Bill of Quantities

Bidder's Name and Address:

CB No:

		Country			pplied from A Unit	Price	Total CIP Border	
Sl. No.	Item Description	of origin	Unit	Qty.	Currency#	CIP-Nepal Border	Price Total	Remarks
1	2	3	4	5	6	7	8 = 5 x 7	9
1	Part: I ^{\$\$} Supply of Towers For 220KV T/L,including bolt and nuts, hangers, U-bolts complete							
1.1	Tower Type DA							
a	Basic Tower		Nos.	1				
b	DA -4.5M Extension.		Nos.					
С	DA -3M Extension.		Nos.					
d	DA -1.5M Extension.		Nos.					
е	DA +/-OM Extension.		Nos.	4				
f	DA +1.5M Extension.		Nos.					
g	DA +3M Extension.		Nos.					
h	DA +4.5M Extension.		Nos.					
i	DA +6M Extension.		Nos.					
j	DA+7.5M Extension.		Nos.					
k	DA+9 M Extension.		Nos.					
1.2	Tower Type DB							
а	Basic Tower		Nos.	3				
b	DB -4.5M Extension.		Nos.					
С	DB -3M Extension.		Nos.					
d	DB -1.5M Extension.		Nos.					
е	DB +/-OM Extension.		Nos.	12				
f	DB +1.5M Extension.		Nos.					
g	DB +3M Extension.		Nos.					
h	DB +4.5M Extension.		Nos.					
i	DB +6M Extension.		Nos.					
j	DB+7.5M Extension.		Nos.					
k	DB+9 M Extension.		Nos.					
1.3	Tower Type DC							
a .	Basic Tower		Nos.					
b	DC -4.5M Extension.		Nos.					
C	DC -3M Extension.		Nos.					
d	DC -1.5M Extension.		Nos.					
e	DC +/-OM Extension.	 	Nos.					1
f	DC +1.5M Extension.		Nos.					
g h	DC +3M Extension. DC +4.5M Extension.	 	Nos.					
h i								
i	DC +6M Extension. DC+7.5M Extension.	 	Nos.					
k	DC+9 M Extension.	 	Nos.					
1.4	Tower Type DD/DDE	 	1103.					<u> </u>
a a	Basic Tower	 	Nos.	2				
b b	DD -4.5M Extension.	 	Nos.					
С	DD -3M Extension.		Nos.					
d	DD -1.5M Extension.		Nos.					
e	DD +/-0M Extension.		Nos.	8				
f	DD +1.5M Extension.		Nos.					
g	DD +3M Extension.		Nos.					
h	DD +4.5M Extension.		Nos.					
i	DD +6M Extension.		Nos.					
j	DD+7.5M Extension.		Nos.					

1			Country	Unit	04	Unit	Price	Total CIP Border Price	
1	lo.	Item Description		Unit	Qty.	Currency#			Remarks
Part II 550		2	3	4	5	6		8 = 5 x 7	9
1 of Missing Tower Parts For 220kV T/L Including bot and nuts, hangers, U-botts complete 1.1 Tower Type DA a Basic Tower including extensions	DD+9	+9 M Extension.		Nos.					
Basic Tower including extensions	of M T/L ,	Missing Tower Parts For 220KV ,including bolt and nuts,							
1.2 Tower Type DB	1 Tow	ver Type DA							
Basic Tower Including extensions	Basic	ic Tower including extensions		MT	63.15				
Basic Tower Including extensions									
1.3 Tower Type DC	2 Tow	ver Type DB							
Basic Tower Including extensions	Basic	ic Tower including extensions		MT	90				
Basic Tower Including extensions									
1.4 Tower Type DD/DDE				N A T	14.50				-
Basic Tower including extensions	Basic	ic rower including extensions		IVII	14.56				-
Basic Tower including extensions	4 Tow	ver Type DD/DDE							
Part III.\$5555 Supply of Towers For 220 KV, 4CCT, T/L, including bolt and nuts, hangers, U-bolts complete				MT	155.53				
1 Supply of Towers For 220 KV, 4CCT, T/L, including bolt and nuts, hangers, U-bolts complete		Ü							
Basic Tower	Supp T/L ,	pply of Towers For 220 KV, 4CCT, including bolt and nuts,							
b 4DD +/-OM Extension. Nos. 6	1 Tow	ver Type 4DD							
c 4DD +6M Extension. Nos. 1 d 4DD +14M Extension Nos. 1 e 4DD +22M Extension only Nos. 2 f 4DD -3M leg Extension only Nos. 2 g 4DD +0M LEG Extension only Nos. 2 h with +0M extension) direct connected Nos. 3 i 4DD +3M Leg Extension (included with +0M extension) direct connected to Basic Tower Nos. 5 j +3M Leg Extension Nos. 6 k +6M Leg Extension Nos. 2 l +9M leg Extension Nos. 8 m Common Plan view A3-A3 for extensions Nos. 5 Sub-total= Sub-total= Sub-total= 2 Earthing 2 2.1 Tower Accessories & an Danger Plate Nos. 226 b Number Plate Nos. 226 c Anti Climbing Device Sets 452 d Circuit Plate (set of 1) Sets 452	Basic	ic Tower		Nos.	9				
d 4DD +14M Extension Nos. 1	4DD) +/-0M Extension.		Nos.	6				
e 4DD +22M Extension Nos. 2									
f 4DD -3M leg Extension only Nos. 2 g 4DD +0M LEG Extension only Nos. 2 h with +0M extension) direct connected Nos. 3 i 4DD +3M Leg Extension (included with +0M extension) direct connected to Basic Tower 5 5 j +3M Leg Extension Nos. 6 k +6M Leg Extension Nos. 2 l +9M leg Extension Nos. 8 m Common Plan view A3-A3 for extensions Nos. 5 Sub-total= Sub-total= Supply of Tower Accessories & Earthing 2 Earthing 2 2.1 Tower Accessories 26 a Danger Plate Nos. 226 b Number Plate Nos. 226 c Anti Climbing Device Sets 226 d Phase Plate (set of 3) Sets 452 e Circuit Plate (set of 1) Sets 452 f Bird Guards Sets 60									
g 4DD+OM LEG Extension only h with +0M extension) direct connected li 4DD+3M Leg Extension (included with +0M extension) direct connected to Basic Tower j +3M Leg Extension k +6M Leg Extension Nos. l +9M leg Extension Nos. l +9M leg Extension Nos. Sub-total= Supply of Tower Accessories & Earthing 2.1 Tower Accessories a Danger Plate Nos. b Nos. 226 b Number Plate Nos. 226 c Anti Climbing Device d Phase Plate (set of 3) e Circuit Plate (set of 1) Sets 452 e Circuit Plate (set of 1) Sets 452 f Bird Guards Sound Nos. Sound									
h with +0M extension) direct connected i 4DD +3M Leg Extension (included with +0M extension) direct connected to Basic Tower j +3M Leg Extension k +6M Leg Extension Nos. 2 l +9M leg Extension Nos. 8 m Common Plan view A3-A3 for extensions Sub-total= Supply of Tower Accessories & Earthing 2.1 Tower Accessories a Danger Plate Nos. 226 b Number Plate Nos. 226 c Anti Climbing Device d Phase Plate (set of 3) e Circuit Plate (set of 1) Sets 452 f Bird Guards Sous Nos. 3 Sets 452 Fets Asset Sets 60									
i ADD +3M Leg Extension (included with +0M extension) direct connected to Basic Tower j +3M Leg Extension Nos. 6 k +6M Leg Extension Nos. 2 l +9M leg Extension Nos. 8 m Common Plan view A3-A3 for extensions Sub-total= Supply of Tower Accessories & Earthing 2.1 Tower Accessories a Danger Plate Nos. 226 b Number Plate Nos. 226 c Anti Climbing Device Sets 226 d Phase Plate (set of 3) Sets 452 e Circuit Plate (set of 1) Sets 452 f Bird Guards Sons. 6 Nos. 5 State of Anti Climbing Device Sets 452 f Bird Guards Sets 60		- '							
j +3M Leg Extension Nos. 6 k +6M Leg Extension Nos. 2 I +9M leg Extension Nos. 8 m Common Plan view A3-A3 for extensions Nos. 5 Sub-total= Supply of Tower Accessories & Earthing 2.1 Tower Accessories Nos. 226 a Danger Plate Nos. 226 b Number Plate Nos. 226 c Anti Climbing Device Sets 226 d Phase Plate (set of 3) Sets 452 e Circuit Plate (set of 1) Sets 452 f Bird Guards Sets 60	4DD with) +3M Leg Extension (included n +0M extension) direct connected							
k + 6M Leg Extension Nos. 2 I + 9M leg Extension Nos. 8 m Common Plan view A3-A3 for extensions Nos. 5 Sub-total= Supply of Tower Accessories & Earthing 2.1 Tower Accessories Vos. 226 a Danger Plate Nos. 226 b Number Plate Nos. 226 c Anti Climbing Device Sets 226 d Phase Plate (set of 3) Sets 452 e Circuit Plate (set of 1) Sets 452 f Bird Guards Sets 60				Nos.	6				
H + 9M leg Extension									
m Common Plan view A3-A3 for extensions Nos. 5 Sub-total= Supply of Tower Accessories & Earthing 2.1 Tower Accessories 226 a Danger Plate Nos. 226 b Number Plate Nos. 226 c Anti Climbing Device Sets 226 d Phase Plate (set of 3) Sets 452 e Circuit Plate (set of 1) Sets 452 f Bird Guards Sets 60		-							
Sub-total Suply of Tower Accessories &	Com	nmon Plan view A3-A3 for		Nos.					
Supply of Tower Accessories &					J				
2 Earthing 2.1 Tower Accessories a Danger Plate Nos. 226 b Number Plate Nos. 226 c Anti Climbing Device Sets 226 d Phase Plate (set of 3) Sets 452 e Circuit Plate (set of 1) Sets 452 f Bird Guards Sets 60									
a Danger Plate Nos. 226 b Number Plate Nos. 226 c Anti Climbing Device Sets 226 d Phase Plate (set of 3) Sets 452 e Circuit Plate (set of 1) Sets 452 f Bird Guards Sets 60									
b Number Plate Nos. 226 c Anti Climbing Device Sets 226 d Phase Plate (set of 3) Sets 452 e Circuit Plate (set of 1) Sets 452 f Bird Guards Sets 60	1 Tow	ver Accessories							
c Anti Climbing Device Sets 226 d Phase Plate (set of 3) Sets 452 e Circuit Plate (set of 1) Sets 452 f Bird Guards Sets 60				Nos.					
d Phase Plate (set of 3) Sets 452 e Circuit Plate (set of 1) Sets 452 f Bird Guards Sets 60									
e Circuit Plate (set of 1) Sets 452 f Bird Guards Sets 60									
f Bird Guards Sets 60									
									1
				Sets	60				
2.2 Tower Earthing a Pipe Type Nos. 273		•		N	075				

