



TACIS Regional 2000 TRACECA programme

Rehabilitation of Caucasian Highways Azerbaijan

*Segment 2 for Project Component II: Construction
Supervision of Ganja to Gasakh Highway and
Segment 4 of the Project Component II: Technical
Supervision of the TACIS Project-“Construction of two
bridges: Gasan Su and Shemkir Chay Bridges”*

June 2003 – Quarterly Progress Report



This project is funded by
The European Union



A project implemented by
Louis Berger SA Paris France



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**Rehabilitation of Caucasian Highways
Azerbaijan Georgia and Armenia**

EUROPEAID/113179/C/SV/MULTI



This Project is funded by the European Union

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Traceca Coordination Team
Baku

11 July 2003
Subject: Quarterly Progress Report

Attention Mr. M Graille

Dear Sirs,

With reference to above matter please find attached the Quarterly Progress Report
– June 2003 for your kind attention and consideration.

Yours Sincerely

S I Dotchev
LBSA Project Manager's Representative

B.2.2.3. Segment 2 for Project Component II: Construction supervision of the Ganja - Gazakh Road (World Bank Financed)

Part 1. - Contract CW – 2002-1 - Rehabilitation and upgrading of Ganja – Shemkir Road Section

General information
Project Data
Status of the Contract

Part 2. – Contracts CW 2003-1 to CW 2003-4 Rehabilitation and upgrading of Shamkir – Gazakh Road sections

Task series 2200

- Task 2201: Mobilization of Supervision Team
- Task 2202: Pre-Construction Advisory Service
- Task 2203: Administer the contracts as the “Engineer”
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 - 2204.3. Inspection and Approval of the Contractor’s Bonds, Guarantees and Insurance Policies
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Task 2212: Site Diaries
Task 2213: Project Cost Control – Measurement and Monthly Payment Certificates
Task 2214: Schedule Control
Task 2215: Maintenance of Traffic on the existing Road
Task 2216: Safety
Task 2217: Environmental Protection
Task 2218: Contract variations, Employer’s and Contractor’s changes
Task 2219: Examine and Recommend on Claims
Task 2220: As Build Drawings
Task 2221: Completion of the Works
Task 2222: Maintenance Assistance
Task 2223: Reporting for Segment II

B.2.2.5 Segment 4 of the Project Component II: Technical Supervision of the TACIS project: “Construction of two bridges: Gasan Su and Shemkir Chay”

General Information
Project Data
Status of the Contract

Task series 2400

Task 2401: Mobilization of the Bridge Design Engineer
Task 2402: Review of the Design and Tender/Contract Documents
Task 2403: Technical Meeting on the Reviewed Contract Documents
Task 2404: Provide the EU and Azeravtoyol with an overall performance schedule
Task 2405: Technical Supervision of the Contract
Task 2406: Inspection and Control
Task 2407: Issue Acceptance Certificates
Task 2408: Prepare Financial Documents
Task 2409: Prepare Reports on project Progress

Addendums

Quarterly and periodic Reports

Author – Project Manager’s Representative (RE) – S I Dotchev Pr.Eng.– segment manager for project segments 2 and 4 on construction supervision of Ganja Gazakh Road and two bridges under the TACIS project

B.2.2.3. Segment 2 for Project Component II: Construction supervision of the Ganja - Gazakh Road (World Bank Financed)

Part 1. - Contract CW – 2002-1 - Rehabilitation and upgrading of Ganja – Shemkir Road Section

General information

This section of the Project covers the supervision of the Rehabilitation and Upgrading of the Ganja-Shamkir section of the Azerbaijan Highway Project Contract CW 2002-1. The project is organised in the standard International format using the General Conditions of Contract as issued by the World Bank for projects under \$10,000,000. The works were designed in coordination with Azeravtoyol by a consortium composed of Kocks Consult GMBH (Germany) BCEOM (France) and Finroad Ltd (Finland). The supervision of the Works Contract forms part of the Rehabilitation of Caucasian Highways Azerbaijan Georgia and Armenia Contract Number EUROPEAID/113179/C/SV/MULTI and is carried out by Louis Berger SA of Paris France. The project is funded by means of a credit from the International Development Association (IDA), or the World Bank. A Project Implementation Unit attached to Azeravtoyol controls the project on behalf of the Employer. A list of the Key Personal is presented below.

Funding Agent

International Development Association
The World Bank
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Washington, DC 20433, USA

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S I DotchevActing Project Manager
Project Manager's Representative**Contractor**

Turan Hazinedaroglu Joint Venture

Z T Aksut

Project Manager

Project Data

Works Contract CW 2002-1	
Works Tender Opened	14 th May 2002
Contract Awarded Article 33.2	30 th December 2002 by IDA
Letter of Acceptance Issued 33.1	24 th March 2003
Contract Agreement Signed Article 33.3	April 9, 2003
Tender Amount	28,749,462,180.50 AZM
Contract Amount Article 15.3	29,903,403,179.00 AZM
Contract Start Date	21 st April 2003
Original Contract Completion Date	21 st July 2004
Extended Completion Date	Nil
Works Programme received	18 th April 2003
Last revision of Works programme	30 th April 2003
Value of Works to date	3,501,084,057.00 AZM
Variations	Nil
Advance Payment Received	5,980,680,936.00 AZM
Repayments made	0%
Delays	Nil
Claims	Nil
Time elapsed to date	71
Time remaining to date	387

Status of the Contract

Since start (April 21, 2003) the Contractor have been on site 71 days or 15.5% of the Contractual time and to date are remaining 387 days or 84.5% of the Contractual time to the Completion date (July 21, 2004)

Part 2. – Contracts CW 2003-1 to CW 2003-4 Rehabilitation and upgrading of Shamkir – Gazakh Road sections

Tenders not invited to date. However the PIU have prepare a time table schedule hereunder attached as addendum 1 and are busy implementing it.

