

# **Bidding Document Procurement of Small Works**

## **National Competitive Bidding (Volume 2)**

### **Procurement of**

**Civil works for rehabilitation and maintenance of  
road section Maralik-Qaraberd-Dzithankov section  
km0+000-km11+100**

**NCB No: CW-NCB-LRNIP-AF-2016/7**

**Project: Lifeline Roads Network Improvement  
Project Additional Financing (LRNIPAF), Armenia  
Loan No: 8523-AM**

**Employer: Transport Projects Implementation Unit  
State Institution of the Ministry of Transport and  
Communication of the Republic of Armenia**

**Country: Republic of Armenia  
Issued on: July 4, 2016**



# Volume 2

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## Section II - Bid Data Sheet (BDS)

### A. Introduction

<b>ITB 1.1</b>	<p>The number of the Invitation for Bids is: <b>CW-NCB-LRNIP-AF-2016/7</b></p> <p>The Employer is: <b>Transport Projects Implementation Unit State Institution("Transport PIU" SI) of the Ministry of Transport and Communication of the Republic of Armenia.</b></p>
<b>ITB 1.1</b>	<p>The name of the bidding process is: <b>Civil works for rehabilitation and maintenance of road section Maralik-Qaraberd-Dzithankov section km0+000-km11+100.</b></p> <p>The identification number of the bidding process is: <b>CW-NCB-LRNIP-AF-2016/7</b></p> <p>The number and identification of lots comprising this bidding process are: <b>one</b></p>
<b>ITB 2.1</b>	The Borrower is: <b>Republic of Armenia.</b>
<b>ITB 2.1</b>	The name of the Project is: <b>Lifeline Roads Network Improvement Project Additional Financing (LRNIPAF)</b>
<b>ITB 2.1</b>	Loan or Financing Agreement amount: <b>US\$ 40 mln.</b>
<b>ITB 4.1</b>	Maximum number of members in the JV shall be: <b>4 (four)</b>
<b>ITB 4.4</b>	A list of debarred firms and individuals is available at the Bank's external website: <a href="http://www.worldbank.org/debarr">www.worldbank.org/debarr</a>

### B. Bidding Documents

<b>ITB 7.1</b>	<p>For <u><b>clarification purposes</b></u> only, the Employer's address is:</p> <p>Attention: <b>Emil Sargsyan, Director of Transport Projects Implementation Unit State Institution ("Transport PIU" SI) of the Ministry of Transport and Communication of the Republic of Armenia.</b></p> <p>Street Address: <b>28 Nalbandyan str., Ministry of Transport and Communication, "Transport PIU" SI</b></p> <p>Floor/Room number: <b>3rd floor, room #312a</b></p> <p>City: <b>Yerevan</b></p> <p>Country: <b>Armenia</b></p> <p>Telephone: <b>(+37410) 54-57-48, (+37460) 54-05-27, (+37410) 58-05-23</b></p> <p>Facsimile number: <b>(+37460) 54-05-25</b></p> <p>Electronic mail address: <a href="mailto:esargsyan@transportpiu.am">esargsyan@transportpiu.am</a>, <a href="mailto:gtadevosyan@transportpiu.am">gtadevosyan@transportpiu.am</a>,</p>
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	Requests for clarification should be received by the Employer no later than: <b>14 (fourteen) days prior to the deadline for submission of bids.</b>
<b>ITB 7.1</b>	Web page: <a href="http://www.procurement.am">www.procurement.am</a>
<b>ITB 7.4</b>	A Pre-Bid meeting <b>shall not</b> take place. A site visit conducted by the Employer <b>shall not</b> be organized.

### **C. Preparation of Bids**

<b>ITB 10.1</b>	The language of the bid is: <b>English</b>  All correspondence exchange shall be in <b>English</b> language.  Language for translation of supporting documents and printed literature is as given above.
<b>ITB 11.1 (b)</b>	The following schedules shall be submitted with the bid: <b>(i) Priced Bill of Quantities</b>
<b>ITB 11.1 (h)</b>	The Bidder shall submit with its bid the following additional documents:  <b>The statement signed by the Director (Chief Executive Officer) of the Bidder that the Bidder during the three years before the bid submission date had not violated its contractual obligations envisaged by the contracts financed by the World Bank funded projects that have resulted in the unilateral termination of the contract by the Client.</b>
<b>ITB 13.1</b>	Alternative bids <b>shall not be</b> permitted.
<b>ITB 13.2</b>	Alternative times for completion <b>shall not be</b> permitted.  If alternative times for completion are permitted, the evaluation method will be as specified in Section III, Evaluation and Qualification Criteria.
<b>ITB 13.4</b>	Alternative technical solutions shall be permitted for the following parts of the Works: <b>N/A</b>  If alternative technical solutions are permitted, the evaluation method will be as specified in Section III, Evaluation and Qualification Criteria.
<b>ITB 14.5</b>	The prices quoted by the Bidder <b>shall not be</b> subject to adjustment during the performance of the Contract.
<b>ITB 15.1</b>	The prices shall be quoted by the bidder in: <b>Armenian Dram (AMD).</b>

<b>ITB 18.1</b>	The bid validity period shall be: <b>60 (sixty) days</b> after the date specified for submission of bids.
<b>ITB 18.3 (a)</b>	The bid price shall be adjusted by the following factor(s): <b>N/A</b>
<b>ITB 19.1</b>	<p>A Bid Security <b>shall be</b> required. Bid shall include a Bid Security issued by a reputable bank using the Bid Security Form (Bank Guarantee) included in Section IV, Bidding Forms.</p> <p>A Bid-Securing Declaration <b>shall not</b> be required.</p> <p>The amount and currency of the bid security shall be:</p> <p><b>AMD 30 000 000 (thirty million)</b></p>
<b>ITB 19.3 (b) (c) (d)</b>	<p>an irrevocable letter of credit: <b>N/A</b></p> <p>a cashier's or certified check: <b>N/A</b></p> <p>another security specified in the BDS: <b>N/A</b></p>
<b>ITB 19.9</b>	<b>Not Applicable</b>
<b>ITB 20.1</b>	In addition to the original of the bid, the number of copies is: <b>1 (one)</b> .
<b>ITB 20.2</b>	<p>The written confirmation of authorization to sign on behalf of the Bidder shall consist of:</p> <p>(a) <b>Power of Attorney; and</b></p> <p>(b) <b>In the case of Bids submitted by an existing or intended JV, an undertaking signed by all parties (i) stating that all parties shall be jointly and severally liable, and (ii) nominating a Representative who shall have the authority to conduct all business for and on behalf of any and all the parties of the JV during the bidding process and, in the event the JV is awarded the Contract, during contract execution.</b></p>