	e No. 1. Plant and Equipment (includ	Country				Price	Total CIP Border Price	
Sl. No.	Item Description	of origin	Unit	Qty.	Currency#	CIP-Nepal Border	Total	Remarks
1	2	3	4	5	6	7	8 = 5 x 7	9
b	Counterpoise Type							
	i) Counterpoise Type - 120 m		Nos.	95				
	ii) Counterpoise Type - 180 m		Nos.	82				
	iii) Counterpoise Type - 280 m		Nos.	40				
	Sub-total=							
3	Supply of Line Materials							
3.1	Conductor							
a	ACSR BISON Conductor		Km	398.30				
b	AACSR BISON Conductor		Km	146.00				
3.2	Insulator							
	Disc Insulators							
а	70 kN Disc Insulator		Nos.	6179				
b	120 kN Disc Insulator		Nos.	30302				
С	160 kN Disc Insulator		Nos.	5269				
3.3	Earthwire							
а	GS Earthwire 7/3.35 mm size		Km	8				
	Steel Ground Wire with Optical		Km					
b	fibre(OPGW) and Acessories							
	Part I: ^{\$\$}							
3.4	Hardware Fittings							
a	Single Suspension 'I' Insulator String		Sets	189				
а	(suitable for 1x16, 70 KN Disc		3613	103				
	Insulators)							
b	Single Suspension Pilot Insulator		Sets	115				
	String (suitable for 1x16, 70 KN Disc		5005	115				
	Insulators)							
С	Double Suspension Pilot Insulator		Sets					
	String (suitable for 1x16, 70 KN Disc							
	Insulators)							
d	Double Tension Insulator String		Sets	884				
	(suitable for 1x17, 120 KN Disc							
	Insulators)							
е	Double Tension Insulator String		Sets	146				
	(suitable for 1x17, 160 KN Disc							
	Insulators)							<u> </u>
	Part II: ^{\$\$\$}							
	Hardware Fittings							
a a	Single Suspension 'I' Insulator String							
	(suitable for 1x16, 70 KN Disc							
	Insulators)							
i	clevis clevis		Nos	122				
	HH Ball Eye		Nos					
	Arching horn		Nos					İ
	Socket clevis		Nos					
	Yoke Plate (triangle)		Nos					
	Clevis Eye		Nos					
	AG suspension clamp		Nos					
viii	CC ring and CC Bracket		Nos					
b	Single Suspension Pilot Insulator			-		·		1
-	String (suitable for 1x16, 70 KN Disc							
	Insulators)							
i	clevis clevis		Nos	88				
ii	HH Ball Eye		Nos	65				
	Arching horn		Nos	36				
		1						1