The Client (Azeravtoyol/PIU) has been requested several time (verbally and with letter) to provide copy of the tender documents for the Projects well in advance to allow for proper review and comments on the tender to be lodge. To date no submission has been made.

Task series 2200

NOTE: The Information provided hereunder include insets segments of information under each task concerning the Technical Supervision of the TACIS Project (Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan) as well as. That information we believe is viable for the current status of our Service Contract and this Project but however is not required to be reported under the item B.2.2.5. Segment 4 of the Project Component II

Task 2201: Mobilization of Supervision Team

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan

To date the following staff has been mobilized:

- i) Project Manager's Representative (RE) – S I Dotchev
- ii) Assistant Resident Engineer (ARE) – K Mamedov
- iii) Surveyor (shared)– J Hasanov
- iv) Foundation Engineer –Local expert is located and his CV will be forwarded to Brussels beginning of July 2003. He will not be stationed on site but rather be call as the requirements arise.

The Mobilization for Supervision Team completed to date at 80%

Contract CW – 2002-1 - Rehabilitation and upgrading of Ganja – Shemkir Road Section

To date the following staff has been mobilized:

- i) Project Manager's Representative (RE) – S I Dotchev
- ii) Assistant Resident Engineer (ARE) – G Mehtiyev
- iii) Structural Engineer – A Hajiyev
- iv) Material Engineer (shared) – M Valiyev
- v) Surveyor (shared)– J Hasanov

Local experts for Quantity Surveyor and Safety/Environmental/ Material Engineer are located and their CV will be forwarded to Brussels beginning July 2003. The Mobilization for Supervision Team completed to date at 67%.

Updated schedule on local Senior Experts (base on the running Service Contract) with staff proposal to related inputs and outputs hereunder attached as addendum 2. Since that the

construction Works on section Shemkir – Gazakh is to be start middle of November 2003 and the estimated Contractual time for the Project is 18 months it's obvious that the Service Contract should be extended with about 6 months to facilitate the required Supervision during construction in accordance with the Contract documents.

The translator (Miss Shukurova) has been employ to facilitate Russian & English languages in the correspondence between the Contract parties and in addition an Office Assistant Manager (Miss E Tadjedinova) has been located and will be in our employ from July 1, 2003.

Task 2202: Pre-Construction Advisory Service

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan
We have been furnished (June 10, 2003) with copy of Performance and Advance payments bonds only after we have request them from the Contractor. The Works progress will be monitored closely by us and if required the Contractor will be ask in due time to extend his Performance Guarantee which is expire by Oct 24, 2004.

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section

- i) Notice of commence – Assistance have been render accordingly with the letter of acceptance to tender given on March 24, 2003 and the PIU have been advised on the Contract price in accordance with the Clause 15.3 – instructions to Bidders of the Bidding Documents. Further letter to start the Works (April 21, 2003) have been issue in accordance with the item 1.1 – Section V. Contract Data
- ii) Insurance – First submitted Insurance by the Contractor have been rejected base on insufficient insurance cover have been obtain and the Contractor have been asked and they submit new Insurance where the requirements of item 13.0 - Section V. Contract Data have been met. Only after that the Insurance have been accepted.
- iii) The performance and advance payments bonds have been review and PIU have been advise accordingly.
- iv) Possession of Site – Possession of site have been given to the Contractor on April 20, 2003 on a jointly site meeting where three parties (PIU, Contractor and Consultant) have been present
- v) Others (review Contractor's designs amendments, working drawings and etc) – Ongoing assistance in accordance with requirements set with Task 2002 from the Technical Proposal

Task 2203: Administer the contracts as the “Engineer”

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan
Project Engineer as defined in the Conditions of the Contract delegated his power to the Project Manager's Representative (RE) on March 10, 2003

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section
Project Engineer as defined in the Conditions of the Contract delegated his power to the Project Manager's Representative (RE) on April 1, 2003

Task 2204: Immediate Post – Mobilization Tasks

2204.1. Staff organization chart

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan

The Contractor is due to update his Works Programme and organization chart submit at the tender stage as soon as their proposed redesign has been approved. The approval of the last submitted redesign (June 18, 2003) is pending due to the approval of the local authorities “Gostroy” and the review of the expatriate expert from Louise Berger SA.

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section

The Contractor’s revised Work Programme and staff organization chart have been received April 30, 2003 and reviewed.

2204.2. Inspection of equipment and proposed materials

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan

- i) Materials for concrete - At the start of the project the Contractor have shown and visual inspection have been carry out on the Concrete Aggregates (commercial source) and the sand (commercial source) they intent to used in the concrete works. However detail laboratory test have been requested in accordance with in the Technical Specification and those test results are long due.
- ii) Concrete job mix - The Concrete job mix has been requested as well as in early March 2003 and not furnished yet. The Contractor on few occasions (verbally, by letters and Minutes of Meetings) has been informed that they can not start with concrete works before approval of the materials and the related concrete job mix design.
- iii) Materials to be purchase - The Contractor has been instructed to supply with required as per the project Specification certificates for whole lot of materials purchased and incorporated into the Works.