#### **D. Submission and Opening of Bids**

<b>ITB 22.1</b>	Bidders <b>shall not</b> have the option of submitting their bids electronically. If electronic bid submission is permitted in accordance with ITB 21.1, the specific bid opening procedures shall be: <b>Not Applicable</b>
<b>ITB 22.1</b>	<p>For <b><u>bid submission purposes</u></b> only, the Employer's address is:</p> <p>Attention: <b>Emil Sargsyan, Director of Transport Projects Implementation Unit State Institution ("Transport PIU" SI) of the Ministry of Transport and Communication of the Republic of Armenia.</b></p>

	<p>Street Address: <b>28 Nalbandyan St, Ministry of Transport and Communication, “Transport PIU” SI</b></p> <p>Floor/Room number: <b>3rd floor, room #312a</b></p> <p>City: <b>Yerevan</b></p> <p>Country: <b>Armenia</b></p> <p><b>The deadline for bid submission is:</b></p> <p>Date: <b>03 August, 2016</b></p> <p>Time: <b>11:00 (Yerevan time)</b></p> <p>Bidders <b>shall not</b> have the option of submitting their bids electronically.</p> <p>If bidders have the option of submitting their bids electronically, the electronic bidding submission procedures shall be: <b>Not Applicable</b></p>
<b>ITB 25.1</b>	<p>The bid opening shall take place at:</p> <p>Street Address: <b>28 Nalbandyan St, Transport Projects Implementation Unit State Institution(“Transport PIU” SI) of the Ministry of Transport and Communication of the Republic of Armenia.</b></p> <p>Floor/Room number: <b>5rd floor, Conference hall</b></p> <p>City: <b>Yerevan</b></p> <p>Country: <b>Armenia</b></p> <p>Date: <b>03 August, 2016</b></p> <p>Time: <b>11:10 (Yerevan time)</b></p>

<b>TB 25.3</b>	The Letter of Bid and Priced Bill of Quantities shall be initiated by <b>one</b> representatives of the Employer conducting Bid opening: <b>The member of Evaluation Committee will initial all pages of the Letter of Bid and Priced Bill of Quantities of each Bid.</b>
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### E. Evaluation and Comparison of Bids

<b>ITB 34.1</b>	At this time the Employer <b>does not intend</b> to execute certain specific parts of the Works by sub-contractors selected in advance.
<b>ITB 34.3</b>	<p>Contractor's proposed subcontracting: Maximum percentage of subcontracting permitted is: <b>30% of the total contract amount</b></p> <p>b) Bidders planning to subcontract more than 10% of total volume of work shall specify, in the Letter of Bid, the activity (ies) or parts of the works to be subcontracted along with complete details of the sub-contractors and their qualification and experience. The qualification and experience of the sub-contractors must meet the minimum criteria for the relevant work to be sub-contracted failing which such sub-contractors will not be permitted to participate.</p> <p>c) Sub-contractors' qualification and experience will be considered for evaluation of the Bidder according to ITB 34.2</p>

### F. Award of Contract

<b>ITB 43.1</b>	<p>The Adjudicator proposed by the Employer is: <b>Mr. Artashes F. Kakoyan, 6 Yekmalyan St. Yerevan, Armenia.</b> The hourly fee for this proposed Adjudicator shall be: <b>AMD 60,000.</b> The biographical data of the proposed Adjudicator is as follows: <i>EDUCATION:</i>  1981-1989 : Yerevan State University, Department of Law.  1991-1995 : Moscow Institute for International Affairs, Department of International Public Law  1996-1998: American University of Armenia, LLM Program  1996/10 Joint Vienna Institute, Strategic Management and Leadership (Training course)  <i>DEGREE: PhD</i>  <i>EXPERIENCE:</i>  Participation in Representation of the President of the Republic of Armenia before the RA courts and the Central Electoral Commission during the presidential elections of 2003.  International litigation in High Court of UK, Commercial Division, Queens Bench; on behalf of the Republic of Armenia.  Arbitration in London under ICC rules, on behalf of the Republic of Armenia, expert-witness of Armenian legislation.  <i>AGE:49</i>  <i>NATIONALITY: Armenian</i>  <i>PRESENT POSITION:</i>  Director of Investment Law Group LLC  More detailed information may be found at the following link:  <a href="http://www.lawyer.am/partners_artashes_kakoyan_2.htm">http://www.lawyer.am/partners_artashes_kakoyan_2.htm</a></p>
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## Section III. Evaluation and Qualification Criteria

This Section contains all the criteria that the Employer shall use to evaluate bids and qualify Bidders. In accordance with ITB 35 and ITB 37, no other factors, methods or criteria shall be used. The Bidder shall provide all the information requested in the forms included in Section IV, Bidding Forms.

Wherever a Bidder is required to state a monetary amount, Bidders should indicate the national currency. If any amounts are in foreign currency equivalent national currency using the rate of exchange specified by the bidder will be determined as follows:

-For construction turnover or financial data required for each year - Exchange rate prevailing on the last day of the respective calendar year (in which the amounts for that year is to be converted) was originally established.

-Value of single contract - Exchange rate prevailing on the date of the contract.

### 1. Evaluation

In addition to the criteria listed in ITB 35.2 (a) – (e) the following criteria shall apply:

#### 1.1 Financial Strength of Bidder

The data submitted by the bidder shall clearly demonstrate that it has the financial strength to undertake the proposed works. In particular it shall show that the bidder has the necessary financial backing to carry out the whole of the works within 90 months of the start date.