		C			Unit Price		Total CIP Border	
Sl. No.	Item Description	Country of origin	Unit	Qty.	_ #	CIP-Nepal	Price	Remarks
		_			Currency#	Border	Total	
1	2 Socket clevis	3	4 Nos	5 50	6	7	8 = 5 x 7	9
	Yoke Plate (triangle)		Nos	38				
	Clevis Eye		Nos	128				
	AG suspension clamp		Nos	4				
	CC ring and CC Bracket		Nos					
VIII	ee ring and ee Bracket		1403					
С	Double Suspension Pilot Insulator		Nos					
	String (suitable for 1x16, 70 KN Disc							
	Insulators)							
d	Double Tension Insulator String							
	(suitable for 1x17, 120 KN Disc							
	Insulators)							
i	Anchor Shackle		Nos	64				
	Chain Link		Nos	32				
	Yoke Plate (triangle)		Nos	8				
	Ball clevis		Nos	51				
	Arching horn tower side		Nos	7				
	socket clevis		Nos	10				
	Yoke Plate (rectangle)		Nos	15				
	Clevis Eye		Nos	30				
	sag adjusting plate		Nos	6				
	CC ring		Nos					
	CC Bracket (95cm)		Nos	6				
xii	steel Deadend assembly		Nos	36				
е	Double Tension Insulator String							
	(suitable for 1x17, 160 KN Disc							
	Insulators)							
	Anchor Shackle and Chain Link		Nos	18				
	Yoke Plate (triangle)		Nos	9				
	Ball clevis		Nos	6				
	Arching horn tower side		Nos	9				
	socket clevis		Nos	25				
	Yoke Plate (rectangle)		Nos	9				-
	Clevis Eye		Nos	36				
	sag adjusting plate		Nos	19				-
	CC ring		Nos					
	CC Bracket		Nos	9				
XI	Aluminium Deadend assembly		Nos					
	Conductor and Earthwire							
3.5	Accessories							
а	Flexible Copper Bond for 7/3.35 mm		Nos.	236				
	GS Earthwire							
	Wilesation Do. 6 1000 (1)		N. 1	222.5				
	Vibration Damper for ACSR/AACSR		Nos.	2326				
	BISON Conductor							
	Vibration Damper Vibration Damper for 7/3.35 mm GS		Nos.	10				
C. I	Earthwire		1105.	10				
c.2	Vibration Damper for OPGW		Nos.	10				<u> </u>
	Bundle spacer for line, suitable for		Nos.	4210				
	ACSR/AACSR BISON Conductor			.210				
	Mid Span Compression Joint for ACSR		Nos.	157				1
	BISON Conductor							
f	Mid Span Compression Joint for		Nos.	5				
	7/3.55 mm GS Earthwire							
	7/3.55 mm GS Earthwire							<u> </u>

Schedule No. 1. Plant and Equipment (including Mandatory Spares Parts) Supplied from Abroad

CL N		Country of origin	Unit	Otru	Unit	Price	Total CIP Border Price	Dama anka
Sl. No.	Item Description			Qty.	Currency#	CIP-Nepal Border	Total	Remarks
1	2	3	4	5	6	7	8 = 5 x 7	9
g	Repair Sleeve for ACSR BISON Conductor		Nos.	89				
h	Rigid Spacer for jumper for ACSR BISON Conductor		Nos.	1819				
i	Earthwire Tension Clamp		Nos.	5				
j	Earthwire Suspension Clamp		Nos.	10				
k	OPGW Suspension Clamp		Nos.	5				
I	OPGW Tension Clamp		Nos.	10				
	Sub-total =				-			
	Total (to Schedule No.5. Grand Summary)							

Note:

- # Specify currency in accordance with specifications in Bid Data Sheet under ITB Clause 18.1. Create and use as many columns for foreign currency requirement as there are foreign currencies.
- \$\$ Part I quantities are those which are clearly quantifiable as per the scope of the work and are given under this heading above.
- \$\$\$ Part II quantities are those which are provided for information only and need to be verified by prospective bidders prior to preparing the bids and entering into contract.
- \$\$\$\$ Part III quantities are those which are clearly quantifiable as per the scope of the work. However, the approved design (both structural and foundation) should be reviewed on their own cost from the successful bidder before testing and supply.

	Signature:	
Date :	Printed Name:	
	Designation:	
Place :	Common Seal:	

Bill of Quantities

Bidder's Name and Address:

Schedule No. 2. Plant and Equipment (including Mandatory Spares Parts) Supplied from Within Employer's

Country						
Sl. No.	Item Description	Unit	Qty.	EXW Unit Price NRs.	EXW Total Price NRs.	Remarks
1	2	3	4	5	6 = 4 x 5	7
	Part: I \$\$ Supply of					
	Towers For 220KV T/L,including bolt and nuts,					
	hangers, U-bolts complete					
	mangers, o-boits complete					
1.1	Tower Type DA	1				
a	Basic Tower	Nos.	1			
b	DA -4.5M Extension.	Nos.	_			
С	DA -3M Extension.	Nos.				
d	DA -1.5M Extension.	Nos.				
е	DA +/-0M Extension.	Nos.	4			
f	DA +1.5M Extension.	Nos.				
g	DA +3M Extension.	Nos.				
h	DA +4.5M Extension.	Nos.				
i	DA +6M Extension.	Nos.				
i	DA+7.5M Extension.	Nos.				
k	DA+9 M Extension.	Nos.				
1.2	Tower Type DB					
a	Basic Tower	Nos.	3			
b	DB -4.5M Extension.	Nos.				
С	DB -3M Extension.	Nos.				
d	DB -1.5M Extension.	Nos.				
е	DB +/-OM Extension.	Nos.	12			
f	DB +1.5M Extension.	Nos.				
g	DB +3M Extension.	Nos.				
h	DB +4.5M Extension.	Nos.				
i	DB +6M Extension.	Nos.				
i	DB+7.5M Extension.	Nos.				
k	DB+9 M Extension.	Nos.				
1.3	Tower Type DC					
а	Basic Tower	Nos.				
b	DC -4.5M Extension.	Nos.				
С	DC -3M Extension.	Nos.				
d	DC -1.5M Extension.	Nos.				
е	DC +/-0M Extension.	Nos.				
f	DC +1.5M Extension.	Nos.				
g	DC +3M Extension.	Nos.				
h	DC +4.5M Extension.	Nos.				
i	DC +6M Extension.	Nos.				
j	DC+7.5M Extension.	Nos.				
k	DC+9 M Extension.	Nos.				
1.4	Tower Type DD/DDE					
а	Basic Tower	Nos.	2			
b	DD -4.5M Extension.	Nos.				
С	DD -3M Extension.	Nos.				
d	DD -1.5M Extension.	Nos.				
е	DD +/-0M Extension.	Nos.	8			
f	DD +1.5M Extension.	Nos.				
g	DD +3M Extension.	Nos.				
h	DD +4.5M Extension.	Nos.				
i	DD +6M Extension.	Nos.				
j	DD+7.5M Extension.	Nos.				
k	DD+9 M Extension.	Nos.				
		•				

Schedule No. 2. Plant and Equipment (including Mandatory Spares Parts) Supplied from Within Employer's

Sl. No.	Item Description	Unit	Qty.	EXW Unit Price NRs.	EXW Total Price NRs.	Remarks
1	2	3	4	5	6 = 4 x 5	7
	Part: II \$\$\$ Supply of Missing					
1	Tower Parts For 220KV T/L ,including bolt and					
	nuts, hangers, U-bolts complete					
1.1	Tower Type DA					
а	Basic Tower including extensions	MT	63.15			
	5					
1.2	Tower Type DB					
а	Basic Tower including extensions	MT	90			
1.3	Tower Type DC					
а	Basic Tower including extensions	MT	14.56			
	- Company of the Comp					
1.4	Tower Type DD/DDE					
а	Basic Tower including extensions	MT	155.53			
	-					
	Part III: \$\$\$\$					
_	Supply of Towers For 220 KV, 4CCT, T/L					
1	including bolt and nuts, hangers, U-bolts					
	complete					
	·					
1.1	Tower Type 4DD					
а	Basic Tower	Nos.	9			
b	4DD +/-0M Extension.	Nos.	6			
С	4DD +6M Extension.	Nos.	1			
d	4DD +14M Extension	Nos.	1			
е	4DD +22M Extension	Nos.	2			
f	4DD -3M leg Extension only	Nos.	2			
g	4DD +0M LEG Extension only	Nos.	2			
h	extension) direct connected to Basic Tower	Nos.	3			
i	4DD +3M Leg Extension (included with +0M	Nos.				
-	extension) direct connected to Basic Tower		5			
i	+3M Leg Extension	Nos.	6			
k	+ 6M Leg Extension	Nos.	2			
1	+ 9M leg Extension	Nos.	8			
m	Common Plan view A3-A3 for extensions	Nos.	5			
	Sub-total=	1				
2	Supply of Tower Accessories & Earthing	1				
	Supply of Tower Accessories & Earthing					
2.1	Tower Accessories					
a a	Danger Plate	Nos.	226			
a b	Number Plate	Nos.	226			
С	Anti Climbing Device	Sets	226			
d	Phase Plate (set of 3)	Sets	452			
e	Circuit Plate (set of 1)	Sets	452			
f	Bird Guards	Sets	60			
		Jets	30			
2.2	Tower Earthing	+	272			
a	Pipe Type	Nos.	273			
b	Counterpoise Type	_	-			
	i) Counterpoise Type - 120 m	Nos.	95			
	ii) Counterpoise Type - 180 m	Nos.	82			
	iii) Counterpoise Type - 280 m	Nos.	40			<u> </u>
	Sub-total=					
3	Supply of Line Materials					
3.1	Conductor					

