



# Madhya Bhotekoshi Jalavidyut Company Limited

## Middle Bhotekoshi Hydroelectric Project (102MW)

### BIDDING DOCUMENTS

For

**Design, Supply, Construction, Testing and Commissioning of  
Single Circuit 220kV Transmission Line from Middle Bhotekoshi  
Hydroelectric Project to Barhabise Sub-Station**

**International Competitive Bidding (ICB)**

**Single Stage Two Envelope Bidding Procedure**

**Contract Identification No: MBJCL/MBKHEP-074/75-TL-01**

**Volume III of III**

*[Should be submitted SEPARATELY in accordance with ITB Sub-Clause 23.4]*

Date of Notice Publication:	22 January 2018	
Last Date/Time of Purchasing:	05 February 2018	during Office Hour
Last Date/Time of Submission:	06 February 2018	12:00 Hour
Date and Time of Bid Opening:	06 February 2018	14:00 Hour

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**Madhya Bhotekoshi Jalavidyut Company Limited**

**Madhya Bhotekoshi Hydroelectric Project**

**Maharajgunj, Kathmandu, Nepal**

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Issued to: M/S .....

January 2018  
Kathmandu, Nepal

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## PART I BIDDING PROCEDURES

### Section I Instructions to Bidders (ITB) Vol I

This section specifies the course of actions to be taken by Bidders in the preparation and submission of their Bids following a Two-Stage bidding procedure. Information is also provided on the submission, opening, and evaluation of bids and on the award of contract.

### Section II Bid Data Sheet (BDS) Vol I

This section consists of provisions that are specific to each procurement and supplement the information or requirements included in Section 1 - Instructions to Bidders.

### Section III Evaluation and Qualification Criteria (EQC) Vol I

This section contains all the criteria that the Employer shall use to evaluate bids and qualify Bidders. In accordance with ITB 25, ITB 48 and ITB 50, 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).

### Section IV Bidding Forms (BDF) Vol I/III

This Section contains the forms which are to be completed by the Bidder and submitted as part of his Bid.

## PART II REQUIREMENTS

### Section V Works Requirements (WRQ) Vol I/II

This Section contains the Specification, the Drawings, and supplementary information that describe the plant and services to be procured.

### Section VI Preamble to the Bill of Quantities (BOQ) Vol III

This Section contains the price schedules, Bill of Quantities of the plant and services to be procured.

## PART III CONDITIONS OF CONTRACT AND CONTRACT FORMS

### Section VII General Conditions of Contract (GCC) Vol I

This Section contains the general clauses to be applied in all contracts. These Conditions are subject to the variations and additions set out in Section VIII (Special Conditions of Contract).

### Section VIII Special Conditions of Contract (SCC) Vol I

This Section supplements the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC. The clause number of the SCC is the corresponding clause number of the GCC.

### Section IX Contract Forms (COF) Vol I

This Section contains the Letter of Acceptance, the Contract Agreement and Appendices to the Contract Agreement which, once completed, will form part of the Contract.

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# Section IV

## Bidding Forms (Price Bid and Schedules)

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## Section IV Bidding Forms

### B. Letter of Price Bid

**The Bidder must accomplish the Letter of Price Bid in its letterhead clearly showing the Bidder's complete name and address.**

Date: \_\_\_\_\_

Name of the Bid: \_\_\_\_\_

Invitation for Bid No.: \_\_\_\_\_

To:

**Madhya Bhotekoshi Jalavidyut Company Limited**

**Madhya Bhotekoshi Hydroelectric Project**

**Maharajgunj, Kathmandu, Nepal**

We, the undersigned, declare that:

- a. We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB) Clause 8;
- b. We offer to design, manufacture, test, deliver, install, pre-commission and commission in conformity with the Bidding Document the following Plant and Services .....
- c. The total price of our Bid, excluding any discounts offered in item (d) below is .....
- d. The discounts offered and the methodology for their application are: .....
- e. Our Bid shall be valid for a period of [insert validity period as specified in ITB 18.1] days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- f. If our bid is accepted, we commit to obtain a performance security in accordance with the Bidding Document;
- g. We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- h. We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive;
- i. We agree to permit the Employer/DP or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by the Employer; and
- j. If awarded the contract, the person named below shall act as our Representative:

Name/Address of the Bidder: .....