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section

- i) Concrete job mix - At the start of the project the Contractor has been asked and they produced the required as per the Contract Specification Concrete job mix (materials produced by Contractor’s crashing installation at Ali-Hajji-Mohamed section of the Road). The job mix has been reviewed and trial mixes produced. After the good results (28 days) have been obtained the job mix have been approved.
- ii) Plants - Contractor’s crusher, asphalt and base mix plants has been visually inspected at work at their present location (Ali-Hajji-Mohamed) project. Contractor is completing this Project by end of August 2003 and the plants will be moved and re-assemble on Shemkir site as soon as the needs arrived. In additional the Contractor verbally informed that they intend and did order a completely new asphalt plant (160 t/h). Delivery on site is expected September 2003.

- iii) Road building Machinery - Paving machines, earthwork equipment (graders, Rollers etc) have been visually inspected as well as.
- iv) Laboratory equipment - The Contractor is planning to have Full laboratory (earthworks, concrete and asphalt) to be employed on site. The earthwork new equipments are ordered and their delivery expected by the middle of July 2003. For the first few months the Contractor's intentions are to use the concrete and asphalt laboratory at Ali-Hajji-Mohamed project and to transfer that equipment to site.
- v) Materials to be purchased - The Contractor have been instructed to supply with required as per the project Specification certificates for whole lot of materials purchased and incorporated into the Works.

2204.3. Inspection and Approval of the Contractor's Bonds, Guarantees and Insurance Policies

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan
Work have been done – see Task 2202 above

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section
Work have been done – see Task 2202 above

2204.4. Establish Base indices for Variation of Price

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan
No variation of Price to date

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section
No variation of Price to date

2204.5. Issue the Order to Commence Works to the Contractors

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan
Work done

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section
Work have been done – see Task 2202 above

2204.6. Authorize Sub – Contracting Parts of the Works

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan
No official request has been submitted to date.

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section
The Contractor recorded intention during the May 2003 Progress Monthly Meeting to use a local experience subcontractor for the concrete works and the structures on site. However no official request has been submitted to date.

2204.7. Ambiguities / Discrepancies

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan

Our review shows that the original design calls for longitudinal centre line of Gasan Su Chay Bridge to be at lower elevation than the proposed Rehabilitated Road Section longitudinal centre line at this chainage. The Client authorities have been informed in time and decision has been taken and Contractor instructed to redesign and lift the Bridge deck (more than 2.8 m) in line with the Road longitudinal profile. Further ongoing review and assistance are given whenever required.

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section

- i) Coordinates and elevations - Our review shows that in the original design there were discrepancies with the coordinates and elevation with existing Government Bench marks and the existing road. The Client (Azeravtoyol) received our full report and after few negotiating meetings have instructed us (June 19, 2003) that the correction to the original design shall be done accordingly and shop drawings to be produced by the Contractor under project Manager's representative direct supervision. However the Client impose the following conditions:
 - a) The work shall be done with no extra cost to the Project
 - b) The estimated volumes of Works under the existing B & Q shall not be increase in any way
 - c) For the disturbance of the earth works the Contractor shall be compensated one off with one month extension of time with out additional cost involve
 - d) The Contractor is to waiving his rights under the Contract to claim any extra cost as a further compensation under this event.

- ii) Existing culverts structures – Our review shows that the existing culverts are in an extremely poor state. Thereafter comprehensive study has been conducted by our site staff and the results as follows:
 - a) Out of 64 culverts under consideration in this project 9 (or 14%) are new proposed structures
 - b) 5 (or 9%) of existing culverts are completely blocked and not operational
 - c) 30 (or 55%) of existing culverts are used at present as an irrigation water supply for the felts around the Road
 - d) The original design calls for replacement of only 4 culverts only
 - e) General poor state of the existing culverts structures have been noted and as a results replacement for the whole or a part of individual structure have to be replaced. Full report with comments and recommendations to the Client attention hereunder attached as addendum 3.

However in order to allow the Contractor to proceed further with their schedule of Works as planed they where instructed us matter of urgency to proceed with the works on two new culvert locations km 4+950 and km 6+150. Later on (June 5, 2003) Contractor has been instructed to proceed on other 36 or (65%) culvert locations with the rehabilitations works as designed. Never the less there are other 19 or (35%) culverts location where full or partial replacement of the structure is required.

Other potential problem have been highlighted to the Client and recorded that the existing B & Q did not provide for compensation of locals for closing the waters (30 or 55% of the culverts being used as a part of irrigation). Further the Client has been requested to appoint a person who shall on their behalf negotiate with locals any possible compensations events. Our Assistant resident Engineer Mr. Gunduz shall assist the Client with those issues.

Task 2205: Construction Supervision Manual

The full written Construction Supervision Manual is under preparation and is not provided yet. However the Project Manager's Representative bases on his own experience on other projects World wide introduce the few standard practices and procedures to be used by the Supervisory Team as follows:

- i) Responsibilities and authorities of each member of the Supervision Team
- ii) The Work Breakdown Structure
- iii) Correspondence Coding System
- iv) Formats for reports
- v) Meeting procedures
- vi) Procedures for issuing instruction to the Contractor
- vii) Record keeping requirements, including site diaries
- viii) Procedure for inspecting and approving work
- ix) Payment procedures
- x) Reporting requirements and formats

Task 2206: Document Control System

The system is being developing and shall be soon operational.