In order to demonstrate this, the Bidder must provide comprehensive evidence that it has readily available working capital to meet the costs of works (excluding Provisional Sums) and to meet the requirements given in the table of Qualification Criteria below. Information shall be provided using the Forms CCC and FIN-1 provided in Section IV, Bid Forms, Current Commitments/Financial Resources accompanied by the audited accounts stipulated.

#### 1.2 Technical Strength of the Bidder

The bidder shall clearly demonstrate that it has the technical strength to carry out the project. This shall be demonstrated through the quality of the personnel who will be deployed, by the adequacy of the equipment available for the project and through the experience of the Bidder in the different areas of work required.

#### 1.3 Adequacy of Technical Proposal

Evaluation of the Bidder's Technical Proposal will include an assessment of the Bidder's understanding of the project requirements and his ability to meet them. This will be judged on the quality of the bidders:

- |   |                       |   |
|---|-----------------------|---|
| • | Site Organization     | S |
| • | Method Statement      | M |
| • | Mobilization Schedule | M |
| • | Construction Schedule | C |

#### 1.4 Composition of the Bidder or Bidding Group

The Particular Conditions allow for the use of sub-contractors across a wide range of activities, however, if sub-contractor's experience is to be used to provide a part of the Bidder's qualifications then that (or those) sub-contractor(s) must be named in these qualification data and complete details provided as for members of a joint venture.

The bidder must provide sufficient details of the work expected to be allocated to each named sub-contractor and sufficient details of the sub-contractor's financial strength to demonstrate that the sub-contractor has the financial strength to undertake the proportion of the proposed works allocated to him.

Similar data must be provided for named subcontractors as for JV partners and the forms for JV information should also be completed for such subcontractors.

**1.5 Completion Time**

No alternative completion times will be permitted.

**1.6 Technical Alternatives**

There will be no evaluation of technical alternatives.

**1.7 Specialized Subcontractors**

Only the specific experience of sub-contractors for specialized works permitted by the Employer will be considered. The general experience and financial resources of the specialized sub-contractors shall not be added to those of the Bidder for purposes of qualification of the Bidder.

The specialized sub-contractors proposed shall be fully qualified for their work proposed, and meet the following criteria: **WINTER AND SUMMER ROUTINE MAINTENANCE.**

**1.8 Additional Qualification Criterion**

Bidder shall demonstrate that it has the capacity to handle the contract for the proposed works, while executing any outstanding works the bidder has already committed with the Employer or any other agencies. The Bidder shall submit the outstanding works in the form CCC (Current Contract Commitments/Works in Progress) with the bid.

The Bidder's capacity is calculated as follows:

$$AT1 = AT2 - OW$$

Where:

AT1 – The bidder's Available Annual Capacity (cumulative amount of contract(s) that can be awarded to the bidder)

AT2 - Average Annual Construction Turnover of the Bidder as submitted in FORM FIN 3.2

OW – Annual Value of Outstanding Work including contracts awarded but work not yet started as submitted in Form CCC.

The bidder shall complete this table:

	AMD
Average Annual Turnover (AT2)	
Annual Value of Outstanding Work (OW)	
Available Annual Capacity (AT1)	

### 3. Qualification

Eligibility and Qualification Criteria			Compliance Requirements				Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Named Subcontractor	Submission Requirements
				All Parties Combined	Each Member	One Member		
		1. Eligibility						
1.1	Nationality	Nationality in accordance with ITB 4.3	Must meet requirement	Must meet requirement	Must meet requirement	N / A	Must meet requirement	Form ELI –1.1 and 1.2, with attachments
1.2	Conflict of Interest	No- conflicts of interests as described in ITB 4.2.	Must meet requirement	Must meet requirement	Must meet requirement	N / A	Must meet requirement	Letter of Bid
1.3	Bank Eligibility	Not having been declared ineligible by the Bank as described in ITB 4.4.	Must meet requirement	Must meet requirement	Must meet requirement	N / A	Must meet requirement	Letter of Bid
1.4	Government Owned Entity of the Borrower country	Compliance with conditions of ITB 4.5	Must meet requirement	Must meet requirement	Must meet requirement	N / A	Must meet requirement	Form ELI –1.1 and 1.2, with attachments
1.5	United Nations resolution or Borrower’s country law	Not having been excluded as a result of the Borrower’s country laws or official regulations, or by an act of compliance with UN Security Council resolution, in accordance with ITB 4.7	Must meet requirement	Must meet requirement	Must meet requirement	N / A	Must meet requirement	Letter of Bid
		2. Historical Contract Non-Performance						
2.1	History of Non-Performing Contracts	Non-performance of a contract <sup>1</sup> did not occur within the last five (5) years prior to the deadline for bid submission.	Must meet requirement by itself or as partner to past or existing JV	N / A	Must meet requirement by itself or as partner to past or existing JV	N / A	N / A	Form CON - 2
2.2	Suspension Based on Execution of Bid Securing Declaration	Not under suspension based on execution of a Bid Securing Declaration	Must meet requirement by itself or as	N / A	Must meet requirement by itself or as	N / A	N / A	Letter of Bid

<sup>1</sup>Non performance, as decided by the Employer, shall include all contracts where (a) nonperformance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Non performance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Non performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.

Eligibility and Qualification Criteria			Compliance Requirements				Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Named Subcontractor	Submission Requirements
				All Parties Combined	Each Member	One Member		
	by the Employer or withdrawal of the Bid within Bid validity	pursuant to ITB 4.6 or withdrawal of the Bid pursuant ITB 19.9.	partner to past or existing JV		partner to past or existing JV			
2.3	Pending Litigation	All pending litigation shall in total not represent more than twenty percent (20 %) of the Bidder's <sup>2</sup> net worth and shall be treated as resolved against the Bidder.	Must meet requirement by itself or as partner to past or existing JV	N / A	Must meet requirement by itself or as partner to past or existing JV	N / A	N / A	Form CON – 2

<sup>2</sup>The Bidder shall provide accurate information on the letter of Bid about any litigation or arbitration resulting from contracts completed or ongoing under its execution over the last five years. A consistent history of court/arbitral awards against the Bidder or any member of a joint venture, or sub-contractor may result in disqualifying the Bidder.