Name of the person duly authorized to sign the Bid on behalf of the Bidder: .....

Title of the person signing the Bid: .....

Signature of the person named above: .....

## C. Price Schedules

### PREAMBLE

#### General

1. The Price Schedules are divided into separate Schedules as follows:  
Schedule No. 1: Plant (Including Mandatory Spare Parts) Supplied from Abroad  
Schedule No. 2: Plant (Including Mandatory Spare Parts) Supplied from within Nepal  
Schedule No. 3: Design services and Prototype testing  
Schedule No. 4: Construction and Installation Services  
Schedule No. 5: Grand Summary
2. The Schedules do not generally give a full description of the plant to be supplied and the services to be performed under each item. Bidders shall be deemed to have read the Employer's Requirements and other sections of the Bidding Document and reviewed the Drawings to ascertain the full scope of the requirements included in each item prior to filling in the rates and prices. The entered rates and prices shall be deemed to cover the full scope as aforesaid, including overheads and profit.
3. If bidders are unclear or uncertain as to the scope of any item, they shall seek clarification in accordance with ITB 7 prior to submitting their bid.

#### Pricing

4. Prices shall be filled in indelible ink, and any alterations necessary due to errors, etc., shall be initialed by the Bidder.  
  
As specified in the Bid Data Sheet and Special Conditions of Contract, prices shall be fixed and firm for the duration of the Contract, or prices shall be subject to adjustment in accordance with the corresponding Appendix (Price Adjustment) to the Contract Agreement.
5. Bid prices shall be quoted in the manner indicated and in the currencies specified in the Instructions to Bidders in the Bidding Document.  
  
For each item, bidders shall complete each appropriate column in the respective Schedules, giving the price breakdown as indicated in the Schedules.  
  
Prices given in the Schedules against each item shall be for the scope covered by that item as detailed in Section 6 (Employer's Requirements) or elsewhere in the Bidding Document.
6. Payments will be made to the Contractor in the currency or currencies indicated under each respective item.
7. When requested by the Employer for the purposes of making payments or part payments, valuing variations or evaluating claims, or for such other purposes as the Employer may reasonably require, the Contractor shall provide the Employer with a breakdown of any composite or lump sum items included in the Schedules.

**SCHEDULES OF RATES AND PRICES****Schedule No. 1: Plant (Including Mandatory Spare Parts) Supplied from Abroad**

Item no	Description	Country of Origin	Estimated		CIP Nepal Border (Excluding Taxes and Duties)		Insurance, Clearing, Forwarding and Transportation to site		Total Excluding Taxes and Duties	
					Foreign currency		Local Currency		Foreign Currency	Local Currency
			Qty	Unit	Rate	Amount	Rate	Amount		
<b>A</b>	<b>Design, fabrication, galvanizing &amp; supply of following towers &amp; tower/leg extensions complete with step bolts, hangers, D-shackles, pack washer, bolts &amp; nuts, additional galvanized steel works etc. but excluding tower accessories such as danger plates, number plates, phase plates, anti-climbing devices</b>									
1	Tension Tower D-Type Single Circuit		13	Nos						
<b>B</b>	<b>Design, fabrication &amp; Supply of Tower Earthing materials complete with necessary bolts, nuts and washers with required accessories (complete set)</b>									
<b>C</b>	<b>Supply of following Tower Accessories</b>									
1	Danger Plate		14	Nos						
2	Number Plate		14	Nos						
3	Phase Plate (3 nos per tower)		14	Set						
4	Anti-Climbing Device (4 nos per tower)		14	Set						
<b>D</b>	<b>Supply of Line Materials and Accessories</b>									
1	ACSR Bison Conductor		KM	13.3						
2	Composite Long Rod Insulator with necessary arcing ring and other accessories all complete		Set	90						