Task 2207: Design review by the Construction Supervision Team

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan

Ongoing task. To date Contractor made two completely new redesigns submissions as follows:

- i) First submission – The contractor submit for approval redesign where the Shemkir Chay Bridge have been extended from 66.6 m (3 spans by 22.2m) to 90 m (5 spans by 18 m) or 35% more from the original length.
However at Gasan Su Chay Bridge due to discrepancies longitudinally between the Road Project and the Bridge project, lift of the bridge deck were required and change from original design of (12 x 18 x 12) to (3 spans by 18m) have been done. The submission was rejected by the Client on the ground that the new redesign changes the Project completely (from pre - stress to ordinary reinforced beams) and thereafter the tender rules would not be applicable any longer. The Client instruct new redesign to be submitted (due to the luck of local pre-stress technology and know how into the country) for normal reinforce concrete bridges where Shemkir Chay Bridge spans scheme remains unchanged and Gasan Su Chay bridge has been lift to accommodate the Rehabilitated and upgraded Road design section and Contractor's proposed scheme has been adapted.

- ii) Second Submission – Base on Client instructions the Contractor submit his last redesign at June 18, 2003. The design review is ongoing and not completed yet. However the build ability of the proposed at Shemkir Chay bridge is under question since the Contractor has to explain in his method statement of casting - an in situ cross beam of total height 900 mm and width 1000 mm which has to be cast longitudinally between the precast beams (21.2m) at the position of the supports over the piers. Placement of the elastic bearings under beams as well as. There are other few queries the Contractor has been furnish (June 25, 2003) with and his answers are expected as soon as beginning of next month.

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section

Ongoing task.

- i) The design surveyor data - The original surveyor design data have been review and serious discrepancies have been recorded. More info has been supply already at task 2204.7(i) as above.
- ii) Existing Culverts - The existing drainage structures have been review (more info at task 2204.7(ii) and recommendations (extra min U\$150,000.00 or less than 2.5% to a max U\$300,000.00 or just about 5% of the Contract price to the Project estimated cost) have been lodge with the Client. To date no concrete instructions have been received back never the less that few negotiating meetings have been taken place and the Client stated that would like to see the Work done with in the existing budget in the B & Q.

Contract CW – 2003 – 1 to CW – 2003 – 4 – Rehabilitation and upgrading of Shemkir – Gazakh Road Section

The Client (Azeravtoyol/PIU) has been requested several time (verbally and with a letter June 20, 2003) to provide copy of the tender documents for the Project well in advance to allow for proper review and comments on the tender to be lodge. To date no submission has been made.

Task 2208: Monitor Survey and Setting – out of the Works

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan

Ongoing task. The design bench marks been checked and corrections are required. New Bench Marks will be in place as soon as the Client (PIU) shall be able to produce requested by us info (June 19, 2003) about two additional governments Bench marks.

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section

Ongoing task. The design bench marks have been checked and serious discrepancies have been established (our letters 4 dated June 9, 2003 and 5 dated June 19, 2003). Presently the new Bench Marks are allocated along the existing Road and existing ground levels are taken in order to produce the requested by the Client corrected longitudinal profile shop drawings.

Task 2209: Review of Contractor’s quality Assurance plan

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan

To date the Contractor did not submit his quality assurance plan yet.

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section

To date the Contractor did not submit his quality assurance plan yet.

Task 2210: Design and Specification Changes

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan

Since that the redesign has been under review the Contractor has been instructed to furnish us as soon as possible with the appropriate SNIP standards and codes used in the new design. Further clarification has been requested and Contractor instructed to provide pay items where required under the new proposed B&Q, during the meeting June 20, 2003

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section

The Contractor recorded their intention to redesign the only one new bridge (single reinforced concrete slab 15x15x0.9) to be built with the available in the country local standards technology know-how and practice. Full report send to World Bank representative – Mr. Talvitie, here under attached as addendum 4. To date such submission is not received yet.

Task 2211: Meetings and Records

Ongoing task.

- i) Short info exchange, intense/effective daily Meetings with Team Leader, Project Manager are norm
- ii) Short info exchange and contract advise, intense/effective daily Meetings with the representatives from PIU are norm
- iii) Short info exchange and contract advise provided on daily Meetings with representative from Azeravtoyol as required
- iv) Weekly and monthly intermediate meeting with the Contractor's representatives are conducted as required.
- v) Monthly Progress Meetings are conducted at the end of each month.
- vi) Meetings with the funding agency – (representative of World Bank) as required

Task 2212: Site Diaries

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan

Ongoing task. Site diary form used on the project - hereunder attached as addendum 5

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section

Ongoing task. Site diary form used on the Project - hereunder attached as addendum 6

Task 2213: Project Cost Control – Measurement and Monthly Payment Certificates

Ongoing task.

Task 2214: Schedule Control

Ongoing task.

Task 2215: Maintenance of Traffic on the existing Road

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan

Ongoing task. No detours might required since that the new bridge structures and access Roads are constructed parallel to the existing ones, however the maintenance of existing road is required in order to keep the traffic flow.

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section

Ongoing task. The Contractor intention is to close part of the Road (first 12 km) and to relocate the traffic to the existing old access road to Shemkir. The closure has been negotiated with the locals and Republic traffic road authority/police department and existing road traffic have been diverted (June 23, 2003) The Contractor start maintaining the old access Road to Shemkir.

Task 2216: Safety

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan

Ongoing task. Safety on site is a prime concern and several instructions have been given to the Contractor on this issue. However the Contractor is slow on implementing the instructions. On last intermediate Progress Meeting (June 20, 2003), the Contractor have been instructed to obey the instruction as soon as they are given.

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section

Ongoing task. The Contractor has been given general instruction to comply with the safety instructions.

Task 2217: Environmental Protection

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan

Ongoing task. The Contractor has been brief on the matter. However Contractor advised that will use commercial source for the concrete aggregates. As soon as the Borrow pits for Access Road constructions are required the Contractor shall submit the environmental protection plan as requested.

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section

Ongoing task.

