



Bi-annual Environmental Monitoring Report

Project Number: 38236-02
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June 2011

Tajikistan: Dushanbe-Kyrgyz Border Road Rehabilitation Project, Phase II (Supplementary) (Financed by the Asian Development Fund Grant)

Prepared by the Ministry of Transport of Republic of Tajikistan

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I. Introduction

1. This project is part of a series of undertakings to complete rehabilitation of the important CAREC highway link from Dushanbe to the Kyrgyz border, and originally comprised;

- (i) New Section
 - a. rehabilitating the existing road section between Obigarm and Nurobod (km 95-140),
 - b. repairing the 7km emergency bypass road at km 110-112,
- (ii) Ancillary Works
 - a. improving the central section between Nurobod and Nimich (km 140-217), and
 - b. upgrading the border section at Karamyk.

2. During implementation the scope of work on above items (i) a. and (i) b. has changed to rehabilitating the existing road section from km 95-106 and upgrading the now 10km long emergency bypass road at km 106-112; meanwhile MOT is looking for financing sources for rehabilitating the remaining road section km 112 to 140.

3. The intention to upgrade the 9.0km border section at Karamyk, (ii) b. above, is currently under review due to major geological instability on the required alignment requiring further investigation and specialized treatment.

4. Project progress during the six (6) months between January 2011 and 30 June 2011 is summarized below:

- (i) (i)a. ICB Contract 1 awarded to China Road & Bridge Corporation (CRBC) commenced rehabilitation of the existing road from Obigarm km 95 to km 106, plus upgrading of a 7km section of the emergency bypass road on 12 July 2010. Work has been completed and Taken Over by the Employer on 22 December 2010. The 12 month Defects Notification Period is due to expire on 21 December 2011.
- (ii) (i)b. NCB Contract 2 awarded to Gayur Ltd for earthworks and drainage work to the remaining 3km of upgraded emergency bypass road commenced on 11 August 2010. Work is in progress with completion expected in August 2011. Overall progress to 30 June 2011 is assessed at 83%.
- (iii) (ii)a. Km140-150 pavement improvement by Sinohydro was completed in June 2010, and a culvert at Km169+166 was upgraded to a 2x2m concrete box culvert in October 2010. Remaining work to asphalt overlay Garm Centre Km180-181 is scheduled for completion in August 2011.

(iv) (ii)b. No work has commenced on the Karamyk section.

5. Project organization for the three awarded contracts listed above is tabulated below.

Contract	Employer	Contractor	Engineer
New Section (i)a., ICB Contract 1 km 95 to 140	Ministry of Transport	China Road & Bridge Corporation	Cardno Emerging Markets (Australia) Pty Ltd
New Section (i)b., NCB Contract 2 for By-pass		Gayur Ltd	
Ancillary Works (ii)a., Central Section		Sinohydro Corporation	Finnroad Ltd.

II. Environmental Monitoring

6. RRP Clause 36 confirms the additional works are classified category C, and are not environmentally sensitive, and says “Initial environmental examinations (IEEs) were prepared for Phase I (loan 2062-TAJ, new sections) and the original Project (ancillary works) and uploaded to the ADB’s website”.

(i) New Sections

- (a) Environmental Monitoring Reports only have been located for Phase I (loan 2062-TAJ). Water, air, soil and noise were monitored at specific locations between km22 and km95, but not near New Section Contracts 1 (km95-112) and 2 (km112 By-Pass).
- (b) ICB Contract 1 Monthly Reports include the contractor’s review of safety, public complaints, and environmental considerations of campsite, quarry, noise, air quality and asphalt waste management in accordance with the Contractor’s obligations under the FIDIC March 2006 Harmonized General Conditions of Contract (refer to summary in Annex A). No adverse environmental impact related to road rehabilitation and by-pass repair work has been noted or observed.
- (c) NCB Contract 2 General Conditions of Contract for Minor Works do not require the contractor to carry out environmental monitoring. One incidence of fly-rock damage to a nearby house in December 2010 required correction of the contractor’s rock blasting procedure, but otherwise no adverse environmental impact related to by-pass road repair work has been noted or observed.

- (ii) Ancillary Works
 - (a) For the Central Section, the Phase II (ADB Loan 2196-TAJ) Final Environmental Performance Report – June 2010 covered work carried out to “improve pavement km 140-150”.
 - (b) Reconstruction of the 2x2m concrete box culvert at km 169+166 was a local repair with minimal environmental impact.