**Schedule No. 1: Plant (Including Mandatory Spare Parts) Supplied from Abroad**

Item no	Description	Country of Origin	Estimated		CIP Nepal Border (Excluding Taxes and Duties)		Insurance, Clearing, Forwarding and Transportation to site		Total Excluding Taxes and Duties	
			Qty	Unit	Foreign currency		Local Currency		Foreign Currency	Local Currency
					Rate	Amount	Rate	Amount		
3	<b>Jumper Set with pilot insulators, armour rod &amp; suitable counter weight complete with all accessories for a tower</b>		Set	16						
4	<b>Hardware Fittings all complete as per design's requirements (1 Set per tower)</b>		Set	14						
5	<b>Conductor and Earthwire Accessories</b>									
	- Mid Span compression joint for ACSR Bison conductor		Nos	24						
	- Repair Sleeve		Nos	24						
	- Vibration Damper		Nos	154						
E	Supply of Fiber Cable and Accessories									
1	24 Fiber (DWDM) OPGW fiber optic cable		KM	5.3						
2	Installation Hardware set for above 24 Fiber OPGW Fiber Optic cabling including all cable fittings & accessories									
	- Suspension Preformed Assembly		Sets	7						
	- Dead End Assembly		Sets	4						
	- Tension Preformed Assembly (For Joint Box Location)		Sets	8						
	- Special Fitting Assembly at Suspension Tower (For Joint Box Locations)		Sets	4						

**Schedule No. 1: Plant (Including Mandatory Spare Parts) Supplied from Abroad**

Item no	Description	Country of Origin	Estimated		CIP Nepal Border (Excluding Taxes and Duties)		Insurance, Clearing, Forwarding and Transportation to site		Total Excluding Taxes and Duties	
					Foreign currency		Local Currency		Foreign Currency	Local Currency
			Qty	Unit	Rate	Amount	Rate	Amount		
	- Vibration Damper		Sets	40						
	- Down Lead Clamp Assembly		Sets	16						
3	Joint Box (24 Fiber)		Nos	3						
4	FODP 48F: Indoor Type, rack mounted with FCPC coupling & pig tails (5m each)		Nos	2						
5	Fiber Optic Approach Cable									
	- 24 Fiber (DWSM) optic cable		KM	1.5						
	- Installation Hardware set		Sets	3						
F	Supply of Required Earthwire (Galvanized Steel Wire)		Lump Sum							
<b>Sub-total (E)</b>										
<b>Total to be carried to Schedule 5: Grand Summary</b>										

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Name and Signature of Signatory

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Name of Bidder

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Seal of Bidder



**Schedule No. 2: Plant (Including Mandatory Spare Parts) Supplied from within Nepal**

Item no	Description	Estimated		Ex-works Price (Excluding Taxes and Duties)		Inland Transportation to site		Total Excluding Taxes and Duties
		Qty	Unit	Rate	Amount	Rate	Amount	
A	Design, fabrication, galvanizing & supply of following towers & tower/leg extensions complete with step bolts, hangers, D-shackles, pack washer, bolts & nuts, additional galvanized steel works etc. but excluding tower accessories such as danger plates, number plates, phase plates, anti-climbing devices							
1	Tension Tower D-Type Single Circuit	13	Nos					
B	Design, fabrication & Supply of Tower Earthing materials with required accessories (complete set)							
C	Supply of following Tower Accessories							
1	Danger Plate	14	Nos					
2	Number Plate	14	Nos					
3	Phase Plate (3 nos per tower)	14	Set					
4	Anti-Climbing Device (4 nos per tower)	14	Set					
D	Supply of Line Materials and Accessories							
1	ACSR Bison Conductor	KM	13.3					
2	Composite Long Rod Insulator with necessary arcing ring and other accessories all complete	Set	90					
3	Jumper Set with pilot insulators, armour rod & suitable counter weight complete with all accessories for a tower	Set	16					
4	Hardware Fittings all complete as per design's requirements (1 Set per tower)	Set	14					
5	Conductor and Earthwire Accessories							
	- Mid Span compression joint for ACSR Bison conductor	Nos	24					
	- Repair Sleeve	Nos	24					
	- Vibration Damper	Nos	154					