The Contractor have been brief on the matter and instructed to basic environmental protection rules and techniques. At present they are developing a borrow area (collecting natural gravel for producing crushed concrete and asphalt aggregates) with in the river bed of Shemkir Chay river in accordance with the requirements set by the Project Specification.

Task 2218: Contract variations, Employer's and Contractor's changes

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan

Ongoing task. In the Contractor's last redesign submission and the applicable B&Q submitted along, the Contingency item is Nil and the Contractor claimed that they include whole lots of variations and extra works might the project required and they do not expect any other extra work to be done. However the Contractor have been requested (June 20, 2003) to submit written explanation for rearrangements with in the B&Q undertaken by them self and written statement that the project budgeted cost shall not be increased.

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section

Ongoing task.

- i) Design surveyor data – The acting Project Manager/ Team Leader to issue a Variation order base on the decision taken during the Meeting (Client, Consultant, Contractor – July 19, 2003) and Client's letter 576 dated June 19, 2003. Variation order to be issued beginning of July 2003
- ii) Existing culverts structures - The Client (Azeravtoyol) on few occasions (daily meetings with PIU and Azeravtoyol and letters) have been made familiar and advised for the problems with part of existing culverts structures (see task 2204.7(ii) and task 2207) and the consequences they are facing if the decision on the issue have not been taken soon. The Client decision is pending. However the World Bank representatives during their last visit June 2003 have been brief on the matter as well as.

Task 2219: Examine and Recommend on Claims

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan

Ongoing task. Request for extension of time with out additional cost have been lodge by the Contractor - letter 697 dated June 17, 2003 on the ground that the first redesign have been rejected by the Client (EC). However not official claim have been submitted to date yet.

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section

Ongoing task. Request for extension of a month time (see task 2204.7(i) (d))–waiving his rights under the Contract to claim any extra cost to the Project under this issue have been requested by the Contractor.

Task 2220: As Build Drawings

The progress of Works is not at that stage as yet.

Task 2221: Completion of the Works

The progress of Works is not at that stage as yet.

Task 2222: Maintenance Assistance

The progress of Works is not at that stage as yet.

Task 2223: Reporting for Segment II

Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan
Ongoing task. This is the first quarterly periodic reports.

Contract CW – 2002-1- Rehabilitation and upgrading of Ganja – Shemkir Road Section
Ongoing task. This is the first quarterly periodic reports

B.2.2.5 Segment 4 of the Project Component II: Technical Supervision of the TACIS project: "Construction of two bridges: Gasan Su and Shemkir Chay"

General Information

The scope of this project is the construction of two bridges – Gasan Su Chay and Shemkir Chay on the Ganja to Gazakh road.

At each bridge site, there is the remains of a project that was aborted. The existing Shemkir Chay Bridge (chainage 382+690) is a structure of 3 spans – bridge length 67.88 m – bridge width 8.5 m. The aborted bridge structure is located to the North and downstream of the existing bridge. The new bridge over Shemkir Chay River will be located upstream on the proposed second carriageway of the road. The design bridge is 3 spans, Reinforced Concrete Bridge, with 11.50 m carriageway with and 1.00 m. width walkways. Span scheme of the designed bridge is 3 x 22.2 meters

The existing Gasan Su Chay Bridge (chainage 447+650) is a structure of total length 37.94 m. and the width of the old bridge is 8.5 m. The aborted bridge structure is downstream and partially will be utilized into the construction of the bridge. The design bridge over Gasan Su Chay will be located downstream on the proposed second carriageway of the road. The designed bridge is a 3 span, Reinforced Concrete Bridge, with carriageway width equal to 11.5 meters and 1.00-meter width walkways. Span scheme of the designed bridge is 12 + 18 + 12 meter.

Funding Agent	European Commission
Employer	The Contracting authority is the– The TACIS Inter-State programme in conjunction with the TRACECA
Beneficiary and Employer for technical matters	Azerbaijan republic Ministry of Transport "Yolnegliyatservis" Department address: Prospect Tbilisi 10/54 The Ministry of Transport Tel:99412 930192 Fax:99412 315655
Mr. Cavid Gurbanov Gamber	Chief of the Department
EUROPEAID EC Brussels	
Mr. E Dalamangas	Project Manager
Service Supervision Contractor	
K Zukhurov S I Dotchev	Acting Project Manager Project Manager's Representative
Contractor	
S Shirinov	Azerkorpu Joint Venture Site Agent

Project Data

Works Contract Euroaid/112944/C/W/AZ	
Works Tender Opened	
Contract Awarded	27 th December 2002
Contract Agreement Signed	27 th December 2002
Tender Amount	€1,424,017.80
Contract Amount	€1,424,017.80
Contract Start Date	10 th March 2003
Contract Completion Date	4 th November 2003
Works Programme received	No
Planned Works to date	Mobilisation 50%
Works complete to date	Mobilisation 50%
Value of Works to date	€0.00
Variations revised bridge design at Contractors cost	Nil
Advance Payment Received	€142,401.78
Repayments made	0%
Delays	Work not start yet
Claims	Letter of intention – extension of time
Time elapsed to date	116 days
Time remaining	122 days

Status of the Contract

Since start (March 10, 2003) the Contractor have been on site 116 days or 48.7 % of the Contractual time and to date are remaining 122 days or 51.3% of the Contractual time to the Completion date (November 4, 2003)

Task series 2400

Task 2401: Mobilization of the Bridge Design Engineer

The Mobilization of the Bridge Design Engineer has been done as soon as Project developments did required. Miss Eleni Kritikou our expatriate expert has been deployed from April 30, 2003 to May 14, 2003. She has intense schedule of Work and she meet and have few productive meetings with Contractor's Representatives and RE present on several occasions. She has review the design and has produced in time her project Specific recommendations and the Contractor in his last redesign implement whole lot of those comments. However the latest Contractor's redesign has been send to her (DHL) with whole lot of SNIP standards sketches specification for review and comments. Her latest comments (June 24, 2003) have been passed to the Contractor's representative and the Contractor has been given time to respond by Monday 30, 2003.