Schedule No. 2. Plant and Equipment (including Mandatory Spares Parts) Supplied from Within Employer's Country

Country	,					
SI. No.	Item Description	Unit	Qty.	EXW Unit Price NRs.	EXW Total Price NRs.	Remarks
1	2	3	4	5	6 = 4 x 5	7
a	ACSR BISON Conductor	Km	398.30			
b	AACSR BISON Conductor	Km	146.00			
3.2	Insulator					
	Disc Insulators					
a	70 kN Disc Insulator	Nos.	6179			
b	120 kN Disc Insulator	Nos.	30302			
С	160 kN Disc Insulator	Nos.	5269			
3.3	Earthwire					
а	GS Earthwire 7/3.35 mm size	Km	8			
	Steel Ground Wire with Optical fibre(OPGW) and	Km				
b	Acessories					
	Part I: ^{\$\$} Hardware					
3.4	Fittings					
а	Single Suspension 'I' Insulator String (suitable for	Sets	189			
	1x16, 70 KN Disc Insulators)					
b	Single Suspension Pilot Insulator String (suitable for	Sets	115			
	1x16, 70 KN Disc Insulators)					
С	Double Suspension Pilot Insulator String (suitable	Sets				
	for 1x16, 70 KN Disc Insulators)					
d	Double Tension Insulator String (suitable for 1x17,	Sets	884			
	120 KN Disc Insulators)					
е	Double Tension Insulator String (suitable for 1x17,	Sets	146			
	160 KN Disc Insulators)					
	Part II: \$\$\$ Hardware					
3.4						
	Fittings Single Suspension 'I' Insulator String (suitable for					
а	1x16, 70 KN Disc Insulators)					
	clevis clevis	Nos	122			
	HH Ball Eye	Nos	122			
	Arching horn	Nos				
	Socket clevis	Nos				
	Yoke Plate (triangle)	Nos				
	Clevis Eye	Nos				
	AG suspension clamp	Nos				
	CC ring and CC Bracket	Nos				
		1105				
b	Single Suspension Pilot Insulator String (suitable for 1x16, 70 KN Disc Insulators)					
		Nos	00			
	clevis clevis	Nos	88		+	
	HH Ball Eye Arching horn	Nos Nos	65 36		+	
	Socket clevis					
		Nos	50		+	
	Yoke Plate (triangle)	Nos	120		+	
	Clevis Eye AG suspension clamp	Nos	128		+	
	AG suspension clamp CC ring and CC Bracket	Nos	4		+	
VIII	CC TING AND CC Bracket	Nos		1	+	
_	Double Suspension Bilet Insulator State - In the	NIn-	+		+	
С	Double Suspension Pilot Insulator String (suitable	Nos				
	for 1x16, 70 KN Disc Insulators)					
d	Double Tension Insulator String (suitable for 1x17,					
	120 KN Disc Insulators)					
i	Anchor Shackle	Nos	64			

Schedule No. 2. Plant and Equipment (including Mandatory Spares Parts) Supplied from Within Employer's

<u>Country</u> Sl. No.	Item Description	Unit	Qty.	EXW Unit Price NRs.	EXW Total Price NRs.	Remarks
1	2	3	4	5	6 = 4 x 5	7
	Chain Link	Nos	32	3	0-473	,
	Yoke Plate (triangle)	Nos	8			
	Ball clevis	Nos	51			
	Arching horn tower side	Nos	7			
	socket clevis	Nos	10			
	Yoke Plate (rectangle)	Nos	15			
	Clevis Eye	Nos	30			
	sag adjusting plate	Nos	6			
	CC ring	Nos				
	CC Bracket (95cm)	Nos	6			
	steel Deadend assembly	Nos	36			
All	,	1103	30			
е	Double Tension Insulator String (suitable for 1x17,					
	160 KN Disc Insulators)					
i	Anchor Shackle and Chain Link	Nos	18			
	Yoke Plate (triangle)	Nos	9			
	Ball clevis	Nos	6			
iv	Arching horn tower side	Nos	9			
V	socket clevis	Nos	25			
vi	Yoke Plate (rectangle)	Nos	9			
vii	Clevis Eye	Nos	36			
viii	sag adjusting plate	Nos	19			
ix	CC ring	Nos				
Х	CC Bracket	Nos	9			
xi	Aluminium Deadend assembly	Nos				
3.5	Conductor and Earthwire Accessories					
a	Flexible Copper Bond for 7/3.35 mm GS Earthwire	Nos.	236			
u	Tiexible copper bond for 7/3.33 min d3 Editirwire	1103.	230			
b	Vibration Damper for ACSR/AACSR BISON Conductor	Nos.	2326			
С	Vibration Damper					
c.1	Vibration Damper for 7/3.35 mm GS Earthwire	Nos.	10			
c.2	Vibration Damper for OPGW	Nos.	10			
d	Bundle spacer for line, suitable for ACSR/AACSR BISON Conductor	Nos.	4210			
е	Mid Span Compression Joint for ACSR BISON Conductor	Nos.	157			
f	Mid Span Compression Joint for 7/3.55 mm GS Earthwire	Nos.	5			
g	Repair Sleeve for ACSR BISON Conductor	Nos.	89			
h	Rigid Spacer for jumper for ACSR BISON Conductor	Nos.	1819			
i	Earthwire Tension Clamp	Nos.	5			
j	Earthwire Suspension Clamp	Nos.	10			
k	OPGW Suspension Clamp	Nos.	5			
	· ·					
	OPGW Tension Clamp	Nos.	10			
	Sub-total =					
	Total (to Schedule No.5. Grand Summa	ary)				

Note:

Specify currency in accordance with specifications in Bid Data Sheet under ITB Clause 18.1. Create and use as many columns for foreign currency requirement as there are foreign currencies.

Schedule No. 2. Plant and Equipment (including Mandatory Spares Parts) Supplied from Within Employer's

Country								
Sl. No.	Item Description	Unit	lOtv .		EXW Total Price NRs.	Remarks		

\$\$ Part I quantities are those which are clearly quantifiable as per the scope of the work and are given under this heading above.

4

 $6 = 4 \times 5$

- \$\$\$ Part II quantities are those which are provided for information only and need to be verified by prospective bidders prior to preparing the bids and entering into contract.
- \$\$\$\$ Part III quantities are those which are clearly quantifiable as per the scope of the work. However, the approved design (both structural and foundation) should be reviewed on their own cost from the successful bidder before testing and supply.