**Schedule No. 2: Plant (Including Mandatory Spare Parts) Supplied from within Nepal**

Item no	Description	Estimated		Ex-works Price (Excluding Taxes and Duties)		Inland Transportation to site		Total Excluding Taxes and Duties
		Qty	Unit	Rate	Amount	Rate	Amount	
E	Supply of Fiber Cable and Accessories							
1	24 Fiber (DWSM) OPGW fiber optic cable	KM	5.3					
2	Installation Hardware set for above 24 Fiber OPGW Fiber Optic cabling including all cable fittings & accessories							
	- Suspension Preformed Assembly	Sets	7					
	- Dead End Assembly	Sets	4					
	- Tension Preformed Assembly (For Joint Box Location)	Sets	8					
	- Special Fitting Assembly at Suspension Tower (For Joint Box Locations)	Sets	4					
	- Vibration Damper	Sets	40					
	- Down Lead Clamp Assembly	Sets	16					
3	Joint Box (24 Fiber)	Nos	3					
4	FODP 48F: Indoor Type, rack mounted with FCPC coupling & pig tails (5m each)	Nos	2					
5	Fiber Optic Approach Cable							
	- 24 Fiber (DWSM) optic cable	KM	1.5					
	- Installation Hardware set	Sets	3					
F	Supply of Required Earthwire (Galvanized Steel Wire)	Lump Sum						
<b>Total to be carried to Schedule 5: Grand Summary</b>								

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Name and Signature of Signatory

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Name of Bidder

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Seal of Bidder

**Schedule No. 3: Design services and Prototype testing**

Item	Item Description	Estimated		Foreign Currency		Local Currency	
		Quantity	Unit	Unit Rate	Amount	Unit Rate	Amount
1	Design Service of Tower Type SD	1	Lot				
2	Prototype Assembly and Testing of Towers with +24m Body Extension at various Design Loads and then up to destruction including the cost of materials after allowing rebate for scrap value of steel of destroyed tower.	1	Lot				
Total to be carried to Schedule 5: Grand Summary							

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Name and Signature of Signatory

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Name of Bidder

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Seal of Bidder

## Schedule No. 4: Construction and Installation Services

S. No.	Item Description	Unit	Qty	Foreign Currency		Local Currency	
				Unit Rate	Amount	Unit Rate	Amount
A	Survey Check survey, Detailed survey including route alignment, profiling, tower spotting all complete	KM	4				
B	Geotechnical Investigation including all associated works	Loc.	12				
C	Measurement of Soil resistivity / Ground Resistance	Loc.	12				
D	Benching for maintaining Sag along the transmission line						
1	All kind of soil except FR & HR	m <sup>3</sup>	50				
2	Fissured Rock	m <sup>3</sup>	25				
3	Hard Rock	m <sup>3</sup>	25				
<b>Sub-total: I (A+B+C+D)</b>							

S. No.	Item Description	Unit	Qty per tower	Total Qty	Foreign Currency		Local Currency		
					Unit Rate	Amount	Unit Rate	Amount	
E	All the complete work associated with construction of tower foundations including stub setting for tower type SD of all extensions								
1	Normal Dry soil	4	Nos						
a	Excavation	m <sup>3</sup>	160	640					
b	M20 Lean Concrete Nominal Mix 1:1.5:3	m <sup>3</sup>	35	140					
c	M10 Lean Concrete Nominal Mix 1:3:4	m <sup>3</sup>	6	24					
d	Supply and placement of Reinforcement Steel	kg	4,000	16,000					
<b>Sub-total (E1)</b>									

