



FUNDING FACILITY FOR EXPANDED STABILIZATION

Invitation to Bid

RECONSTRUCTION AND REHABILITATION OF PALESTINIAN BRIDGE IN ANBAR GOVERNORATE, IRAQ

Section 7 – Price Schedule / Financial Bid

September 2017



Empowered lives.
Resilient nations.

TABLE OF CONTENTS

1	GENERAL.....	3
1.1	Submission.....	3
1.2	Soft Copies.....	3
1.3	Price Structure.....	3
1.4	General.....	3
2	PRICE SCHEDULE / BILLS OF QUANTITIES	5
2.1	SURVEYING WORKS	6
2.2	STRUCTURAL WORKS	7
2.3	ASPHALT WORKS	13
2.4	STORM WATER WORKS	15
2.5	ELECTRICAL WORKS.....	16
2.6	OVERAL SUMMARY OF PRICES	18
3	TERMS OF PAYMENT.....	19



1 GENERAL

1.1 Submission

The **Financial Offer must be provided in a separate electronic file** to the e-mail address indicated in the Bid Data Sheet.

All pages shall be **duly signed in BLUE ink. Each page shall be stamped** with the Bidders company stamp / seal.

1.2 Soft Copies

The soft copies issued under separate cover in Word and/or Excel format are issued for the purpose of facilitating bidders in preparation of the Offer however, it remains the Bidders responsibility to ensure that the wording, figures, calculations are in accordance with relevant requirements as stipulated in the relevant sections.

1.3 Price Structure

All prices/rates quoted must be exclusive of all taxes, since the UNDP is exempt from taxes.

The UNDP reserves the right at the time of making the award of contract to **increase or decrease** items in the Bills of Quantity (**with any percentage of the accepted contract value**), if required, without any change in unit price or other terms and conditions.

The unit prices and quantities shall be used for the price analyses and evaluation purposes or any other requirements during the project implementation and shall be fixed and firm for the duration of the contract and any claim for price adjustment will not be entertained. The prices shall be inclusive of all facilities, office running cost, communication, transportation, and company overheadsetc.

The quantities of the items given in the Bill of Quantities (BOQ) are estimated quantities; the exact quantity of items shall be based on the final measurement. It will be the responsibility of the contractor to verify quantities and any additional material requirements. No change in price will be considered after bidding. No compensation will be considered for reduced quantities or items deletion by UNDP.

Bidders are expected to submit realistic prices. Any gross deviations from the prevailing market prices or unethical manipulations to take advantage of the ITB system may cause the bidder to be disqualified.

1.4 General

All works, activities, equipment and materials of any type shall be strictly in accordance with the latest technical standards & specifications of the following which serialized according to the following priorities:

- All materials, equipment, construction activities and all works of any type to be implemented under this contract shall fully comply with the “Technical Standards & Technical Specifications” mentioned in the Technical Specifications (section 3, part 4), Drawings (section 3, part 6) and the Bill of Quantities (section 7).
- All materials, equipment, construction activities and all works of any type to be implemented under this contract shall fully comply with the latest “Technical Standards & Technical Specifications” published by Government of Iraq and applied in Iraq.
- UNDP General Technical Specifications for Building Construction Works”. (Copy is available upon request).
- British Standard (BS), European Standards (EN) and American Society for Testing and Materials (ASTM).
- International Electro technical Commission (IEC).



*Empowered lives.
Resilient nations.*

- Standards (ANSI), Electromagnetic Compatibility (EMC), Deutsches Institute fur Normay (DIN).

For any type of work, material, equipment, tool, fitting, shop drawing, technical data ... etc. required for the scope of work, the contractor must follow the engineer's instructions with getting his approval in advance. The contractor's failure to achieve that shall cause rejecting the work, material, equipment, tool, fitting, shop drawing, technical data ... etc.

No new items shall be added unless otherwise expressly allowed for in the Schedules.

UNDP has the right to increase or decrease for any item quantity or minor modifications to the structures for the same unit price in the BOQ or to omit any item / structure considered not necessary without any compensation to the contractor.

All items include supply, transport and manpower with all machinery requirements to carry out the work.



Empowered lives.
Resilient nations.