Eligibility and Qualification Criteria			Compliance Requirements				Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Named Subcontractor	Submission Requirements
				All Parties Combined	Each Member	One Member		
		3. Financial Situation and Performance						
3.1	Historical Financial Performance	Submission of audited balance sheets or if not required by the law of the bidder's country, other financial statements acceptable to the Employer, for the last five (5) years to demonstrate the current soundness of the bidders financial position and its prospective long term profitability.	Must meet requirement	N / A	Must meet requirement	N / A	N / A	Form FIN – 3.1 with attachments
3.2	Average Annual Construction Turnover	Minimum average annual construction turnover of <b>AMD 2 200 000 000</b> , calculated as total certified payments received for contracts in progress and/or completed <b>within the last 5 (five) years, divided by 5 (five)</b> .	Must meet requirement	Must meet requirement	Must meet <b>at least 25 %</b> of the requirement	Must meet <b>at least 40 %</b> , of the requirement	N / A	Form FIN – 3.2
3.3	Financial Resources	The Bidder must demonstrate access to, or availability of, financial resources such as liquid assets, unencumbered real assets, lines of credit, and other financial means, other than any contractual advance payments to meet: (i) the following cash-flow requirement: <b>AMD 365 000 000</b> and (ii) the overall cash flow	Must meet requirement	Must meet requirement	Must meet <b>at least 50 %</b> , of the requirement	N / A	N / A	Form FIN – 3.3

Eligibility and Qualification Criteria			Compliance Requirements				Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Named Subcontractor	Submission Requirements
				All Parties Combined	Each Member	One Member		
		requirements for this contract and its current commitments.						

Eligibility and Qualification Criteria			Compliance Requirements				Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Named Subcontractor	Submission Requirements
				All Parties Combined	Each Member	One Member		
4. Experience								
4.1	General Construction Experience	Experience under construction contracts in the role of prime contractor, JV member, sub-contractor, or management contractor for at least the last <b>5 (five) years, starting 1<sup>st</sup> January 2011.</b>	Must meet requirement	N/A	Must meet requirement	N/A	N/A	Form EXP-4. 1
4.2 (a)	Specific Construction & Contract Management Experience	(i) A minimum number of similar <sup>3</sup> contracts specified below that have been satisfactorily and substantially <sup>4</sup> completed as a prime contractor, joint venture member <sup>5</sup> , management contractor or sub-contract or between <b>1<sup>st</sup> January 2011</b> and application submission deadline:  <b>One contract with minimum value AMD 1 160 000 000</b>  <b>or 2 contracts, each of minimum value AMD 580 000 000</b>	Must meet requirement	Must meet requirement <sup>6</sup>	Must meet requirement of at least one Contract with the requested minimum value.	N/A	N/A	Form EXP 4.2(a)

<sup>3</sup> The similarity shall be based on the physical size, complexity, methods/technology and/or other characteristics described in Section VII, Work's Requirements. Summation of number of small value contracts (less than the value specified under requirement) to meet the overall requirement will not be accepted.

<sup>4</sup> Substantial completion shall be based on 80% or more works completed under the contract.

<sup>5</sup> For contracts under which the Bidder participated as a joint venture member or sub-contractor, only the Bidder's share, by value, shall be considered to meet this requirement.

<sup>6</sup> In the case of JV, the value of contracts completed by its members shall not be aggregated to determine whether the requirement of the minimum value of a single contract has been met. Instead, each contract performed by each member shall satisfy the minimum value of a single contract as required for single entity. In determining whether the JV meets the requirement of total number of contracts, only the number of contracts completed by all members each of value equal or more than the minimum value required shall be aggregated.

Eligibility and Qualification Criteria			Compliance Requirements				Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Named Subcontractor	Submission Requirements
				All Parties Combined	Each Member	One Member		
4.2 (b)		For the above and any other contracts completed and under implementation as prime contractor, joint venture member, management contractor or sub-contractor <sup>7</sup> on or after the first day of the calendar year during the period stipulated in 4.2 (a) above, a minimum construction experience in the following key activities successfully completed <sup>8</sup> :						
		<b>EARTH WORKS</b> (min 30 000 m <sup>3</sup> in any year within the last five (5) years)	Must meet requirements	Must meet requirements	Must meet at least 25% of value of key activity requirements	Must meet at least 60% of value of key activity requirements	N/A	Form EXP – 4.2 (b)
		<b>PAVEMENT WORKS</b> (min 75 000 m <sup>2</sup> in any year within the last five (5) years)	Must meet requirements	Must meet requirements	Must meet at least 25% of value of key activity requirements	Must meet at least 60% of value of key activity requirements	N/A	Form EXP – 4.2 (b)
		<b>DRAINAGE WORKS</b> (min 4 000 l.m. in any year within the last five (5) years)	Must meet requirements	Must meet requirements	Must meet at least 25% of value of key activity requirements	Must meet at least 60% of value of key activity requirements	N/A	Form EXP – 4.2 (b)
		<b>WINTER AND SUMMER ROUTINE MAINTENANCE</b> (min 20 km roads in any year within the last five (5) years)	Must meet requirements	Must meet requirements	Must meet at least 25% of value of key activity requirements	Must meet at least 60% of value of key activity requirements	Must meet the requirement in proposed activity	Form EXP – 4.2 (b)

<sup>7</sup> For contracts under which the Bidder participated as a joint venture member or sub-contractor, only the Bidder's share shall be counted to meet this requirement.

<sup>8</sup> Volume, number or rate of production of any key activity can be demonstrated in one or more contracts combined if executed during same time period. The rate of production shall be the annual production rate for the key construction activity (or activities).

<sup>9</sup> The sub-contractors proposed shall be fully qualified for their work proposed, and meet the criteria.



## 5. Personnel

The Bidder must demonstrate that it will have the personnel for the key positions that meet the following requirements:

No.	Position	Total Work Similar Experience (years)	In Similar Works Experience (years)
1	Contractor's Project Manager	15	10
2	Chief engineer	10	7
3	Site Manager	7	5
4	Foreman	7	5

The Bidder shall provide details of the proposed personnel and their experience records in the relevant Forms included in Section IV, Bidding Forms.