Task 2402: Review of the Design and Tender/Contract Documents

The Bridge Design engineer reviewed the Contract documents and the local available practice and expertise. However the review did show that the original design calls for pre-stressed concrete beams, superstructure bridge deck and such technology is simply not available into

the country. Importing the technology and know-how for the purpose of building those two bridges is not visible solution. There after decisions have been proposed and accepted by the Client (EC) that those bridges shall be build in accordance with the existing local technology know-how and practice and thereafter simple reinforced beams bridges shall be build. The Contractor reproduced new redesign implementing those requirements. That design is under the review at present.

Task 2403: Technical Meeting on the Reviewed Contract Documents

Meetings have been held as required and PIU are ware of the design problems and our recommendations and solution proposed.

Task 2404: Provide the EU and Azeravtoyol with an overall performance schedule

Since that the Contractor does not have in hand approved drawings yet, the Contract probably shall required extension of time with no extra cost to the Project as requested by them.

Task 2405: Technical Supervision of the Contract

Ongoing task. The project is closely monitored and whole lots of problems issues are reported immediately and efficiently to the party concern.

Task 2406: Inspection and Control

Ongoing task. The Contractor has been instructed and is aware of the inspections procedure and control required for execution of the Works in accordance with the Project Specification. They are aware that no Work shall be paid unless properly inspected and approved.

Task 2407: Issue Acceptance Certificates

Ongoing task. Certificates shall be issued as Progress demanded.

Task 2408: Prepare Financial Documents

Ongoing task. Interim Payment certificates shall be issued as soon as the Works start. The last revised and updated Bill of Quantity shall be adapted for that purpose. As soon as the last Contractor's redesign has been approve and the applicable B & Q approved the Client (EC) shall be furnish with copy in order to follow the monthly payments.

Task 2409: Prepare Reports on project Progress

Ongoing task. To date the whole lots of Minutes of Intermediate and Monthly Progress Meetings held with the Contractor have been issued to the Client's attention via our Paris office. The letter correspondence have been send as well as.

Addendums

- 1. Time table schedule (PIU) for tenders under the Contracts CW 2003-1 to CW 2003-4**
- 2. Updated schedule on local Senior Experts with staff proposal to related inputs and outputs.**
- 3. State of the existing culverts structures - Full report with comments and recommendations to the Client attention**
- 4. Full report to World Bank on the Contractor's intention to redesign the only one new concrete reinforced bridge in the Project.**
- 5. Daily Work Register form for Contract 027-531 – Construction of Gasan Su and Shemkir Chay Bridges in Azerbaijan**
- 6. Daily Work Register form for Contract CW-2002-1 – Rehabilitation and upgrading of Ganja – Shemkir Road Section.**

Addendum 1.

**“Rehabilitation and Upgrading of Shemkir –Qazax Road” Project
Time Sheet of the Tender based on the Lots CW 2003-1, CW 2003-2, CW 2003-3, CW
2003-4.**

	Works Done to date	Dates
1	The agreement of Tender’s documents with the W.B	Till 30 th June 2003
2	Setting up the Tender’s Commission	Till 30 th of June 2003
3	Tenders’ statement in the local and foreign newspapers	
4	The distribution of the statements to the embassies	1 st July 2003
5	Selling of Tender’s document to the Claimants	2 nd July 2003
6	The latest date of the submitting by the Claimants the Tender’s Proposals to the Corporation	2 nd July 2003
7	Investigating the Tender’s Proposals, the agreement of The Estimate Calculation with W.B. and M.C. with a period (60 days)	20 th of August 2003
8	The signing of the Contractor’s Contract. 28 day later after record.	Till 18 th November