2 PRICE SCHEDULE / BILLS OF QUANTITIES

- 1) The rates shall be used for the price analyses and evaluation purposes or any other requirements, shall be fixed and firm for the duration of the contract and shall be inclusive of all facilities, office running cost, communication, transportation, company overheadsetc.
- 2) For any type of work, material, equipment, tool, fitting ... etc. required for the scope of work, the contractor must follow the engineer's instructions with getting his approval in advance. The contractor's failure to achieve that shall cause rejecting the work, material, equipment, tool, fitting ... etc.
- 3) All prices/rates quoted must be exclusive of all taxes, since the UNDP is exempt from taxes.
- 4) The UNDP reserves the right at the time of making the award of contract to increase or decrease items in the Bills of Quantity (with any percentage of the accepted contract value), if required, without any change in unit price or other terms and conditions.
- 5) The unit prices and quantities shall be used for the price analyses and evaluation purposes or any other requirements during the project implementation and shall be fixed and firm for the duration of the contract and any claim for price adjustment will not be entertained. The prices shall be inclusive of all facilities, office running cost, communication, transportation, and company overheadsetc.
- 6) The quantities of the items given in the Bill of Quantities (BOQ) are estimated quantities; the exact quantity of items shall be based on the final measurement. It will be the responsibility of the contractor to verify quantities and any additional material requirements. No change in price will be considered after bidding. No compensation will be considered for reduced quantities or items deletion by UNDP.
- 7) Bidders are expected to submit realistic prices. Any gross deviations from the prevailing market prices or unethical manipulations to take advantage of the ITB system may cause the bidder to be disqualified.
- 8) UNDP has the right to increase or decrease for any item quantity or minor modifications to the structures for the same unit price in the BOQ or to omit any item / structure considered not necessary without any compensation to the contractor.
- 9) All the items are complete with supply, installing, testing, commissioning & training inclusive manpower, workmanship, materials, accessories and all requirements.



Empowered lives.
Resilient nations.

2.1 SURVEYING WORKS

#	Task / Activity	Specs. Ref. No.	Unit	(A) Qty.	(B) Labour Rate US\$	(C) Material Rate US\$	(A*B)+(A*C) Total US\$
1	Contractor shall provide a professional surveying team with high accuracy surveying instruments as: 1-Total station with 02" accuracy (leica TS09 Plus) or equivalent. 2-Digital level with barcode staff and 0.001 accuracy is preferred (leica sprinter 250) or equivalent. The surveying team shall carry out all the necessary survey works started with control points establishment with at least Two permanent points on each side of the bridge made with highest accuracy standards, and then use these points to staking out and checking all elevations and alignments during each stage of the project.		LS	1			
Total Price USD (Carried forward to Summary of Prices) →							



Empowered lives.
Resilient nations.

2.2 STRUCTURAL WORKS

#	Task / Activity	Specs. Ref. No.	Unit	(A) Qty.	(B) Labour Rate US\$	(C) Material Rate US\$	(A*B)+(A*C) Total US\$
1	Supplying materials, equipments, laboratory devices, ovens and sieves and all required for constructing a site laboratory specialized for the tests of the project along its period with providing a specialized team for the laboratory tests, the cost of the team is included here and all the work must be according to technical specification specified for high speed road No.1.	-	LS	1			
2	Supplying materials and equipment for fixing the temporary fence and safety signs. The price shall include cleaning the site area, removing all trees, other obstructions under and above ground, and all garbage and dirt from the site to the specified locations by municipality.	-	LS	1			
3	Supplying caravans for the site and supervised engineers, these caravans must be supplied by electrical and sanitary requirement and contains an air condition. These caravans must be installed in a place assigned by the site engineer. Also a boulders must be spreaded and compacted well to facilitate the movement in this place	-	No.	5			



Empowered lives.
Resilient nations.