## 6. Equipment

The Bidder must demonstrate that it will have access to the key Contractor's equipment listed hereafter:

No.	Equipment Type and Characteristics	Minimum Number required
1	Asphalt concrete plant	with productivity not less than 30 tons/hour
2	Motor grader	2
3	Loader (any type)	2
4	Excavator (any type)	2
5	Dump truck, minimum capacity 10 t	8
6	Bulldozer (any type)	1
7	Water jet (any type)	2
8	Compressor	2
9	Steel roller with operating weight not less than 10t and not more than 13t	1
10	Vibrating steel roller with operating weight not less than 6t and not more than 8t	2
11	Rubber Tire compactor with operating weight not less than 9t and not more than 12t	1
12	Hydraulically or pneumatically operated Bitumen sprayer	1
13	Asphalt paver with an adjustable asphalt laying width not less than 3 m and suitable for advanced level adjustment work	1
14	Weigh bridge minimum 30 t or access to weigh bridge (at territory of asphalt concrete plant)	1
15	Site Laboratory or access to Laboratory (full set, the laboratory must be equipped in accordance with the requirements specified in the Technical Specifications)	1

The bidder should confirm that all equipment offered for the Works are in operable condition and functioning properly.

The Bidder shall provide further details of proposed items of equipment using the relevant Form in Section IV.

## **Section VII - Works Requirements**

## Specifications

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103	REMOVAL OF STRUCTURES, OBSTRUCTION AND TREES	103-01
<b>2</b>	<b>EARTH WORKS</b>	
201	EXCAVATION AND EMBANKMENTS	201-01
202	EXCAVATION OF NEW DITCHES	202-01
204	SUBGRADE PREPARATION	202-01
<b>3</b>	<b>PAVEMENT</b>	204-01
301	COLD REGENERATION	301-01
302	THERMAL REGENERATION	302-02
303	COLD MILLING	303-01
304	SEALING OF CRACKS & JOINTS AND PATCHING	304-01
305	LEVELING COURSES	305-01
306	RECONSTRUCTION AND WIDENING OF EXISTING PAVEMENT	306-01
307	BITUMEN PRIME AND TACK COAT	307-01
308	HOT ASPHALT CONCRETE PAVEMENT	308-01
309	SURFACE TREATMENT	309-01
309A	CRESCENT-SHAPED PAVEMENT	309A-01
309 B	<b>OTTA SEALING</b>	309B-01
309C	GEOGRID	309C-01
310	RAISING AND STRENGTHENING OF SHOULDERS	310-01

311	MINOR WORKS WITH ASPHALT CONCRETE	311-01
312	PORTLAND CEMENT STABILIZED GRAVEL PAVEMENT	312-01
313	BITUMEN TREATED BASE COURSE	313-01
<b>4</b>	<b>DRAINAGE</b>	
401	DRAINAGE STRUCTURES	401-01
402	RECONDITIONING EXISTING DRAINAGE STRUCTURES	402-01
403	SPILLWAYS, GULLIES AND LINED DITCHES	403-01
404	MINOR CONCRETE STRUCTURES	404-01
405	MANHOLES, INLETS, AND CATCH BASINS	405-01
5	JUNCTIONS	
6	ROAD FURNITURE	
601	GUARDRAILS AND PARAPETS	601-01
602	PEDESTRIAN & BRIDGE RAIL	602-01
603	BUS STOPS	603-01
604	PERMANENT TRAFFIC CONTROL	604-01
605	PERMANENT PAVEMENT MARKINGS	605-01
606	TEMPORARY TRAFFIC CONTROL	606-01
7	UTILITY RELOCATION	
701	UTILITIES	701-01
	STANDARDS	
8	ARTIFICIAL STRUCTURES	
801	MATERIALS AND SAFETY PRECAUTIONS	801-01
802	INITIAL CONSTRUCTION WORK	802-01
803	EXCAVATION AND BACKFILL	803-01
804	FORMWORKS	804-01
805	REINFORCEMENT	805-01
806	CONCRETE WORKS	806-01
807	REPAIR OF SMALL CONCRETE DAMAGES WITHOUT FORMS	807-01
808	PAINTING OF THE EXISTING STEEL STRUCTURES	808-01
809	DOWN PIPES	809-01
810	BRIDGE RAILINGS AND SIDEWALKS	810-01
811	BEARINGS	811-01
812	BRIDGE DECK EXPANSION JOINTS	812-01
813	WATERPROOFING	813-01
814	ROCKFALL PROTECTION WITH MESH	814-01
9	GABION STRUCTURE	901-01
901	GABION BLOCKWORK	
10	SIDEWALKS WORKS	1001-01
1001	CONSTRUCTION OF SIDEWALKS	
11	UNDERPASSES AND OVERPASSES	

1101	REPAIRING OF UNDERPASSES AND OVERPASSES	
12	ROUTINE SUMMER AND ROUTINE WINTER MAINTENANCE	
Appendix 1	ENVIRONMENTAL MANAGEMENT PLAN (EMP)	N/A
Appendix 2	SAFE WORKING ON THE HIGHWAY	
Appendix 3	PROPOSAL FOR REVISED GOVERNMENT DECREE NO 1419 ON APPROVING THE PROCEDURES FOR ASSESSING LEVELS OF ROUTINE SUMMER AND ROUTINE WINTER MAINTENANCE OF GENERAL USE ROADS OF ARMENIA AND ACCEPTANCE OF PERFORMED WORKS WITHIN PERFORMANCE BASED CONTRACTING CONSULTANCY ASSIGNMENT.	

