



## **FUNDING FACILITY FOR EXPANDED STABILIZATION**

# **Invitation to Bid**

## **RECONSTRUCTION AND REHABILITATION OF JAPANESE BRIDGE IN ANBAR GOVERNORATE, IRAQ**

### **Section 7 – Price Schedule / Financial Bid**

September 2017



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## 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 overheads ....etc.

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).



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- 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.



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## **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 overheads ....etc.
- 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 overheads ....etc.
- 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.



## 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 point's 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) →							



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## 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.	-	L.S	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.	-	L.S	1			
3	Supplying caravans for the site and supervised engineers, these caravans must be supplied by electrical and sanitary requirement and contains an air conditions. 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			



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#	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 equipment 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 1,2 and3 of both bridges with all their attachments.</p> <p>2- Demolition of first 4 girders of 4th span of northern bridge with their attachments taking into account keeping the other girders with their attachments safe.</p> <p>3- Demolition the deck slab of the 6th span of the northern bridge with all its attachments taking into account keeping the girders safe.</p> <p>4- Demolition of columns caps and columns of the 1st and 2nd pier for both bridges and 5th pier of southern bridge till reach the pile level.</p> <p>5- Rising and moving all girders of the 6th spans of northern bridge to a place specified by the supervised engineer to repair the rubber and concrete pads 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 a place specified by the supervised engineer.</p> <p>c- Preparing the integrity test 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			





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#	Task / Activity	Specs. Ref. No.	Unit	(A) Qty.	(B) Labour Rate US\$	(C) Material Rate US\$	(A*B)+(A*C) Total US\$
5	Provide materials and equipment necessary to treatment the damages in pile cap in abutment and piers, abutment, piers, concrete pads, and sound girders by: - Removal the concrete cover of the damage Area reaching to the sound concrete and the depth not less than 2cm under reinforcement with geometrically regular. An injection the cracks if be found using Epoxy Low Viscosity materials according to the method that will suggest from the contractor and it subjected to the employer approval. 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.). 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.	Specifi cation of Express way No.1, Part Five	m <sup>2</sup>	50			
6	Provide material and equipment to place reinforced concrete for columns of piers P1,P2 and P5 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 <sup>3</sup>	170			
7	Provide material and equipment to place concrete class B25 for cross head beam 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 <sup>3</sup>	420			



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#	Task / Activity	Specs. Ref. No.	Unit	(A) Qty.	(B) Labour Rate US\$	(C) Material Rate US\$	(A*B)+(A*C) Total US\$
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.	118			
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 <sup>3</sup>	1,560			
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 <sup>3</sup>	375			



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#	Task / Activity	Specs. Ref. No.	Unit	(A) Qty.	(B) Labour Rate US\$	(C) Material Rate US\$	(A*B)+(A*C) Total US\$
12	Provide and place waterproof expansion joint seals, type T100 for A01, 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 gor P3 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	31			
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			
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			



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#	Task / Activity	Specs. Ref. No.	Unit	(A) Qty.	(B) Labour Rate US\$	(C) Material Rate US\$	(A*B)+(A*C) Total US\$
	Total Price USD (Carried forward to Summary of Prices) ➔						



## 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	Tack coat	Specifi cation of Express way No.1 Part Three	m <sup>2</sup>	7,720			
1.2	4 cm of thick bituminous surface course	Specifi cation of Express way No.1 Part Three	m <sup>2</sup>	7,720			
1.3	tack coat	Specifi cation of Express way No.1 Part Three	m <sup>2</sup>	7,720			



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#	Task / Activity	Specs. Ref. No.	Unit	(A) Qty.	(B) Labour Rate US\$	(C) Material Rate US\$	(A*B)+(A*C) Total US\$
1.4	4 cm of thick bituminous surface course	Specifi cation of Express way No.1 Part Three	m <sup>2</sup>	7,720			
2	Painting the Paved surface related to Drawings and specifications						
2.1	Provide and place lines of Thermoplastic reflecting materials, width of line 20cm, 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	856			
2.2	As item 2-5 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	1,712			
	<b>Total Price USD (Carried forward to Summary of Prices) →</b>						



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## 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.	38			
Total Price USD (Carried forward to Summary of Prices) →							



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## 2.5 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, transportation ....etc. 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)
2.5.1	SURVEYING WORKS	
2.5.2	STRUCTURAL WORKS	
2.5.3	ASPHALT WORKS	
2.5.4	STORM WATER WORKS	
<b>2.5.5</b>	<b>GRAND TOTAL OF PRICES →</b>	

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*





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### 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
<b>1</b>	<b>REHABILITATION &amp; CONSTRUCTION WORKS</b>	
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

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**End of Section**