

NEPAL ELECTRICITY AUTHORITY
PROJECT MANAGEMENT DIRECTORATE
 Marsyangdi Corridor 220 kV Transmission Line Project, Udiapur-Markichowk-Bharatpur Section

Schedule No.1: Plant and Equipment including Mandatory Spares to be supplied from abroad

Item No.	Item description	Country of origin	Estimated		CIP Project Site including insurance, clearing, forwarding and transportaion to site (Excluding Taxes and Duties applicable in Nepal)			Total Amount (Excluding Taxes and Duties)	Custom, VAT and other taxes	Remarks
			Unit	Quantity	FC		FC	LC		
					Currency#	Unit Rate			Amount	
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10	
1.1	Design, fabrication & supply of following types of towers & tower extension parts complete with stubs, step bolts, hangers, D-shackles, bolts & nuts etc but excluding tower accessories such as danger plates, number plates, phase plates, anti-climbing devices									
1.1.1	Suspension Tower DA									
a.1)	Basic tower		Nos.	21						
a.2)	Stub		Nos.	84						
b)	-4.5 m Leg Extension		Nos.	4						
c)	-3 m Leg Extension		Nos.	6						
d)	-1.5 m Leg Extension		Nos.	8						
e)	+/- 0 m Leg Extension		Nos.	30						
f)	+1.5 m Leg Extension		Nos.	8						
g)	+3 m Leg Extension		Nos.	28						
h)	+4.5 m Leg Extension		Nos.	2						
i)	+6 m Leg Extension		Nos.	12						
j)	+7.5 m Leg Extension		Nos.	2						
k)	+9 m Leg Extension		Nos.	8						
l)	+18 m Leg Extension		Nos.	3						
m)	+25 m Leg Extension		Nos.	3						
1.1.2	Tension Tower DB									
a.1)	Basic tower		Nos.	35						
a.2)	Stub		Nos.	140						
b)	-4.5 m Leg Extension		Nos.	4						
c)	-3 m Leg Extension		Nos.	10						
d)	-1.5 m Leg Extension		Nos.	14						
e)	+/- 0 m Leg Extension		Nos.	88						
f)	+1.5 m Leg Extension		Nos.	14						
g)	+3 m Leg Extension		Nos.	10						
h)	+4.5 m Leg Extension		Nos.	8						
i)	+6 m Leg Extension		Nos.	16						
j)	+7.5 m Leg Extension		Nos.	6						
k)	+9 m Leg Extension		Nos.	18						



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			Unit	Quantity	FC		FC	LC		
					Currency#	Unit Rate			Amount	
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10	
1.1.3	Tension Tower DC									
a.1)	Basic tower		Nos.	18						
a.2)	Stub		Nos.	72						
b)	-4.5 m Leg Extension		Nos.	2						
c)	-3 m Leg Extension		Nos.	6						
d)	-1.5 m Leg Extension		Nos.	8						
e)	+/- 0 m Leg Extension		Nos.	44						
f)	+1.5 m Leg Extension		Nos.	4						
g)	+3 m Leg Extension		Nos.	8						
h)	+4.5 m Leg Extension		Nos.	4						
i)	+6 m Leg Extension		Nos.	8						
j)	+7.5 m Leg Extension		Nos.	2						
k)	+9 m Leg Extension		Nos.	6						
1.1.4	Tension Tower DD									
a.1)	Basic tower		Nos.	75						
a.2)	Stub		Nos.	300						
b)	-4.5 m Leg Extension		Nos.	8						
c)	-3 m Leg Extension		Nos.	14						
d)	-1.5 m Leg Extension		Nos.	30						
e)	+/- 0 m Leg Extension		Nos.	214						
f)	+1.5 m Leg Extension		Nos.	14						
g)	+3 m Leg Extension		Nos.	20						
h)	+4.5 m Leg Extension		Nos.	4						
i)	+6 m Leg Extension		Nos.	20						
j)	+7.5 m Leg Extension		Nos.	4						
k)	+9 m Leg Extension		Nos.	20						
l)	+18 m Leg Extension		Nos.	72						
m)	+25 m Leg Extension		Nos.	22						
1.1.5	Tension Tower DD Special									
a.1)	Basic tower		Nos.	11						
a.2)	Stub		Nos.	44						
b)	-4.5 m Leg Extension		Nos.	0						