**All goods and materials to be incorporated in the Works be new, unused.**

**Detailed Specifications are provided as a separate document: BIDDING DOCUMENTS VOLUME 2 – TECHNICAL SPECIFICATION.**

## Drawings

	Design package	Նախագծի կազմ
	Location of road	Ճանապարհի տեղադիրքը
	List of drawings	Գծազրերի ցուցակ
	<i>RD - General roadworks drawings</i>	<i>RD - Ճանապարհային աշխատանքների հիմնական գծազրեր</i>
1 - 01	Layout of road and longitudinal section	Ճանապարհի հատակագիծ և երկայնական կտրվածք
1 - 01	Layout of road and longitudinal section (street v. Karaberd)	Ճանապարհի հատակագիծ և երկայնական կտրվածք (փողոց գ. Քարաբերդ)
1 - 01	Layout of road and longitudinal section (street v. Dzithankov)	Ճանապարհի հատակագիծ և երկայնական կտրվածք (փողոց գ. Զիթհանքով)
2-01-2-03	Layout of road marking	Ճանապարհի գծանշման հատակագիծ
2-04	Scheme of installation of slabs for agricultural crossing	Գյուղ տեխնիկայի անցման սալերի տեղադրման սխեմա
	<i>TD-Typical drawings</i>	<i>TD-Տիպային գծազրեր</i>
TD01	Legend	Պայմանական նշաններ
TD02	Placing pavement on crossings and contiguous sections	Ծածկի կառուցումը փոխհատման և հարակցման մասերում
TD03-01 TD03-02	Structure of pavement	Ճանապարհային հագուստի կոնստրուկցիա
TD04	Structure of r/c chute, slab and sidewalk	Ե/բ վաքի, սալի և մայրի կոնստրուկցիա
TD05	Structures of chutes	Վաքերի կոնստրուկցիաներ 30x34; B-2-20
TD06-01	Water inlet	Զրընդունիչ վաք
TD06-02	Acc. ramp water inlet	Զրընդունիչ վաք իջատեղերում
TD07	Sidewalk construction diagram	Մայրերի կառուցման սխեմա
TD08	Standard r/c slab 600x200x14 cm	Ստանդարտ ե/բ սալ 600x200x14 սմ
TD09	Traffic regulation scheme	Երթևեկության կարգավորման սխեմա
TD10	Road marking	Ճանապարհային երթևեկության գծանշում
TD11	Standard design of traffic sign installation	Ճանապարհային նշանների տեղադրման տիպային նախագիծ
TD12	Diagram of sizes of traffic signs	Ճանապարհային նշանների չափերի սխեմա
TD13	Structure of delineators	Ազդանշանային սյան կոնստրուկցիա
TD14	Gabion network and the brickwork	Գաբիոնային ցանց և շարվածք
TD15	Road safety improvement scheme	Երթևեկության անվտանգության բարելավման սխեմա
TD16	Steel guardrail with metal posts	Պողպատե արգելապակնոց մետաղական

		պո ներով
4 - 01	Culverts and r/c well	Խողովակներ և ջրհորներ
4 - 01A	Drainage scheme	Ջրահեռացման սխեմա
	Bridges	Կամուրջներ
4 - 02	Bridge Km 2+693.3	Կամուրջ Կմ 2+693.3
4 - 03	Bridge Km 9+755.22	Կամուրջ Կմ 9+755.22
	Gabion	Գաբիոն
5 - 01	Gabion km 8+451 - km 8+490 (Profil and cross section)	Գաբիոն կմ 8+451 - կմ 8+490 (երկայնական և լայնական կտրվածքներ)
5 - 02	Gabion km 8+710 - km 8+730 (Profil)	Գաբիոն կմ 8+710 - կմ 8+730 (լայնական կտրվածք)
5 - 03	Gabion km 8+734 - km 8+737 (Profil)	Գաբիոն կմ 8+734 - կմ 8+737 (լայնական կտրվածք)
	Description of works	Աշխատանքների նկարագրության գրաֆիկ
<p style="text-align: center;"><b>PREVENTION OF ROCKFALLS</b>  <b>ՔԱՐԱԹԱՓՈՒՄՆԵՐԻ ԿԱՆԽԱՐԳԵԼՈՒՄ</b></p>		
1	Prevention of rockfalls with retaining wall (Plan and cross section)	Քարաթափման կանխարգելում հենապատով (Հատակագիծ և լայնական կտրվածքներ)
2	Prevention of rockfalls with netting	Քարաթափման կանխարգելման միջոցառում ցանցային ամրացմամբ
3	Gabion netting and blockwork	Գաբիոնային ցանց և շարվածք
4	Gabion km 8+257 - km 8+290 (Profil and cross section)	Գաբիոն կմ 8+257 - կմ 8+290 (երկայնական և լայնական կտրվածքներ)
5	Cross section of preventive measures for rockpalls	Քարաթափման կանխարգելման միջոցառման լայնական կտրվածքներ
	Explanatory note	Բացատրագիր
	<b>Summaries</b>	<b>Ամփոփագրեր</b>
1	Subgrade rehabilitation summary	Հողային պաստառի նորոգման ամփոփագրեր
2	Summary of construction of terraces	Աստիճանների կտրման ամփոփագիր
3	Carriageway rehabilitation summary	Երթևեկելի մասի նորոգման ամփոփագրեր
4	Summary of access ramps	Իջատեղերի ամփոփագրեր
5	Summary of sidewalk demolition and restoration	Մայթերի քանդման և վերականգման ամփոփագրեր
6	Summary of artificial structures	Արհեստական կառուցվածքների ամփոփագիր
7	Summary of concrete chutes 30x34	Բետոնե վաքերի ամփոփագրեր 30x34
8	Summary of concrete chutes B-2-20	Բետոնե վաքերի ամփոփագրեր B-2-20