Item	Month name	F	M	A	M	J	J	A	S	O	N	D	2003	Extra	J	F	M	A	M	J	J	A	S	O	N	D	2004	Extra	J	F	M	A	M	J	J	A	2005	Sum	Extra				
Item	Month name	1	2	3	4	5	6	7	8	9	10	11			12	13	14	15	16	17	18	19	20	21	22	23		24	25	26	27	28	29	30	31								
	Last tender - section Shemkir - Gazakh											1			2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18											
	In a month	28	31	30	31	30	31	31	30	31	30	31	334		31	29	31	30	31	30	31	30	31	31	30	31	30	31	366	31	28	31	30	31								151	851
	With out Saturdays	23	26	26	27	25	27	26	26	27	25	27	285		27	24	27	26	27	26	27	26	27	26	26	26	27	315	26	24	27	26	26								129	729	
	Org																																										
	Pro																																										
Component 2. Segment 1. Review of Design and Tender Documents																																											
1'	Assistant Resident Engineer	22	32																																								
2	CAD Engineer	15	0																																								
3	Highway Engineer	10	0																																								
4	Pavement Engineer	10	0																																								
5'	Geotechnical Engineer	10	20						20																																		
6'	Bridge Engineer	10	20						20																																		
7'	Surveyor	10	20						20																																		
8	Safety Engineer	10	0																																								
Segment 2: Construction Supervision of the Ganja - Gazakh Road																																											
1	Assistant Resident Engineer	440	440			12	25	0	21	26	27	25	27	163	0	24	27	26	27	26	27	26	26	26	26	14	277	26	24	27	26	26								129	569	129	
2	Soils-material Engineer	440	440			7	7	26	26	27	25	27	145	0	27	4	27	26	27	26	27	26	26	26	26	27	295	26	24	27	26	26								129	569	129	
3	Pavement (structural) Engineer	440	440			7	7	26	26	27	25	27	145	0	27	4	27	26	27	26	27	26	26	26	26	27	295	26	24	27	26	26								129	569	129	
4	Soils-material Engineer	440	440							26	26	27	25	27	131	0	24	27	26	27	26	27	26	26	26	21	309	26	24	27	26	26								129	569	129	
5'	Surveyor	340	440			12	25	27	26	26	27	25	0	168	0	27	0	27	26	27	26	27	26	7	26	26	27	272	26	24	27	26	26								129	569	129
6	Bridge Engineer from (4)	100	0																																								
7'	Soils-material Engineer	110	440							26	26	27	25	27	131	0	24	27	26	27	26	27	26	26	26	27	309	26	24	27	26	26								129	569	129	
8	Environmental Engineer	110	0																																								
Segment 3: Assistance to the PIU																																											
Segment 4: Technical Supervision of the TACIS Project - construction of two bridges																																											
1'	Assistant Resident Engineer	340	440			12	25	27	26	26	27	25	0	168	0	27	24	0	26	27	26	27	26	26	10	26	27	272	26	24	27	26	26								129	569	129
2	Material Engineer	220	0																																								
3	Soils-material Engineer	44	44							22	22		44	0																													
4	Surveyor from (2)	100	0																																								
New proposal																																											
Note	Position S2(5)+S4(4)	5'	440																																								
	Position S2(6)+S4(1)	1'	440																																								
	Position S2(7)+(8)+S4(2)	7'	440																																								
	Position S1(1)+(3)	1'	32																																								
	Position S1(4)+(5)	5'	20																																								
	Position S1(2)+(7)	7'	20																																								
	Position S1(6)+(8)	6'	20																																								

Addendum 3



Louis Berger S.A.
Mercure III 55 Bis quai de Grenelle
75015 Paris



**Rehabilitation of Caucasian Highways
Azerbaijan Georgia and Armenia**

EUROPEAID/113179/C/SV/MULTI

TRACECA

This Project is funded by the World Bank.

To
"Azeravtoyol" SC
Acting President Mr. A. A. Ahmedov
Baku
Tel: + 994 12 932763
Fax: + 994 12 985586

From
From: Louis Berger – Azerbaijan
72/4 Uzeir Gadjibekov STR.
370010 Baku
Azerbaijan

June 4, 2003

Reference PS277/CW2002-1/SD/CC1-003

For the attention Mr. A. A. Ahmedov

Dear Sir,

CW 2002-1 Ganja Shemkir Road Section
Drainage - Culverts

With reference to above matter and further to the discussions held at the Monthly Progress Meeting held on May 30, 2003 at the site, we would like to inform you that the full comprehensive study has been conducted by our site supervisory staff (Mr. G. Mehtiyev and Mr. K. Mamedov) on the culverts requiring rehabilitation under this project. The results of this study are presented hereunder under the attached sketches (handled over to Mr. A. Gojayev on June 2, 2003) and the summary list. Further we would like to record and comment as follows:

- i) Out of 64 culverts mentioned into the Project drawings (E25), 9 (or 14.0%) are new proposed culverts and thereafter excluding from the study.
 - ii) 5 (or 9.0 %) of the culverts are completely blocked with soil and were not checked, but only mark as silted.
 - iii) 30 (or 55.0 %) of the culverts are used at present as an irrigation water supply and water is running permanently through the structures
 - iv) The design calls for 4 (or 7.0 %) culverts required to be replaced.
- Please note that 1 of the proposed culverts (km 12+993) to be replaced is in fact new structure in the same Project Schedule of Works.
 - On chainage (km 2+370) the same Schedule calls for replacement of the middle part (cast concrete 5 x 3.25) only and ignore the fact that the rest of the culvert structure is configuration of culverts units with size (3 x 1 x 2.5) from the inlet and (2 x 1 x 2)

on the outlet side. However for the whole structure the proposed configuration of culverts units is 2000 x 2000 only.

- Bill of Quantities did not provide rates as follows:
 - For removing the existing structures whenever replacements are required. That work can be paid under day works rates or the Contractor might be asked to produce new rate for our approval
 - For laying 1000 mm concrete pipe which we might require.

The study revealed that the existing culverts structures are in extremely poor condition and mostly they required replacement for the whole or a part of the structure. Most common defects showing are that the culverts units are displaced badly to the point that they no longer form continuous geometrical line where the water is suppose to run. The joints between the units are open and twisted and soil and water seepages are common throughout. The water proofing (if any) is badly damaged or not existing. Some of the structures are constructed by different type and size units including long parts of cast in situ concrete, longitudinally and proposed by the project design rehabilitation is inadequate for proper rehabilitation in line with sound engineering practice. We might guess the reasons for that bad displacement of the culverts units but the first come to mind is that the existing foundations (if any) are not sound and the running waters through the years of use have been taken there toll and the foundations are not existing any longer or badly damaged beyond any sound engineering repair.

In our opinion the proposed rehabilitation of the existing structures has not been based on in situ checking out and is only a cosmetic uplifting which did not rest on sound engineering practice and will cost money to your self and will not solve the problem. Few years of use after the project is completed the Road will show defects due to poor drainage system.