#	Task / Activity	Specs. Ref. No.	Unit	(A) Qty.	(B) Labour Rate US\$	(C) Material Rate US\$	(A*B)+(A*C) Total US\$
4	<p>a- Supplying material and required equipments for the following work (the price include all required for making the work in the right process according to specifications and directions of the supervised engineer</p> <p>1- Demolition the super (upper) structure for the destroyed spans of spans 13 and 14 of both bridges and the 5th spans of the southern bridge and the 6th span of the northern bridge with keeping the good girders and handing over the handrails and guardrails and expansion joints to the directorate of Expressway No.1.</p> <p>2- Demolition girders G1, G2 and their related deck slab of the 3rd span of southern bridge, and also G5, G6 and all the deck slab of the 7th span of northern bridge, and girder G6 with its related deck slab of the 7th span of southern bridge</p> <p>3- Demolition deck slab of 2nd span for both bridges and their attachments and take care of the good girders.</p> <p>4- Demolition of columns cap of 6th pier of the northern bridge.</p> <p>5- Demolition of columns caps and columns of the 13th pier for both bridges till reach the pile level.</p> <p>6- Rising and moving all girders of the 2nd spans of the two bridges and 4 undamaged girders of the 7th span of northern bridge to a place specified by the supervised engineer till finishing the works of 1st piers of both bridges and column cap of the 6th pier of the northern bridge then re-installing these girders to their original place. The work includes all equipment and machines and everything required to complete the rising and moving process correctly and according to the specifications and directions of the supervised engineer.</p> <p>b- Moving the rubble out of the working site and in places specified by the supervised engineer.</p> <p>c- Preparing the integrity test for the piles on 13th. span and implementing pile cap (IF REQUIRED) according to the consultant recommendations.</p>	Accord ing the method of contrac tor & directio ns of R.E	LS	1			



Empowered lives.
Resilient nations.

#	Task / Activity	Specs. Ref. No.	Unit	(A) Qty.	(B) Labour Rate US\$	(C) Material Rate US\$	(A*B)+(A*C) Total US\$
5	<p>1-Provide materials and equipment necessary to treatment the damages in abutment, wings and columns which has little damage and not need for chacketing process as following: -</p> <p>A- Remove the concrete cover of the damage Area reaching to the sound concrete with depth not less than 2cm under reinforcement with geometrically shape.</p> <p>B- An injection the cracks if be found using Epoxy Low Viscosity materials according to the method that will suggest by the contractor to gain approval by consultant.</p> <p>C- Cleaning the reinforcement and replace the defect with new reinforcement in the same diameters and welded on the original parts in overlapping not less than (8*D.).</p> <p>D- Cleaning the areas with a good method and remove the loss materials and particles then place (Depend on the depth of defect) in EMACO or equivalent or B25 and use material to bond the old concrete with the new concrete the price including all that necessary to do according to the general specifications for Roads & Bridges & and the Technical sheet of epoxy materials which would be used and technical specification specified for high speed road No.1.</p> <p>2-Supply all means, material, and equipments required for repairing the concrete columns in pier 2 of southern bridge and pier 7 of northern bridge with B35 concrete and steel reinforcement. The work shall include using steel molds and vibratores according to the drawings, specifications and as instructed by the supervising engineer</p>	Accord ing the method of contrac tor & directio ns of R.E	LS	1			
6	Provide material and equipment to place reinforced concrete for columns of piers P13 with diam. 1.4m, the concrete class B35 including reinforcing steel and frame and all incidentals according to the drawing and technical specification specified for high speed road No.1.	Specifi cation of Express way No.1, Part Five	m ³	65			



Empowered lives.
Resilient nations.

#	Task / Activity	Specs. Ref. No.	Unit	(A) Qty.	(B) Labour Rate US\$	(C) Material Rate US\$	(A*B)+(A*C) Total US\$
7	Provide material and equipment to place concrete class B25 for cross head beam of piers 13 for both bridges and pier 6 for northern bridge including reinforcing steel, forms and all incidentals. According to the drawings and technical specification specified for high speed road No.1.	Specifi cation of Express way No.1, Part Five	m ³	350			
8	Provide and place approved reinforced elastomeric bearings, type) 250/74 (mm, including reinforced grout pads with compressive strength not less than (55MPa) and all incidentals. According to the drawing and technical specification specified for high speed road No.1.	Specifi cation of Express way No.1, Part Five	No.	300			
9	Provide and place reinforced concrete girders, concrete class B35 for the superstructure, including reinforcing steel , and all incidentals according to the drawing and technical specification specified for high speed road No.1.	Specifi cation of Express way No.1, Part Five	No.	65			
10	Provide and place reinforced concrete class B25, cast in situ, for the deck slabs and diaphragms, including reinforcing steel, form work, preformed filler for the hinge slabs and all incidentals. According to the drawing and technical specification specified for high speed road No.1.	Specifi cation of Express way No.1, Part Five	m ³	1,810			



Empowered lives.
Resilient nations.