9	Summary of concrete chutes 50x60x240	Բետոնե վաքերի ամփոփագիր 50x60x300
10	Summary of demolition and relocation of utilities	Կոմունիկացիաների քանդման տեղափոխման ամփոփագիր
11	Summary of rehabilitation retaining walls	Հենապատի նորոգման ամփոփագիր
12	Summary of guardrails	Գաբիոնների ամփոփագիր
13	Summary of carriageway marking	Գաբիոնային ցանցի ամփոփագիր
14	Summary of guardrails	Գաբիոնների հողային աշխատանքների ամփոփագիր
15	Summary of guardrails	Արգելափակոցների ամփոփագիր
16	Summary of carriageway marking	Երթ. մասի նշագծման ամփոփագրեր
17	Summary of traffic signs	Ճան. նշանների ամփոփագրեր
18	Summary of water inlets volumes km4+274.5, km5+387, km10+386	Ջրընդունիչների ծավալների ամփոփագիր կմ 4+274.5 ; կմ 5+387 ; կմ 10+386
19	Summary of guardrails volumes (acc. ramp)	Ջրընդունիչների ծավալների ամփոփագիր (իջատեղերում)
20	Summary of guardrails	Ջրընդունիչի ամփոփագիր (գ. Քարաբերդ փողոց դեպի գյուղապետարան)
21	Summary list	Համահավաք ամփոփագիր
22	Summary lists of culvert volumes	Խողովակների և ջրհորների ծավալների ամփոփագրեր
23	Summary list of rehabilitation retaining wall volumes	Հենապատի նորոգման ծավալների ամփոփագիր
24	Summary list of retaining wall volumes	Գաբիոնների ամփոփ ամփոփագիր
25	Summary list of retaining wall volumes	Կամուրջների վերանորոգման ծավալների ամփոփագրեր
PREVENTION OF ROCKFALLS ՔԱՐԱԹԱՓՈՒՄՆԵՐԻ ԿԱՆԽԱՐԳԵԼՈՒՄ		
1	Explanatory note	Բացատրագիր
2	Summaries of subgrade	Հողային աշխատանքների ամփոփագրեր
3	Summary of earthworks of gabions	Գաբիոնների հողային աշխատանքների ամփոփագրեր
4	Summary of gabions	Գաբիոնների ամփոփագրեր
5	Summary of gabions blockwork	Գաբիոնային ցանցի ամփոփագրեր
6	Summary list	Համահավաք ամփոփագիր
7	Summary list of gabions	Գաբիոնների ամփոփ ամփոփագրեր

**Summaries and Drawings are provided as a separate document: BIDDING DOCUMENTS VOLUME 3 – DRAWINGS.**



## **Bill of Quantities**

### **Bill of Quantities is provided as separate documents:**

#### **A. Preamble**

1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, General and Particular Conditions of Contract, Technical Specifications, and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and technical construction supervisor and verified by the Engineer and valued at the rates and prices bid in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Project Manager may fix within the terms of the Contract.
3. The rates and prices bid in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract, include all Constructional Plant, labor, supervision, materials, erection, maintenance, insurance, profit, taxes, and duties, together with all general risks, liabilities, and obligations set out or implied in the Contract.
4. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of Items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
5. The whole cost of complying with provisions of the Contract shall be included in the items provided in the prices Bill of Quantities , and where no items are provided the cost shall be deemed to be distributed amount the rates and prices entered for the related items of Works.
6. Any arithmetic errors in computation or summation will be corrected by the Employer as follows:
  - (a) where there is a discrepancy between amounts in figures and in words, the amount in words will govern; and
  - (b) where there is a discrepancy between the unit rate and the total amount derived from the multiplication of the unit price and the quantity, the unit rate as quoted will govern, unless in the opinion of the Employer, there is an obviously gross misplacement of the decimal point in the unit price, in which event the total amount as quoted will govern and the unit rate will be corrected.

Bidders shall price the Bill of Quantities in **Armenian Drams only**.

## **Supplementary Information**

## Section VIII

### Particular Conditions of Contract

<b>A. General</b>	
<b>GCC 1.1 (d)</b>	The financing institution is: <b>International Bank for Reconstruction and Development (IBRD)</b>
<b>GCC 1.1 (s)</b>	The Employer is <b>Transport Projects Implementation Unit State Institution of the Ministry of Transport and Communication of the Republic of Armenia.</b>
<b>GCC 1.1 (v)</b>	<p>The Intended Completion Date for the whole of the Works shall be:</p> <p><i>a) for Construction Works: 12 months after Contract signing</i></p> <p><i>b) for Routine Maintenance Works:</i></p> <p><i>(i) 9 months after completion of construction for Winter Routine Maintenance; and</i></p> <p><i>(ii) 18 months after completion of construction for Summer Routine Maintenance.</i></p> <p><i>Note: summer routine and winter routine maintenance after completion of construction is included in the Bill of Quantities, except part of summer routine maintenance during one year Defects Liability Period.</i></p>
<b>GCC 1.1 (y)</b>	The Project Manager is <b>to be nominated.</b>
<b>GCC 1.1 (aa)</b>	The Site is located at: <b>Shiraki Region, Maralik-Qaraberd-Dzithankov. km0+000 km3+290, km0+000-km11+100 and defined in the Section VIII Drawings</b>
<b>GCC 1.1 (dd)</b>	<p>The Start Date shall be.</p> <p><i>a) for Construction Works: 7 (seven) days after the Contract signing.</i></p> <p><i>b) for Routine Maintenance Works:</i></p> <p><i>(i) 15<sup>th</sup> of November 2017, 15<sup>th</sup> of November 2018 for Winter Routine Maintenance; and</i></p> <p><i>(ii) 1st of September 2017, 1st of April 2018 and 1st of April 2019 for Summer Routine Maintenance.</i></p> <p><i>Note: summer routine and winter routine maintenance after completion of construction is included in the Bill of Quantities, except part of summer routine maintenance during one year Defects Liability Period.</i></p>