It is our duty to advice you as follows:

- a) Based on this comprehensive study we would like to propose to completely or partially refurbish 22 (or 40.0 %) of the existing structures.
- b) Our estimate for execution of this Works is to the amount of U\$300,000.00 (or 5.0 %) extra to the Project cost as stands at present (U\$6,113,965.00).
- c) We would like to inform you that this matter requires your most urgent attention and we would be grateful to have your comments and your instructions as soon as possible.
- d) Further we would like to bring to your attention that if the Contractor proceeds further with the rehabilitation of the culverts accordingly to the Project drawings, there is a contractual possibilities for the Contractor to do the works but to require to be relived from his responsibilities for the quality of the works, due to the cosmetic character of the Works.

Further be informed that in order not to stop the Contractor from continuing his Works as per his Works Programme we instructed him to precede with the construction of two of the new structures at km 4+950 and km 6+150 as per the proposed design schedule.

Other issue which in our opinion requires your full attention are those culverts where they have been in use as a part of irrigation system by locals for watering their crops. The problem has been discussed in details at the Monthly Progress Meeting and the Contractor would like to propose a plan to unable them to do the Works required by the Project. The plan includes negotiating with the locals the time table when the water has to be stopped and diverted for a period of few weeks and the Works will be done when the culverts are dry. Along the line they

make clear that they are not prepared to financially entertain any compensation claim from locals against stopping the water for any period of time. The hurdle in this plan is the unforeseeable defects at the bottom of the structures which might crop up as soon as the waters subside and the Contractor start with the Works. We have reason to expect that due to the general poor state of the drainage structure on this Project as a whole, there are structural damages below the culverts units which will require more time and more resources from the Contractor to make good damages before proceeding further with the Projects Works. We have been appointed our Assistant Resident Engineer Mr. G. Mehtiyev to participate (jointly with the Contractor representative) on your behalf during those negotiations. Never the less we would appreciate if you appoint a person from your staff where any difficult issues might be referred to for timely solutions. That will be very important as the negotiations with locals might run into money compensation events/disputes and will require your involvement.

Since the Contractor has mobilized and would like to proceed as soon as possible with the Works your comments and instructions will be appreciated as soon as possible.

Thanking you in advance and we await your instructions.

Yours Faithfully

S I Dotchev Pr. Eng
Project Manager's Representative
Louis Berger Azerbaijan

cc TRACECA – Mr. M. Graille
World Bank – Mr. F. Mamedov
PIU – Mr. A. Gojayev
Louis Berger SA – Mr. F. Signor
LBSA Team Leader – Mr. G. Tremlett

Addendum 4

Dear Sir,

Thank you for your last email and comments attached. Further please be informed as follows:

- i) The original Project design (Bridge 30 – drawings H 30-01-01 to H 30—01-05) calls for a massive monolith single reinforced concrete slab deck (15 x 15) over the span of 15 m and a thickness of 0,8 m. (!!!) as well as massive abutment foundation footings (8.0 m long each side and a 1.0 m thick) and walls
- ii) Due to the specific gravity of the fresh concrete mix being of 2.5 and more, constructing the structure will be a mission and shall require an exceptionally massive, and heavy scaffolding in order to probe the deck during the first few days till the concrete get strength require for the type of concrete and a special foundation build where the scaffolding shall be placed on the ground
- iii) The local Azeri sub – contractor (they are presently employ on other project elsewhere, where they build successfully six similar one span bridges) who is employ to do the job is not experience into a such method of building bridges and he is lacking the equipment (scaffolding) required to build the structure.
- iv) In the preliminary Contractor’s enquires about their intention to redesign they stated as follows:
 - They will not exceed the original amount in the Bill of Quantity for building that bridge in any way
 - They will construct the bridge deck as a series of “T” type parallel reinforce concrete beams (for which they have the technology and experience to produce) forming a superstructure (single deck).
- v) Our preliminary comments where that since that the Contractor are prepare to construct the bridge for the same amount of funds available under the existing Bill of Quantities, there should not be a problem. However there will be items and rates which are not provided under the existing B & Q – new revised B & Q shall be required to accommodate the redesign. The Contractor has been asked to produce along revised B & Q for the same amount of funds available under the Contract for this part of the project.
- vi) Further we would like to inform you that we have similar problem in our other contract (under our service contract with European Commission), where the two bridges have been re-design to suit the availability of local technology and experience

I hope that the above will answer your queries. If you have any other questions or query it will be my pleasure to answer those as soon as possible.

Yours faithfully

S I Dotchev
Project Manager’s Representative PS 277

Daily Work Register - Daily report

Date:

Site: **Shemkir Cay Bridge**
Gasas Su Cay Bridge

Rain fall

Air temperature

Hours of work

Machinery and equipment on site		
	work	b/down
1.....		
2.....		
3.....		
4.....		
5.....		
6.....		
7.....		
8.....		
9.....		
10.....		
11.....		
12.....		
13.....		
14.....		
15.....		

Labour on site	
1.Site Agent
2.Forman
3.Surveyor
4.Office clerk
5.Operators
6. Skill labours
7.Unskill labours
8.Total

Work in progress	Forms	Steel
1.Prefab beams		
2.Piers		
3.Abutments		
4.Concrete deck		

Remarks:
.....
.....
.....
.....
.....
.....

Materials	Aggregates			Sand		Cement	Reinforce steel	
	1	2	3	1	2		1	2
tones

W/done: m3/ton	Concrete	Asphalt	Earth	Steel
Prefab beams: Numbers cast:		22.20 m	18.00 m	12.00 m

Notes:

Accidents

For Contractor : For Consultant :

Published May 2003

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