalli Camp for Jalilabad-Shorsulu Project. From next reporting period Contractor of RNDP L3144 T2 will be responsible for the management of these plants and monitoring results will be provided under their respective reports.

42. Road safety signs were installed according to the project requirements.

43. The HSE team of the Contractor and Engineer addressed the issues and complaints of the residents. The Contractor undertook regular community consultations throughout the construction phase and satisfied complaints and requests of the communities.

44. The construction was completed and project closed, avoided harm to the environment, followed up inspections taken for restoration of borrow pits.

45. The Contractor complied the environmental safeguard requirements. ADB and the Engineer provided technical support to the Contractor as needed and followed up on full accomplishment of post-construction environmental management and cleaning works by the Contractor such as reinstatement of borrow pits and camp areas as per the findings of the post-construction inspections given in Section 4 of this report.

46. The major works such as embankments, bridges and asphaltting were all completed, final works such as line painting, installation of signage, fencing and clearing of the RoW were all finished.

47. All along the alignment, the Right of Way were smoothed, and compacted where necessary. The site was found to be clean and tidy, with no evidence of waste, equipment, or materials from the construction works, apart from areas where the final works were ongoing.

48. Culverts inspection were all clear and running, and vegetation was re-established itself on worked ground.

49. All stockpiles were used or removed. All along the alignment, the Right of Way were smoothed, and compacted where necessary. The site was found to be clean and tidy, with no evidence of waste, equipment, or materials from the construction works, apart from areas where the final works were ongoing.

50. The borrow pits were shared with other contractors. But even if when checking the borrow pits, they were in good manner.

51. The Contractor properly reinstated the site.

52. The camp decommissioning is ongoing; the crushing plant and the asphalt plant will not be removed because the Contractor still continues using them for Jalilabad-Shorsulu Project.

53. The camp was cleared to the satisfaction of the landowner prior to handover, but at the time of the final audit was still under use for the final works because the Contractor still continues using them for Jalilabad-Shorsulu Project by the approval of the landowner. Total reinstatement of the Camp area is planned to be finalized at the end of January, 2018

54. Those in the project area will soon no longer experience the construction-related environmental impacts that they have over the past years. It is expected that with the opening of these road, the project area will experience a general reduction in the environmental and social problems that were associated with the old road, and with the new road operational, economic development of the region is expected to accelerate.

55. Vegetation works were carried out along the road construction.

56. Tree planting

According to EIA and IEE requirements the Contractor prepared list trees. Planting locations were agreed with local municipalities and MENR. The Contractor passed tree planting to licensed subcontractor. The subcontractor planted 6100 different species of trees in total.

The Contractor filled all cracks and ensured growing of grass on the slopes.

The Employer monitored planting activities and check condition of trees regularly.

57. Construction waste were cleaned after completion of works. Total reinstatement of the Camp area is planned to be finalized at the end of January, 2018.

Annex A. Grievance Register List

#	Location	Date received	How received	Complainant	Description of the issues/complaint	Response of the Contractor	Status
1	Sharafa village	31 March 2017	Community Meeting	Jamalov Hojjat	We ask to put some gravel on right and left sides of edges (at point 0, where bridge edges connected to village road) of Bridge 25 in order to have an easy access to private land parcels.	This will be discussed with the project manager. The Kolin Construction will help people in Masalli as usual.	Done The Contractor sprayed some gravel material.
2	Samidkhan village	04 April 2017	Community Meeting	Mehdiyev Shaban	The rain water and groundwater collect on the right side of the beginning section of Samidkhan 1 area of the Masalli-Alishanli road. We ask for taking actions for flowing of this water to the nearby water canal.	This matter will be discussed with project authorities and we will inform you about the decision.	Done. The Contractor mobilised a tractor to excavate ditch.
3	Samidkhan village	04 April 2017	Community Meeting	Mehdiyev Shaban	The asphalt layer of the road between Brick Plant and village cemetery has been damaged. We ask for asphalt paving of this road.	The Contractor will repair the damaged roads at the end of the project.	Done
4	Samidkhan village	04 April 2017	Community Meeting	Mehdiyev Shaban	We ask for opening a carriageway for entering to the Motorway close to our village.	This matter will be discussed with project authorities and we will inform you about the decision.	Done
5	Chakhirli village	26 May 2017	Community Meeting	Abdullayev Fazil	As dry season is started we ask you to water our village road.	Watering will be performed on daily basis. The separate water truck is engaged for Chakhirli village.	Done.

6	Chakhirli village	26 May 2017	Community Meeting	Dadashov Maharram	We would like to know if our village road will be repaired or asphalted.	Repairing the pavement of the road in Chakhirli village will be done in June 2017. Also in front of the village school the Contractor will put 2 speed bumps to slow down the vehicles for safety reasons.	Done.
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Annex B. Community Meeting Photo and Participants List



Community Meeting Participants List

KOLIN CONSTRUCTION OF ALAT- ASTARA MOTORWAY MASALLI TO JALILABAD INTERSECTION
(KM 142+890 to KM 110+700)

İCMA GÖRÜŞÜ (Community Meeting)

KƏNDİN ADI (VILLAGE) : **Seybetin**
TARİX (DATE): **08/26/2017**

	ADI, SOYADI, ATASININ ADI Name, Surname, Father Name	TELEFON NÖMRƏSİ Phone Number	Şəxsiyyət vəsiqəsinin seria nömrəsi Seriya NO	İMZA Signature
1.	Dadaşov Səad	0506895949		
2.	Dadaşov Fəxrəli	0506845400		
3.	Dadaşov Rəşad	0504502499		
4.	Qasımov Rizo	0505271163		
5.	Vüqar Vəliyev	0508574442		
6.	Wamiq Fəxrəli	0506423556		
7.	Cabarov Valeh	0703046000		
8.	Cahangirov Məhərrəm	0504644443		
9.	Məhsinov Əli	0504918388		
10.				
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19.				

Annex C. Site post-construction photos

Photo 1. Cleanliness of the road sides from garbage/debris



Photo 2. Asphalt Batching Plant
(The Contractor still continues using the Asphalt Batching Plant for Jalilabad-Shorsulu Project.)



Photo 3. Stone Crusher Plant
(The Contractor still continues using the Stone Crusher Plant for Jalilabad-Shorsulu Project.)



Photo 4. Bridge on the Vilash river
(137+310 km)



Photo 5. Bridge on the Taxta river
(127+550)



Photo 6. The Fence
(Both sides of the Road fence were completed)



Photo 7. The animal crossing
(111+980 km)
(The construction of animal crossings were totally completed during construction)



Photo 8.The Box Culvert
(133+600)
(Box Culvert construction were totally completed during Construction)



Photo 9.Pipe Culvert
(Pipe Culvert construction were totally completed during Construction)



Photo 10.Tree Planting
Masalli Station junction
(123+850)



Photo 11.Tree Planting
Masalli junction
(136+560)



Photo 12.
Total reinstatement of the Camp area is planned to be finalized at the end of
January,2018



Photo 13.
Total reinstatement of the Camp area is planned to be finalized at the end of
January,2018