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			Unit	Quantity	FC		FC	LC		
					Currency#	Unit Rate			Amount	
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10	
c)	-3 m Leg Extension		Nos.	0						
d)	-1.5 m Leg Extension		Nos.	0						
e)	+/- 0 m Leg Extension		Nos.	44						
f)	+1.5 m Leg Extension		Nos.	0						
g)	+3 m Leg Extension		Nos.	0						
h)	+4.5 m Leg Extension		Nos.	0						
i)	+6 m Leg Extension		Nos.	0						
j)	+7.5 m Leg Extension		Nos.	0						
k)	+9 m Leg Extension		Nos.	0						
l)	+18 m Leg Extension		Nos.	22						
m)	+25 m Leg Extension		Nos.	22						
1.1.6	Suspension Tower MA									
a.1)	Basic tower		Nos.	11						
a.2)	Stub		Nos.	44						
b)	-4.5 m Leg Extension		Nos.	0						
c)	-3 m Leg Extension		Nos.	2						
d)	-1.5 m Leg Extension		Nos.	3						
e)	+/- 0 m Leg Extension		Nos.	24						
f)	+1.5 m Leg Extension		Nos.	3						
g)	+3 m Leg Extension		Nos.	12						
h)	+4.5 m Leg Extension		Nos.	0						
i)	+6 m Leg Extension		Nos.	12						
j)	+7.5 m Leg Extension		Nos.	0						
k)	+9 m Leg Extension		Nos.	3						
1.1.7	Tension Tower MD									
a.1)	Basic tower		Nos.	15						
a.2)	Stub		Nos.	60						
b)	-4.5 m Leg Extension		Nos.	8						
c)	-3 m Leg Extension		Nos.	8						
d)	-1.5 m Leg Extension		Nos.	32						
e)	+/- 0 m Leg Extension		Nos.	8						
f)	+1.5 m Leg Extension		Nos.	4						
g)	+3 m Leg Extension		Nos.	0						
h)	+4.5 m Leg Extension		Nos.	38						
i)	+6 m Leg Extension		Nos.	0						
j)	+7.5 m Leg Extension		Nos.	19						
k)	+9 m Leg Extension		Nos.	0						



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			Unit	Quantity	FC		FC	LC		
					Currency#	Unit Rate			Amount	
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10	
1.1.8	Supply of Bolts & Nuts for towers including bolts and spring									
a)	Hexagonal bolts &nuts including step bolts for Normal Towers & Multicircuit Towers		MT	146						
2	Supply of Earthing of towers									
i.	Pipe Type		Nos.	133						
ii.	Counterpoise Type		Nos.	53						
3	Supply of following tower accessories									
i.	Danger Plate		Nos.	186						
ii.	Number Plate		Nos.	186						
iii.	Phase Plate (Set of three)		Sets	420						
iv.	Circuit Plate(Set of two)		Sets	420						
v.	Anti climbing device		Nos.	186						
vi.	Bird Guard(set of three)		Sets	90						
4	Supply of following Line Materials									
4.1	GS Earthwire									
i)	7/3.35mm Earthwire		KM	70						
4.2	Conductor									
i)	HTLS Conductor		KM	832						
ii)	ACSR Bison Conductor		KM	100						
4.3	Insulators for 220kV line with HTLS Conductor									
A.	Option-1: Composite Insulators									
(i)	120kN Composite Long Rod Insulator		Nos	678						
(ii)	160kN Composite Long Rod Insulator		Nos	3684						
B	Option-2: Disc Insulators									
(i)	120kN Disc Insulator		Nos	10848						
(ii)	160kN Disc Insulator		Nos	62628						
4.4	Hardware Fittings suitable for HTLS conductor									
i)	Double 'I' Suspension Insulator String (except clamps)		Sets	186						
ii)	Single 'I' Suspension PILOT String (except clamps)		Sets	306						
iii)	Double Tension Insulator String (except clamps)		Sets	1842						