	Signature:
	Printed Name:
Date :	Designation:
Place :	Common Seal:

Bill of Quantities

Bidder's Name and Address:

ICB No:

Schedule No. 3. Design Services

The price of design review of 4DD towers is deemed to have been covered in the prices of other schedules. So the contractor

		Qty.	Unit P	rice [#]	Tot	al Price [#]
Item	Description		Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion
(1)	(2)	(3)	(4)	(5)	(6)=(4)X(3)	(7)=(3)X(5)
	Not Applicable					

	Signature:
Date:	Printed Name:
	Designation:
Place :	Common Seal:

Bidder's Name and Address:

ICB No:

Schedule No.4: Installation and Other Services

	ocal Transportation, Insurance and Other		1	Unit Price#	Total Price#	Remarks
Sl. No.	Item Description	Unit	Qty.	Local Currency Portion	Local Currency Portion (NPR)	
(1)	(2)	(3)	(4)	(6)	(8)=(4)X(6)	(9)
	Part: I ^{\$\$} Supply of Towers For 220KV T/L,including bolt and nuts, hangers, U-bolts complete					
1.1	Tower Type DA					
а	Basic Tower	Nos.	1			
b	DA -4.5M Extension.	Nos.				
С	DA -3M Extension.	Nos.				
d	DA -1.5M Extension.	Nos.				
е	DA +/-0M Extension.	Nos.	4			
f	DA +1.5M Extension.	Nos.				
g	DA +3M Extension.	Nos.				
h	DA +4.5M Extension.	Nos.				
i	DA +6M Extension.	Nos.				
j	DA+7.5M Extension.	Nos.				
k	DA+9 M Extension.	Nos.				
1.2	Tower Type DB					
а	Basic Tower	Nos.	3			
b	DB -4.5M Extension.	Nos.				
С	DB -3M Extension.	Nos.				
d	DB -1.5M Extension.	Nos.				
е	DB +/-0M Extension.	Nos.	12			
f	DB +1.5M Extension.	Nos.				
g	DB +3M Extension.	Nos.				
h	DB +4.5M Extension.	Nos.				
i	DB +6M Extension.	Nos.				
j	DB+7.5M Extension.	Nos.				
k	DB+9 M Extension.	Nos.				
1.3	Tower Type DC					
а	Basic Tower	Nos.				
b	DC -4.5M Extension.	Nos.				
С	DC -3M Extension.	Nos.				
d	DC -1.5M Extension.	Nos.				
е	DC +/-0M Extension.	Nos.				
f	DC +1.5M Extension.	Nos.				
g	DC+3M Extension.	Nos.				
h	DC +4.5M Extension.	Nos.				
i	DC +6M Extension.	Nos.				
j	DC+7.5M Extension.	Nos.				
k	DC+9 M Extension.	Nos.				
1.4	Tower Type DD/DDE					
а	Basic Tower	Nos.	2			
b	DD -4.5M Extension.	Nos.				
С	DD -3M Extension.	Nos.				

ICB No:

Schedule No.4: Installation and Other Services

				Unit Price#	Total Price#	Remarks
Sl. No.	Item Description	Unit	Qty.	Local Currency Portion	Local Currency Portion (NPR)	
d	DD -1.5M Extension.	Nos.				
е	DD +/-0M Extension.	Nos.	8			
f	DD +1.5M Extension.	Nos.				
g	DD +3M Extension.	Nos.				
h	DD +4.5M Extension.	Nos.				
i	DD +6M Extension.	Nos.				
j	DD+7.5M Extension.	Nos.				
k	DD+9 M Extension.	Nos.				
1	Part: II ^{\$\$\$} Supply of Missing Tower Parts For 220KV T/L ,including bolt and nuts, hangers, U-bolts complete					
1.1	Tower Type DA					
a	Basic Tower including extensions	MT	63.15			
4.0						
1.2	Tower Type DB					
a	Basic Tower including extensions	MT	90	1		
1.3	Tower Type DC					
а	Basic Tower including extensions	MT	14.56			
1.4	Tower Type DD/DDE					
а	Basic Tower including extensions	MT	155.53			
1	Part III: \$555 Supply of Towers For 220 KV, 4CCT, T/L ,including bolt and nuts, hangers, U- bolts complete					
1.1	Tower Type 4DD					
а	Basic Tower	Nos.	9			
b	4DD +/-0M Extension.	Nos.	6			
С	4DD +6M Extension.	Nos.	1			
d	4DD +14M Extension	Nos.	1			
е	4DD +22M Extension	Nos.	2			
f	4DD -3M leg Extension only	Nos.	2			
g	4DD +0M LEG Extension only	Nos.	2			
h	+0M extension) direct connected to Basic	Nos.	3			
i	4DD +3M Leg Extension (included with +0M extension) direct connected to Basic	Nos.	5			
	Tower					
j	+3M Leg Extension	Nos.	6			
k	+ 6M Leg Extension	Nos.	2			
1	+ 9M leg Extension	Nos.	8			
m	Common Plan view A3-A3 for extensions	Nos.	5			

ICB No:

Schedule No.4: Installation and Other Services

Sl. No.	Item Description	Unit	Qty.	Unit Price# Local Currency	Total Price [#] Local Currency Portion (NPR)	Remarks
	Sub-total=			Portion	, ,	
2	Supply of Tower Accessories & Earthing		_			1
	Supply of Tower Accessories & Larthing					
2.1	Tower Accessories					
а	Danger Plate	Nos.	226			
b	Number Plate	Nos.	226			
С	Anti Climbing Device	Sets	226			
d	Phase Plate (set of 3)	Sets	452			
е	Circuit Plate (set of 1)	Sets	452			
f	Bird Guards	Sets	60			
2.2	Tower Earthing					
а	Pipe Type	Nos.	273			
b	Counterpoise Type					
	i) Counterpoise Type - 120 m	Nos.	95			
	ii) Counterpoise Type - 180 m	Nos.	82			
	iii) Counterpoise Type - 280 m	Nos.	40			
	Sub-total=					
3	Supply of Line Materials					
3.1	Conductor					
a	ACSR BISON Conductor	Km	398.30			
b	AACSR BISON Conductor	Km	146.00			
3.2	In a collabora					
3.2	Insulator Disc Insulators					
2	70 kN Disc Insulator	Nos.	6179			
a b	120 kN Disc Insulator	Nos.	30302			
С	160 kN Disc Insulator	Nos.	5269			
3.3	Earthwire	1103.	3203			
a	GS Earthwire 7/3.35 mm size	Km	8			
a	Steel Ground Wire with Optical	Km	- 0			
b	fibre(OPGW) and Acessories	KIII				
	Part I: ^{\$\$}					
3.4	Hardware Fittings					
а	Single Suspension 'I' Insulator String	Sets	189			
-	(suitable for 1x16, 70 KN Disc Insulators)	55.5	1 200			
	<u> </u>					<u>l</u>
b	Single Suspension Pilot Insulator String	Sets	115			
	(suitable for 1x16, 70 KN Disc Insulators)					
	Davida Comanda Billia III Ciri	C. 1				
С	Double Suspension Pilot Insulator String	Sets				
	(suitable for 1x16, 70 KN Disc Insulators)					
d	Double Tension Insulator String (suitable	Sets	884			
	for 1x17, 120 KN Disc Insulators)	_ 5 10	30.			
	,,					
е	Double Tension Insulator String (suitable	Sets	146			
	for 1x17, 160 KN Disc Insulators)					

ICB No:

Schedule No.4: Installation and Other Services

	_			Unit Price [#] Local	Total Price [#]	Remarks
Sl. No.	Item Description	Unit	Qty.	Currency Portion	Local Currency Portion (NPR)	
	Part II: ^{\$\$\$}					
3.4	Hardware Fittings					
a a	Single Suspension 'I' Insulator String					
	(suitable for 1x16, 70 KN Disc Insulators)					
	clevis clevis	Nos	122			
	HH Ball Eye	Nos				
	Arching horn	Nos				
	Socket clevis	Nos				
	Yoke Plate (triangle)	Nos				
	Clevis Eye	Nos				
	AG suspension clamp	Nos				
viii	CC ring and CC Bracket	Nos				
b	Single Suspension Pilot Insulator String (suitable for 1x16, 70 KN Disc Insulators)					
· · ·	clevis clevis	Nos	88	,		
- 1	HH Ball Eye	Nos	65			
	Arching horn		36	-		
	Socket clevis	Nos		+		
	Yoke Plate (triangle)	Nos	50 38	-		-
		Nos				
	Clevis Eye	Nos	128			-
	AG suspension clamp	Nos	4	•		-
VIII	CC ring and CC Bracket	Nos				
С	Double Suspension Pilot Insulator String (suitable for 1x16, 70 KN Disc Insulators)	Nos				
d	Double Tension Insulator String (suitable for 1x17, 120 KN Disc Insulators)					
i	Anchor Shackle	Nos	64			
ii	Chain Link	Nos	32	!		
iii	Yoke Plate (triangle)	Nos	8	3		
	Ball clevis	Nos	51			
	Arching horn tower side	Nos	7	'		
	socket clevis	Nos	10			
	Yoke Plate (rectangle)	Nos	15	i		
	Clevis Eye	Nos	30			
ix	sag adjusting plate	Nos	6	5		
	CC ring	Nos				
	CC Bracket (95cm)	Nos	6	5		
xii	steel Deadend assembly	Nos	36	5		
е	Double Tension Insulator String (suitable for 1x17, 160 KN Disc Insulators)					
i	Anchor Shackle and Chain Link	Nos	18	3		

ICB No:

Schedule No.4: Installation and Other Services

Part A: Local Transportation, Insurance and Other Incidental Services

Sl. No.	Item Description	Unit	Qty.	Unit Price [#] Local Currency	Total Price [#] Local Currency Portion (NPR)	Remarks
	Valia Plata (triangla)	Nes	9	Portion	` ′	
	Yoke Plate (triangle) Ball clevis	Nos	6			
	Arching horn tower side	Nos Nos	9			
	socket clevis	Nos	25			
	Yoke Plate (rectangle)	Nos	9			
	Clevis Eye	Nos	36			
	sag adjusting plate	Nos	19	-		
	CC ring	Nos	13			
	CC Bracket	Nos	9			
	Aluminium Deadend assembly	Nos				
	A Mariania Deduction assembly	1103				
3.5	Conductor and Earthwire Accessories					
а	Flexible Copper Bond for 7/3.35 mm GS Earthwire	Nos.	236			
b	Vibration Damper for ACSR/AACSR BISON Conductor	Nos.	2326			
С	Vibration Damper					
c.1	Vibration Damper for 7/3.35 mm GS Earthwire	Nos.	10			
c.2	Vibration Damper for OPGW	Nos.	10			
d	Bundle spacer for line, suitable for ACSR/AACSR BISON Conductor	Nos.	4210			
е	Mid Span Compression Joint for ACSR BISON Conductor	Nos.	157			
f	Mid Span Compression Joint for 7/3.55 mm GS Earthwire	Nos.	5			
g	Repair Sleeve for ACSR BISON Conductor	Nos.	89			
h	Rigid Spacer for jumper for ACSR BISON Conductor	Nos.	1819			
i	Earthwire Tension Clamp	Nos.	5			
j	Earthwire Suspension Clamp	Nos.	10			
k	OPGW Suspension Clamp	Nos.	5			1
1	OPGW Tension Clamp	Nos.	10			
	Sub-total =					
	Total (to Schedule No.5. G	rand Summar	v)			

Note:

- # Specify currency in accordance with specifications in Bid Data Sheet under ITB Clause 18.1. Create and use as many columns for foreign currency requirement as there are foreign currencies.
- \$\$ Part I quantities are those which are clearly quantifiable as per the scope of the work and are given under this heading above.
- \$\$\$ Part II quantities are those which are provided for information only and need to be verified by prospective bidders prior to preparing the bids and entering into contract.
- \$\$\$\$ Part III quantities are those which are clearly quantifiable as per the scope of the work. However, the approved design (both structural and foundation) should be reviewed on their own cost from the successful bidder before testing and supply.

ICB No:

Schedule No.4: Installation and Other Services

Sl. No.	Item Description	Unit	Qty.	Unit Price [#] Local Currency Portion	Total Price [#] Local Currency Portion (NPR)	Remarks
				Signature:		
Date :				Printed Name:		
				Designation:		
Place :				Common Seal:		

Bill of Quantities

Bidder's Name and Address:

ICB No:

Schedule No.4: Installation and Other Services

Part B: Installation Charges

SI. No.	ltem Description	Unit	Qty.	Uni	t Price	Total Price Foreign Currency	Total Price Local Currency Portion	Remarks
140.				Foreign Currency	Local Currency Portion	Portion	currency rortion	
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)X(5)	(8)=(4)X(6)	(9)
1	Survey							
1.1	Check survey and preparation of Tower	KM	2					
	Schedule for 4DD Towers		0					
1.2	Protection Wall Survey and Design	Nos	0					
1.3	Benching							
	Normal and Boulder Mixed Soil	Cum.	4000					
	Fissured Rock	Cum.	1000					
	Hard Rock	Cum.	200					
	Sub Total							
	Part I: ^{\$\$}							
2	Work associated with installation of tower foundations							
								1
2.1	Tower Type DA (for all type of body and leg extensions)							
а	Dry Soil	No						
b	Wet Soil	No	5					
С	Fully Submerged Soil	No	0					
d	Dry Fissured Rock	No	0					
е	Wet Fissured Rock	No	0					
f	Sandy Soil	No	0					
g	Hard Rock	No	0					1
2.2	Tower Type DB (for all type of body and leg extensions)							
а	Dry Soil	No.	3					
b	Wet Soil	No	13					
С	Fully Submerged Soil	No	0					
d	Dry Fissured Rock	No	0					
е	Wet Fissured Rock	No	0					
d	Sandy Soil	No	0					
е	Hard Rock	No	0					
2.3	Tower Type DC (for all type of body and leg extensions)							
а	Dry Soil	No						1
b	Wet Soil	No	3					
С	Fully Submerged Soil	No						
d	Dry Fissured Rock	No						
е	Wet Fissured Rock	No						
d	Sandy Soil	No						
е	Hard Rock	No						
2.4	Tower Type DD (for all type of body and leg extensions)							
а	Dry Soil	No	3					
b	Wet Soil	No	16					
С	Fully Submerged Soil	No	1					
d	Dry Fissured Rock	No						