<b>GCC 1.1 (hh)</b>	<p>The Works consist of:</p> <ul style="list-style-type: none"> <li>i) <b>Main type of works required:</b> roadway excavation, loosening of rocky ground, implementation of bedding courses, crushed stone base, asphalt layer, pothole patching, placing of leveling blanket, asphalt concrete overlay, construction of retaining walls, drainage, road safety measures, etc..</li> <li>ii) <b>Routine maintenance:</b> summer routine and winter routine maintenance in accordance with the <b>TECHNICAL SPECIFICATION</b>.</li> </ul>
<b>GCC 2.2</b>	Sectional Completions are: <b>None</b>
<b>GCC 2.3(i)</b>	The following documents also form part of the Contract: <b>Environmental Management Plan</b>
<b>GCC 3.1</b>	<p>The language of the contract is <b>English</b>.</p> <p>The law that applies to the Contract is the law of <b>Republic of Armenia</b></p>
<b>GCC 5.1</b>	The Project manager <b>may</b> delegate any of his duties and responsibilities.
<b>GCC 8.1</b>	Schedule of other contractors: <b>N/A</b>
<b>GCC 13.1</b>	<p>The minimum insurance amounts and deductibles shall be:</p> <ul style="list-style-type: none"> <li>(a) <b>For loss or damage to the Works, Plant and Materials:</b> minimum insurance amount shall be 110% of the original Contract price and deductible shall be not more than AMD 500,000..</li> <li>(b) <b>For loss or damage to Equipment:</b> minimum insurance amount shall be AMD 2,000,000 and deductible shall be not more than AMD 100,000.</li> <li>(c) <b>For loss or damage to property (except the Works, Plant, Materials, and Equipment) in connection with Contract</b> minimum insurance amount shall be AMD 10,000,000 and deductible shall be not more than AMD 100,000.</li> <li>(d) <b>For personal injury or death:</b> <ul style="list-style-type: none"> <li>(i) <b>of the Contractor's employees:</b> minimum insurance amount shall be AMD 10,000,000 and deductible is not applicable. <b>of other people:</b> minimum insurance amount shall be AMD 10,000,000 and deductible is not applicable.</li> </ul> </li> </ul>
<b>GCC 14.1</b>	Site Data are: <b>Summary Report on Road Condition described in the Section VIII Drawings</b>
<b>GCC 20.1</b>	The Site Possession Date(s) shall be: <b>The Site Possession Date shall be within 7 (seven) days after the Contract signing and shall be confirmed by the Employer with a written notification to the Contractor</b>
<b>GCC 23.1 &amp; GCC 23.2</b>	Appointing Authority for the Adjudicator: <b>"Permanently Acting Arbitration Court at Chamber of Commerce and Industry of the Republic of</b>

	<b>Armenia”</b>
<b>GCC 24.3</b>	Hourly rate and types of reimbursable expenses to be paid to the Adjudicator: <b>Will be inserted before contract signing</b>
<b>GCC 24.4</b>	Institution whose arbitration procedures shall be used: <b>in accordance with the applicable national legislation.</b>  The place of arbitration shall be: <b>11-Khanjyan str., Yerevan, Armenia</b>
<b>B. Time Control</b>	
<b>GCC 26.1</b>	The Contractor shall submit for approval a Program for the Works within <b>7 days</b> from the date of the Letter of Acceptance.
<b>GCC 26.3</b>	The period between Program updates is <b>30 (thirty)</b> days.  The amount to be withheld for late submission of an updated Program is <b>AMD 50 000 (fifty thousand).</b>
<b>C. Quality Control</b>	
<b>GCC 34.1</b>	The Defects Liability Period is: <b>365 (three hundred sixty-five) days and begins at Completion of the Construction Works.</b> In addition to the activities specified in the GCC 34.1 and 34.2 the required works during the Defects Liability Period include summer routine and winter routine maintenance to be carried out by the Contractor to meet standards of Good Maintenance Level of service for Republican road (administrative type of road) in Guaranteed condition (code of the group - RG (0)) in accordance with the TECHNICAL SPECIFICATION provided that the summer routine maintenance during one year Defects Liability Period is not included in the BoQ and will be not paid by the Employer.
<b>GCC 34.3</b>	<p><i>“GCC 34.3 The following wording should supplement the wording in Clause 33 “Correction of Defects” of General Conditions of Contract forming a new Sub-Clause 34.3:</i></p> <p><i>34.3 Contractor’s Adherence to the Environmental Management Plan (EMP) will be enforced by the Employer as follows:</i></p> <p><i>a) For EMP infringements the Contractor will be given a Notice by the Project Manager to initiate action to remedy the problem within 48 hours. If remediation and restoration has been satisfactorily initiated but could not be completed during this period, the Project Manager shall determine a reasonable extended period to complete the remediation in consultation with the contractor,</i></p> <p><i>b) If within the 48 hour period, in the judgment of the Project Manager, contractor has not initiated any action or the restoration is not being done</i></p>

	<i>properly or in a timely manner during the extended period, the Employer shall be entitled to employ and pay <del>others to carry out the work</del>. The Contractor shall pay to the Employer all costs reasonably incurred by the Employer in remedying the problem."</i>
<b>D. Cost Control</b>	
<b>GCC 44.1</b>	<b>Not applicable</b>
<b>GCC 45.1</b>	The Contract is <b>not</b> subject to price adjustment in accordance with GCC Clause 45, and the following information regarding coefficients does not apply.
<b>GCC 46.1</b>	The proportion of payments retained is: <b>10 (ten) percent</b> .
<b>GCC 47.1</b>	The liquidated damages for the whole of the Works are <b>0.1 percent of the Contract Price</b> per day. The maximum amount of liquidated damages for the whole of the Works is <b>10 (ten) percent</b> of the final Contract Price.
<b>GCC 48.1</b>	<b>Not applicable</b>
<b>GCC 49.1</b>	The Advance Payments shall be: <b>20 (twenty) percent</b> and shall be paid to the Contractor no later than <b>20 (twenty) days after submission of Advance Payment Bank Guarantee</b> .
<b>GCC 50.1</b>	The Performance Security will be in the form of an <b>unconditional Bank Guarantee (on demand)</b> in the amount(s) of <b>10 (ten) percent of the Contract Price</b> .
<b>E. Finishing the Contract</b>	
<b>GCC 56.1</b>	The date by which operating and maintenance manuals are required is <b>not applicable</b> .  The date by which "as built" drawings are required is <b>15 (fifteen) days following completion of the works</b> .
<b>GCC 56.2</b>	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required in GCC 58.1 is <b>AMD 500 000 (five hundred thousand)</b> .
<b>GCC 57.2 (g)</b>	The maximum number of days is: <b>100 (one hundred) days</b> .
<b>GCC 58.1</b>	The percentage to apply to the value of the work not completed, representing the Employer's additional cost for completing the Works, is <b>10 (ten) percent</b> .