## Schedule No. 4: Construction and Installation Services

S. No.	Item Description	Unit	Qty per tower	Total Qty	Foreign Currency		Local Currency	
					Unit Rate	Amount	Unit Rate	Amount
E	<b>All the complete work associated with construction of tower foundations including stub setting for tower type SD of all extensions</b>							
2	<b>Dry Fissured Rock</b>	<b>3</b>	<b>Nos</b>					
a	Excavation	m <sup>3</sup>	210	630				
b	M20 Lean Concrete Nominal Mix 1:1.5:3	m <sup>3</sup>	66	198				
c	M10 Lean Concrete Nominal Mix 1:3:4	m <sup>3</sup>	7	21				
d	Supply and placement of Reinforcement Steel	kg	8,000	24,000				
3	<b>Hard Rock Type</b>	<b>5</b>	<b>Nos</b>					
a	Excavation	m <sup>3</sup>	50	250				
b	M20 Lean Concrete Nominal Mix 1:1.5:3	m <sup>3</sup>	20	100				
c	M10 Lean Concrete Nominal Mix 1:3:4	m <sup>3</sup>	-	-				
d	Supply and placement of Reinforcement Steel	kg	2,300	11,500				
<b>Sub-total (E2+E3)</b>								
<b>Sub-total: II (E1+E2+E3)</b>								

S. No.	Item Description	Unit	Qty	Foreign Currency		Local Currency	
				Unit Rate	Amount	Unit Rate	Amount
F	<b>Erection of following types of towers &amp; tower/leg extensions complete with step bolts, hangers, D-shackles, pack washer, bolts &amp; nuts, additional galvanized steel works etc. but excluding tower accessories such as danger plates, number plates, phase plates, anti-climbing devices</b>						
	Tension Tower SD	Nos.	12				
G	<b>Installation of Earthing of towers all complete</b>	Set	12				
<b>Sub-total: III (F+G)</b>							

## Schedule No. 4: Construction and Installation Services

S. No.	Item Description	Unit	Qty	Foreign Currency		Local Currency	
				Unit Rate	Amount	Unit Rate	Amount
H	Installation of tower accessories such as danger plates, number plates, phase plates, anti-climbing devices, etc. all complete	Set	12				
I	Protection of tower footing						
1	Random rubble stone masonry including excavation (1:5 cement concrete)	m <sup>3</sup>	300				
2	Stone bound in galvanizing wire netting including excavation	m <sup>3</sup>	100				
3	Back filling and levelling of volumes enclosed by revetment	m <sup>3</sup>	300				
4	M15 Conc. Nominal Mix 1:2:4 for top seal cover	m <sup>3</sup>	50				
J	Installation of insulator strings complete with arcing horns & necessary hardware, stringing of Bison conductor including fixing of conductor accessories etc. all complete	KM	12.3				
K	Stringing of 24 Fiber (DWSM) OPGW fiber optic cable including Installation of vibration damper, intermediate splice boxes, terminal splice boxes, Joint boxes, FODP 48F, Fiber Optic approach cable all complete	Lot	1				
<b>Sub-total: IV (F+G+H+I+J+K)</b>							
Total to be carried to Schedule 5: Grand Summary (Sub-total I+II+III+IV)							

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Name and Signature of Signatory

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Name of Bidder

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Seal of Bidder

Schedule No. 5: Grand Summary

Price Schedule	Description	Total Amount	
		Foreign Currency	Local Currency
1	Plant (Including Mandatory Spare Parts) Supplied from Abroad		
2	Plant (Including Mandatory Spare Parts) Supplied from within Nepal		
3	Design services and Prototype testing		
4	Construction and Installation Services		
	<b>Grand Total</b>		

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Name and Signature of Signatory

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Name of Bidder

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Seal of Bidder