			INAMON	ISSION LIN	LINOJECI		
е	Wet Fissured Rock	No					
d	Sandy Soil	No					
е	Hard Rock	No					
	T T 400 (6 H)						
2.5	Tower Type 4DD (for all type of body and leg extensions)						
а	Dry Soil	No	3				
b	Wet Soil	No	1				
С	Fully Submerged Soil	No	2				
d	Dry Fissured Rock	No	1				
e f	Wet Fissured Rock	No	2				
g	Sandy Soil Hard Rock	No No					
ь	Sub Total	110					
2	Part II: SSS Work associated with dismantling and installation of existing damaged tower foundations as per instruction of Engineer						
2.1	All type of Tower Foundations	LS(No)	3				
	Sub Total	\/					
3	Part I: ^{\$\$} Erection of towers & its body extensions (Complete) including bolts & nuts, tack welding and supply and application of enamel & zinc rich paint						
3.1	Tower Type DA						
a	Basic Tower	No	19				
b	DA -4.5M Extension. DA -3M Extension.	No	3 9				
c d	DA -1.5M Extension.	No No	6				
	DA +/-OM Extension.	No	35				
e							
f	DA +1.5M Extension.	No	15				
g	DA +3M Extension.	No	6				
h	DA +4.5M Extension.	No	0				
i	DA +6M Extension.	No	2				
j	DA+7.5M Extension.	No	0				
k	DA+9 M Extension.	No	0				
3.2	Tower Type DB						
а	Basic Tower	No	36				
b	DB -4.5M Extension.	No	8				
С	DB -3M Extension.	No	14				
d	DB -1.5M Extension.	No	19				
e	DB +/-OM Extension.	No	44				
f	DB +1.5M Extension.	No	27				
	DB +3M Extension.	No	11				
g h	DB +4.5M Extension.		6				
		No					
i	DB +6M Extension.	No	6				
j	DB+7.5M Extension.	No	5				
k	DB+9 M Extension.	No	4				
3.3	Tower Type DC						
а	Basic Tower	No	7				
b	DC -4.5M Extension.	No	0				
						 î	i
С	DC -3M Extension.	No	6				

			INAMON	1221ON LINE I	KOJECI		
е	DC +/-0M Extension.	No	7				
f	DC +1.5M Extension.	No	2				
g	DC +3M Extension.	No	5				
h	DC +4.5M Extension.	No	4				
i	DC +6M Extension.	No	1				
j	DC+7.5M Extension.	No	2				
k	DC+9 M Extension.	No	0				
3.4	Tower Type DD/DDE						
а	Basic Tower	No	36				
b	DD/DDE -4.5M Extension.	No	4				
С	DD/DDE -3M Extension.	No	10				
d	DD/DDE -1.5M Extension.	No	17				
	DD/DDE +/-OM Extension.		56				
e		No					
f	DD/DDE +1.5M Extension.	No	21				
g	DD/DDE +3M Extension.	No	21				
h	DD/DDE +4.5M Extension.	No	4				
i	DD/DDE +6M Extension.	No	4				
j	DM+7.5M Extension. DM+9 M Extension.	No	2				
k		No	7				
	Tower Type 4DD		9				
a b	Basic Tower 4DD +/-0M Extension.		6				
С	4DD +6M Extension.		1				
d	4DD +14M Extension		1				
е	4DD +22M Extension		2				
f	4DD -3M leg Extension only		2				
g	4DD +0M LEG Extension only		2				
h	4DD +1.5 M Leg Extension (included with +0M extension) direct connected to Basic		3				
''	Tower		3				
	4DD +3M Leg Extension (included with						
i	+0M extension) direct connected to Basic		5				
	Tower						
j	+3M Leg Extension		6				ļ
k	+ 6M Leg Extension		2 8				
m	+ 9M leg Extension Common Plan view A3-A3 for extensions		5				
	Sub Total			<u> </u>			
	Part II: ^{\$\$\$}						
	Dismantling and Re-erection of towers						
	& its body extensions (Complete)						
	including bolts & nuts, tack welding,						
	coping & backfilling of foundations and supply and application of enamel						
	& zinc rich paint as per instruction of						
	Engineer						
2 1	Tower Type DA	LS (Nos)	10				
3.1							
3.2	Tower Type DB	LS (Nos)	10				
3.3	Tower Type DC	LS (Nos)	0				
3.4	Tower Type DD/DDE	LS (Nos)	5				
	Sub Total						

			IRANSM	ISSION LIN	E PROJECT		
3	Part IV:* Rectification of Erected towers & its body extensions (Complete) including bolts & nuts, tack welding, coping & backfilling of foundations and supply and application of enamel & zinc rich paint as per instruction of Engineer						
3.1	Tower Type DA	LS (Nos)	32				
3.2	Tower Type DB	LS (Nos)	34				
3.3	Tower Type DC	LS (Nos)	6				
3.4	Tower Type DD/DDE	LS (Nos)	22				
	Sub Total						
4	Installation of earthing of towers						
4.1	Pipe Type	Nos.	119				
4.2	Counterpoise Type						
a	Counterpoise Type -120m	Nos.	43				
b	Counterpoise Type -180m	Nos.	43				
С	Counterpoise Type -280m	Nos.	29				
	Sub Total	1403.					
	oub Total						
5	Installation of tower accessories						
5.1	Danger Plate	Nos.	226				
5.2	Number Plate	Nos.	226				
5.3	Phase Plate (Set of six)	Sets	226				
5.4	Circuit Plate (Set of two)	Sets	452				
5.5	Anti climbing device	Nos.	452				
5.6	Bird Guard Sub Total	Nos.	60				
6.1	Part I: \$\$ Installation of insulator strings complete with arcing horns & necessary hardware, installing of bundle conductor including fixing of conductor accessories, installing & stringing of earthwire including fixing of earthwire accessories (Twin bundle Conductor) in Double Ckt Line including 2 km four ckt line.						
6.1.1							
а	Remaining and Second Circuit Stringing except Four Circuit Length	Ckt Km	134				
b	Four Circuit Length	Ckt Km	8				
6.1.2	Installation of Steel ground wire including all fittings & accessories	Km	76				
6.1.3	all cable fittings & accessories	km	76				
6.2	Redrumming of Damaged Conductor Drums	Nos	166				
	Sub Total						

6	Part II: \$55 Re-installation of insulator strings complete with arcing horns & necessary hardware, reinstalling of bundle conductor including fixing of conductor accessories, reinstalling & restringing of earthwire including fixing of earthwire accessories (Twin bundle Conductor) in Double Ckt Line as per instruction of Engineer.	LS (Km)	10				
					-		
7	Protection of tower footing						
7.1	Random rubble stone masonry including excavation (1:4 cement : sand)	CUM	4000				
7.2	Stone bound in galvanizing wire netting(Gabion Wall) including excavation	CUM	4000				
7.3	Back filling and leveling of volumes enclosed by revetment	CUM	5000				
7.4	M15 Conc. Nominal Mix 1:2:4 (including formwork) for foundation base & top seal cover	CUM	200				
7.5	Reinforcement Bars	M.ton	20				
	Sub Total				-		
	Total (to Schedule No.5. Grand Summa	y)					

Note:

- # Specify currency in accordance with specifications in Bid Data Sheet under ITB Clause 18.1. Create and use as many columns for foreign currency requirement as there are foreign currencies.
- \$\$ Part I quantities are those which are clearly quantifiable as per the scope of the work and are given under this heading above.
- \$\$\$ Part II quantities are those which are provided for information only and need to be verified by prospective bidders prior to preparing the bids and entering into contract.
- * Part IV quantities are those which are provided for information only and need to be verified by prospective bidders prior to preparing the bids and entering into contract.