#	Task / Activity	Specs. Ref. No.	Unit	(A) Qty.	(B) Labour Rate US\$	(C) Material Rate US\$	(A*B)+(A*C) Total US\$
11	Provide and place reinforced concrete class B25 for the sidewalks including reinforcing steel, prefabricated reinforced fascia elements, cable ducts, access openings if required in the superstructure, cable pits behind the abutments, formwork, preformed filler and all incidentals, according to the drawings and the requirements of the technical specification specified for high speed road No.1.	Specifi cation of Express way No.1, Part Five	m ³	450			
12	Provide and place waterproof expansion joint seals, type T100 For A01 and A02 within the carriageway including all incidentals. According to the drawing and technical specification specified for high speed road No.1.	Specifi cation of Express way No.1, Part Five	Meter	62			
13	Provide and place waterproof expansion joint seals, type 160 for P2, P5, P8 and P11 within the carriageway including all incidentals. According to the drawing and technical specification specified for high speed road No.1.	Specifi cation of Express way No.1, Part Five	Meter	155			
14	Provide and place galvanized steel bridge hand railings including all incidentals according to the drawing and specification.	Specifi cation of Express way No.1, Part Five	Meter	1,000			



Empowered lives.
Resilient nations.

#	Task / Activity	Specs. Ref. No.	Unit	(A) Qty.	(B) Labour Rate US\$	(C) Material Rate US\$	(A*B)+(A*C) Total US\$
15	Provide and place galvanized steel bridge gird railings including all incidentals according to the drawing and specification.	Specifi cation of Express way No.1, Part Five	Meter	900			
Total Price USD (Carried forward to Summary of Prices) →							



Empowered lives.
Resilient nations.

2.3 ASPHALT WORKS

#	Task / Activity	Specs. Ref. No.	Unit	(A) Qty.	(B) Labour Rate US\$	(C) Material Rate US\$	(A*B)+(A*C) Total US\$
1	Asphalt Paving as per specification. Preparing for paving with asphalt course 8 cm (4 cm/layer) with compaction not less than 98% is according to the specifications of expressway no.1 which is should be considered by contractor and detailed design						
1.1	Milling for existing asphalt should be done with 8 cm before paving new layer ,All works must be done according to the structural drawings where no need to demolish the existing asphalt.		m ²	9,882			
1.2	Tack coat	Specifi cation of Express way No.1 Part Three	m ²	15,372			
1.3	4 cm of thick bituminous surface course	Specifi cation of Express way No.1 Part Three	m ²	15,372			
1.4	Tack coat	Specifi cation of Express way No.1 Part Three	m ²	15,372			



Empowered lives.
Resilient nations.

#	Task / Activity	Specs. Ref. No.	Unit	(A) Qty.	(B) Labour Rate US\$	(C) Material Rate US\$	(A*B)+(A*C) Total US\$
1.5	4 cm of thick bituminous surface course	Specifi cation of Express way No.1 Part Three	m ²	15,372			
2	Painting the Paved surface related to Drawings and specifications						
2.1	Provide and place lines of Thermoplastic reflecting materials, width of line 20cm, and length 9 m with 9 m intervals. 8 mm thick, 6 mm placed into and 2 mm projecting from the paved surface, including all material, labour and incidentals, according the detailed drawings and specifications.	Specifi cation of Express way No.1 Part Six	Meter	1,020			
2.2	As item 2-6 but continuous lines at the edge of carriageway and emergency standing strip, width 30 cm, 3 mm thick, placed on top of the paved surface.	Specifi cation of Express way No.1 Part Six	Meter	2,040			
	Total Price USD (Carried forward to Summary of Prices) →						



Empowered lives.
Resilient nations.

2.4 STORM WATER WORKS

#	Task / Activity	Specs. Ref. No.	Unit	(A) Qty.	(B) Labour Rate US\$	(C) Material Rate US\$	(A*B)+(A*C) Total US\$
1	Provide and place cast iron gullies for damage spans of bridge with covers and drainage pipe the price including cleaning all bridge drainage unit system and check points and all that necessary to do according the drawings and specifications and directions of R.E.	Specifi cation of Express way No.1 Part Four	No.	104			
Total Price USD (Carried forward to Summary of Prices) →							



Empowered lives.
Resilient nations.