III. Environmental Management

7. Environmental Management System (EMS), SSEMP and work plans. Report on delivery of documents, required amendments etc.
 - (i) New Section, Contract 1 – CRBC have submitted monthly statements describing their environmental monitoring activities up to ‘Taking-Over by the Employer’ (refer to summary in Annex A).
 - (ii) Ancillary Works, Central Section (km 140-217) - see Final Phase II Environmental Performance Report submitted by Finnroad in June 2010.

8. Site Inspections and audits – summarize the number and type of site visits
 - (i) New Section – Cardno supervision staff monitor site works daily, plus at least one visit per week by the Senior Highway Engineer.
 - (ii) Ancillary Works, Central Section (km 140-217) – refer to the Finnroad Final Phase II Environmental Performance Report of June 2010.

9. Non-compliance notices – summarize the details on the number of notices given out and the issues covered. Summarize the ranking of issues.
 - (i) New Section – No non-compliance notices have been issued to CRBC on Contract 1. The issue of fly-rock on Contract 2 was discussed and satisfactorily resolved with Gayur during the Monthly Meeting held on 22 December 2010.
 - (ii) Ancillary Works, Central Section (km 140-217) – refer to Section 6 of Finnroad Final Phase II Environmental Performance Report dated June 2010 for issues raised and addressed.

10. Corrective action plans - report on timeliness of preparation and completion. No corrective action plans have been raised.

11. Consultation and complaints – report on any consultation undertaken and list any complaints received. No complaints have been received.

IV. Other Safeguard Issues

12. Involuntary Resettlement:
 - (i) New Section - Km 95-112 existing road and bypass Contracts 1 & 2 are both within existing right-of-way and do not entail land acquisition or resettlement.
 - (ii) Ancillary Works (km 140-217) – resettlement issues have been dealt with under the original Phase II (loan 2196-TAJ) Project, see Land Acquisition and Resettlement Complaint, Due Diligence Report.

13. Indigenous People. No indigenous people are affected by this project.

14. Other Safeguards:
 - (i) New Section ICB Contract 1 includes FIDIC 2006 Harmonized Conditions of Contract obligations on gender discrimination, sexually transmitted diseases, child labor and site safety, and the contractor reports on these items in their monthly reports. Compliance with the requirements of the contract is monitored by the Supervision Consultant.
 - (ii) New Section NCB Contract 2 uses ADB's simplified contract form for small works, which does not include specific provisions on gender discrimination, sexually transmitted diseases, and child labor. However monitoring by the Supervision Consultant does not indicate any cause for concern on these items or on site safety.
 - (iii) Ancillary Works, Central Section Phase II (loan 2196-TAJ) civil works contract also includes FIDIC 2006 Harmonized Conditions of Contract obligations (see Final Social Assessment Report, July 2010).

ANNEX A: MONITORING DATA

1. New Section - Contract 1 awarded to China Road & Bridge Corporation (CRBC) for rehabilitating the existing road from Obigarm km95 to km107, plus repairing 7km of by-pass road.

2. The table below provides a summary of safeguard issues included in CRBC Monthly Reports for July to November 2010 prior to completion of the Works, plus Consultant assessment for December 2010 at which time the Works were Taken-Over by the Employer.

Month	Jul'10	Aug'10	Sep'10	Oct'10	Nov'10	Dec'10
Site Safety	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory
Camp	Maintained	Maintained	Maintained	Maintained	Maintained	Shut down
Quarry	Isolated and protected	Isolated and protected	Isolated and protected	Isolated and protected	Isolated and protected	Closed down
Noise	Checked	Checked	Checked	Checked	Checked	Work completed
Air Quality	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Work completed
Asphalt Waste	N/A	N/A	Disposal controlled	Disposal controlled	Disposal controlled	Work completed
Public Complaints	None	None	Irrigation channels maintained	Irrigation channels maintained	Irrigation channels maintained	None

3. The Construction work at the section was completed in December 2010 and the monitoring work was completed. A final monitoring report is due at end of Defects Notification Period in December 2011.

ANNEX B: Photos (NCB Contract 2)

Км 110+000



Км 110+100



Km 110+500



Km 110+800