	Signature:	
Date :	Printed Name:	
	Designation:	
Place :	Common Seal:	

Bidder's Name and Address:

ICB No:

Schedule No.4: Installation and Other Services

Part C: Type Test Charges for Type Tests to be conducted Abroad

Part C:	Type Test Charges for Type Tests to be conducted Abroad	<u>1</u>		1	Test Charges			
CL N-	Description of Test	I I m in	04		Test Charges	, 	Remarks	
Sl. No.	Description of Test	Unit	Qty	Currency(#)	Unit Charges	Total Amt		
1	2	3	6	7	8	11=8x6	12	
1	Proto Type Testing of towers							
	Tower Type 4DD with extensions -One number	No.	1					
2	Hardware Fittings							
	Suspension String							
	Magnetic power loss test for suspension assembly	No.	2					
	Clamp slip strength vs. torque test for suspension assembly	No.	2					
С	Mechanical strength test	No.	2					
d	Ozone test on elastomer	No.	1					
2.2	Double Tension String							
	For (1x120 kN and 1x160 kN insulator string)							
а	Electrical resistance test for dead end assembly	No.	1					
b	Slip strength test for dead end assembly	No.	1					
С	Mechanical strengtht test	No.	1					
2.4	Flexible Copper Bond							
		No	1					
а	Slip strength test	No.	1					
3.2	Vibration Damper for ACSR Bison Conductor							
а	Dynamic characteristic test	No.	1					
b	Vibration analysis test	No.	1					
С	Clamp slip test	No.	1					
d	Fatigue test	No.	1					
	Magnetic power loss test	No.	1					
	Damper efficiency test	No.	1					
g	Corona extinction voltage test (Dry)	No.	1					
h	Radio interference voltage test (Dry)	No.	1					
3 3	Vibration Damper for 7/3.35 mm GS Earthwire							
	Dynamic characteristic test	No.	1					
	Vibration analysis test	No.	1					
	Clamp slip test	No.	1					
	Fatigue test	No.	1					
	Damper efficiency test	No.	1					
	bumper emerency test	140.						
3.4	Bundle Spacer for ACSR Bison Conductor							
	Clamp slip test	No.	1					
b	Vibration test	No.	1					
С	Tension compression test	No.	1					
	Corona extinction voltage test (Dry)	No.	1					
	Radio interference voltage test (Dry)	No.	1					
f	Ozone test on elastomer	No.	1					
3 E	Rigid Spacer for ACSR Bison Conductor							
	Clamp slip test	No.	1		1	1	1	
	Tension compression test	No.	1			+	1	
	Corona extinction voltage test (Dry)	No.	1			1	1	
	Radio interference voltage test (Dry)	No.	1			1		
3.6	Earthwire suspension clamp assembly							
	Mechanical strength test	No.	1					
b	Clamp slip strength vs torque test for suspension assembly	No.	1					

_	110 (14514115)	J. O. 14 E.		-01		
С	Electrical resistance test	No.	1			
	Earthwire Tension Clamp Assembly					
	Mechanical strength test	No.	1			
	Slip strength test for dead end assembly	No.	1			
С	Electrical resistance test for dead end assembly	No.	1			
	Mid Span Compression Joint for Conductors					
	Slip strength test for dead end assembly	No.	1			
b	Electrical resistance test for dead end assembly	No.	1			
	Mid Span Compression Joint for Earth wire	1				
	Slip strength test for dead end assembly	No.	1			
b	Electrical resistance test for dead end assembly	No.	1			
_						
4	ACSR BisonConductor					
	LUTO T	l	4			
	UTS Test	No.	1			
	DC Resistance Test Corona & RIV Test	No.	1			
4.3	Corona & RIV Test	INO.	1			
-	AACSR Bison Conductor					
	UTS Test	No.	1			
	DC Resistance Test	No.	1			
	Corona & RIV Test	No.	1			
3.3	Corona & NIV Test	INO.	1			
6	Insulator					
	On Complete Insulator Strings:	No.				
	Voltage distribution test	No.	2			
	Corona and RIV test under dry condition	No.	2			
	Mechanical Strength test	No.	4			
d	Vibration test	No.	2			
е	Power-Arc Test	No.	2			
6.2	On Disc Insulator units:					
	Disc Insulators-for each 70,120 and 160 kN					
а	Verification of dimensions	No.	4			
	Thermal mechanical performance test	No.	3			
С	Power frequency voltage withstand and flashover test under	No.				
	(i) dry		3			
	(ii) wet condition		3			
d	Impulse voltage withstand and flashover test (dry)	No.	3			
е	Visible discharge test (dry)	No.	3		 	
	RIV test (dry)	No.	3			
	Residual strength test	No.	3			
	Steep wave front test	No.	3			
i	Impact test	No.	3			
	Sub-total =	1				
	Total (to Schedule No.5. Grand Summary)					

Note:

Specify currency in accordance with specifications in Bid Data Sheet under ITB Clause 18.1. Create and use as many columns for foreign currency requirement as there are foreign currencies.

	Signature:	
Date:	Printed Name:	
Place :	Designation:	
	Common Seal:	

Bill of Quantities

ICB No:

Schedule No.4: Installation and Other Services

Part D: Training Charges for training to be imparted abroad

Sl. No.			Country where training is to	No. of	Training duration in	Test C	Charges	Total	D
	Description	Item for which training is to be imparted	be imparted	Trainee	Days	Currency(#)	Unit Charges	Charges	Remarks
1	2	3	4	5	6	7	8	9 =5x6x8	10
	NOT APPLICABLE								
	Sub-total =							0.00	
	Total (to Schedule No.5. Grand Summary)								

	0	ıt	

Specify currency in accordance with specifications in Bid Data Sheet under ITB Clause 18.1. Create and use as many columns for foreign currency requirement as there are foreign currencies.

Signature:	
Printed Name:	ate :
Designation:	lace :
Common Seal:	

Hetauda-Bharatpur 220 kV Transmission Line Project

PROCUREMENT OF PLANT DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF HETAUDA-BHARATPUR 220 KV TRANSMISSION LINE PROJECT Bill of Quantities

Bidder's N	ame and	Address:
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ICB No:

Schedule No. 5. Grand Summary

SI. No.	Description	Total Price Foreign(#)	Total Price Local(#)
(1)	(2)	(3)	(4)
1	Total Schedule No. 1. Plant and Equipment (including Mandatory Spares Parts) Supplied from Abroad		
2	Total Schedule No. 2. Plant and Equipment (including Mandatory Spares Parts) Supplied from Within Employer's Country		
3	Total Schedule No. 3. Design Services		e "Supply, Installation and es" Schedules
4	Schedule No.4: Installation and Other Services		
Part - A:	Local Transportation, Insurance and Other Incidental Services		
Part - B:	Installation Charges		
Part - C:	Type Test Charges for Type Tests to be conducted Abroad		
Part - D:	Training Charges for training to be imparted abroad		
	Total Schdule No.4. Installation and Other Services		
Grand Tot	al excluding Custom Duties and VAT (to bid form)		

Note:

Specify currency in accordance with specifications in Bid Data Sheet under ITB Clause 18.1. Create and use as many columns for foreign currency requirement as there are foreign currencies.

Signature: _	
Printed Name: _	Date :
Designation:	Place :
Common Seal:	

Bill of Quantities

Bidder's Name and Address:

ICB No:

PRICE SCHEDULE NO. 6 Recommended Spare Parts

			Unit Price		Total Price
Item	Description	Quantity	CIF or CIP (foreign parts)	EXW (local parts)	
		1	2	3	1*2 or 3