2.5 ELECTRICAL WORKS

#	Task / Activity	Specs. Ref. No.	Unit	(A) Qty.	(B) Labour Rate US\$	(C) Material Rate US\$	(A*B)+(A*C) Total US\$
1	Outdoor Package Unit Substation Provisional Item: Valid only in case the contractor investigated the site and found that the existing outdoor package substation unit is not functional. Supply and installation of outdoor package substation comprises 2 sections: - Ring main unit, 25 kA short circuit rating, comprising; two switches disconnector for the incomings 400 A and fused switch disconnector 200A for the outgoing. complete with all auxiliaries, instrument transformers, DC system, protections, interface ...etc - Oil type distribution transformer ,three phase, 50Hz, 50 KVA, 11/0.38 kV	Specifi cation of Express way No.1 Part Six	No.	1			
2	Exterior Lighting Outdoor road lighting luminaries with 290w LED mounted of 14m height pole, including; LV feeders and cables, cable trenches and duct banks at road crossings, columns completed (with luminaries, brackets & luminaries support) and all necessary builder's including concrete bases and fixings, ducts, excavation for bases and backfilling type S1	Specifi cation of Express way No.1 Part Six	No.	26			
3	Feeder Pillar Supply and installation of outdoor feeder pillars/distribution pillars complete with the necessary photo cells and timer controls. With all control contactor and relays. Item includes the supports bases and accessories including the special anchor for installation above green areas	Specifi cation of Express way No.1 Part Six	No.	1			



Empowered lives.
Resilient nations.

#	Task / Activity	Specs. Ref. No.	Unit	(A) Qty.	(B) Labour Rate US\$	(C) Material Rate US\$	(A*B)+(A*C) Total US\$
4	LV Cables Multi core cables, Copper conductors, XLPE insulated Steel wire armored and PVC sheathed, to be laid directly in ground (0.6 Kv/ 1Kv)CU/XLPE/SWA/PVCItem Includes the protective earth, protective tiles and warning taps.4C x 240 mm2 length is indicative based on the final location of outdoor substation	Specifi cation of Express way No.1 Part Six	Item	1			
Total Price USD (Carried forward to Summary of Prices) →							



Empowered lives.
Resilient nations.

2.6 OVERAL SUMMARY OF PRICES

The prices shall be shall fixed and firm for the duration of the contract and be inclusive of all facilities, office running cost, communication, transportationetc. All prices/rates quoted must be exclusive of all taxes, since the UNDP is exempt from taxes.

Totals brought forward from “Breakdown of Prices”

#	Item / Description	Total (US)
2.6.1	SURVEYING WORKS	
2.6.2	STRUCTURAL WORKS	
2.6.3	ASPHALT WORKS	
2.6.4	STORM WATER WORKS	
2.6.5	ELECTRICAL WORKS	
2.6.6	GRAND TOTAL OF PRICES →	

Authorized Signature: *[In full and initials]* _____

Date: *[Day/Month/Year]* _____

Company
Stamp

No deletion or modification may be made in this form. Any such deletion or modification may lead to the rejection of the Proposal



Empowered lives.
Resilient nations.

3 **TERMS OF PAYMENT**

UNDP shall effect payments after acceptance and upon achievement of the corresponding milestones and in the following manner and amounts:

A deduction of percentage (10%) of each progress claim will be subjected on the approved interim payments as retention. The progress payments will be done as per the following basis.

#	Item / Description / Milestone	Payment Portion
1	REHABILITATION & CONSTRUCTION WORKS	
1.1	Monthly progress payment of actual executed works based on the contracted BOQ unit rates.	90%
1.2	Upon Certificate of Final Completion (Completion of Defects Liability Period) inclusive executing the outstanding list (snag list) if any.	10%

Note:

Requirements for Interim Payments are as the following:

- 1) Approved Requests for Inspections from the supervision engineer.
- 2) Approved detailed quantities sheets (take-off sheets) from the supervision engineer.
- 3) Approval from UNDP's representative on the whole process.

Authorized Signature: *[In full and initials]* _____

Date: *[Day/Month/Year]* _____

Company
Stamp

No deletion or modification may be made in this form. Any such deletion or modification may lead to the rejection of the Bid.

End of Section