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			Unit	Quantity	FC		FC	LC		
					Currency#	Unit Rate			Amount	
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10	
4.5	Clamps for Hardware fittings suitable for HTLS conductor									
i)	Suspension clamp suitable for suspension insulator strings		Sets	372						
ii)	Suspension clamp suitable for suspension pilot insulator strings		Sets	612						
iii)	Dead end clamp for tension insulator string		Sets	3684						
4.6	Insulators for 220kV ckt with Twin ACSR Bison									
A.	Option-1: Composite Insulators									
(i)	120kN Composite Long Rod Insulator		Nos	168						
(ii)	160kN Composite Long Rod Insulator		Nos	360						
B	Option-2: Disc Insulators									
(i)	120kN Disc Insulator		Nos	2688						
(ii)	160kN Disc Insulator		Nos	6120						
4.7	Hardware Fittings suitable for Twin Bison conductor									
i)	Single 'I' Suspension Insulator String with necessary clamps		Sets	63						
ii)	Double Tension Insulator String with necessary clamps		Sets	180						
iii)	Single 'I' Suspension PILOT String with necessary clamps		Sets	42						
4.8	Conductor and Earthwire Accessories									
i)	Mid span compression joint for HTLS conductor		Nos	508						
ii)	Mid span compression joint for ACSR Bison conductor		Nos	61						
iii)	Mid span compression joint for 7/3.35mm GS earthwire		Nos	41						
iv)	Repair Sleeve for HTLS conductor		Nos	153						
v)	Repair Sleeve for ACSR Bison conductor		Nos	19						
vi)	Flexible Copper Bond for 7/3.35mm GS Earthwire		Nos	376						
vii)	Vibration Damper for for 7/3.35mm GS Earthwire		Nos	752						
viii)	Vibration Damper for ACSR Bison conductor		Nos	932						
ix)	Rigid Spacer for HTLS conductor		Nos	2722						
x)	Rigid Spacer for ACSR Bison conductor		Nos	303						
xi)	Bundle Spacer for ACSR Bison conductor		Nos	945						
xii)	Earthwire Suspension Clamp		Nos	37						
xiii)	Earthwire Tension Clamp		Nos	303						
xiv)	Vibration Damper for HTLS conductor		Nos	8140						
xv)	Bundle Spacer for HTLS conductor		Nos	7236						
xvi)	Spacer damper for HTLS conductor (as an alternative to (xiv) & (xv))		Nos	7236						



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			Unit	Quantity	FC		FC	LC		
					Currency#	Unit Rate			Amount	
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10	
4.9	Supply of Fibre Cable & Accessories									
4.9.1	OPGW cable & Accessories									
i)	24 Fibre (DWSM) OPGW fibre optic cable		km	70						
ii)	Installation Hardware set for above 24 Fibre OPGW Fibre Optic cabling including all cable fittings & accessories except joint box									
a)	Suspension Assembly		Sets	30						
b)	Dead End Assembly		Sets	4						
c)	Tension Assembly (For joint Box Location)		Sets	42						
d)	Pass through Assembly		Sets	125						
e)	Special Fitting Assembly at suspension tower (for joint box locations)		Sets	2						
f)	Vibration Damper		Sets	600						
g)	Down Lead Clamp assemblies		No.	646						
iii)	Joint Box (24 fibre)		No.	21						
4.9.2	FODP									
i)	FODP 48F : Indoor Type, rack mounted with FCPC coupling and pig tails (5 mtrs each).		No.	4						
4.9.3	Fibre Optic approach cable									
i)	24 Fibre (DWSM)		Km.	2						
ii)	Installation hardware set for above 24 Fibre, Fibre Optic Approach Cable		Set	2						
4.10	Mandatory Spares of OPGW Cabling									
4.10.1	OPGW cable & Accessories									
i)	24 Fibre (DWSM) OPGW fibre optic cable		Km.	4						
ii)	Installation Hardware set for above 24 Fibre OPGW Fibre Optic cabling including all cable fittings & accessories except joint box									
a)	Suspension Assembly		Sets	2						
b)	Dead End Assembly		Sets	2						
c)	Tension Assembly (For joint Box Location)		Sets	1						
d)	Pass through Assembly		Sets	6						
e)	Special Fitting Assembly at suspension tower (for joint box locations)		Sets	1						
f)	Vibration Damper		Sets	30						
g)	Down Lead Clamp assemblies		No.	33						
iii)	Joint Box (24 fibre)		No.	1						

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			Unit	Quantity	FC		FC	LC		
					Currency#	Unit Rate			Amount	
1	2	3	4	5	6	7	8 = (7) x (5)	9=8	10	
4.10.2	Fibre Optic approach cable									
i)	24 Fibre (DWDM)		Km.	4						
ii)	Installation hardware set for above 24 Fibre, Approach Fibre Optic Cable		Set	1						
5	Supply of following items for aviation requirements									
i)	Span markers		Nos.	20						
ii)	Obstruction lights (to be provided as per IS 5613)									
a)	1 Medium + 2low intensity		Sets.	12						
b)	1 Medium + 4low intensity		Sets.	8						
6	Supply of following softwares									
i)	PLS-CADD (multiuser license for 10 users- with individual keys)		Set	1						
ii)	PLS-TOWER (multiuser license for 10 users- with individual keys)		Set	1						
	TOTAL (Total of column 9 to be carried forward to Schedule No. 5: Grand Summary)									

Note : 1) Bidder is required to quote prices in this Schedule for all the individual items/sub-items.

2.) The Prices of equipments are inclusive of type test charges except. towers, conductors and earthwires.

3.) BOQ given above is indicative only based on the scope of work as given in Employer's Requirements. The quantities mentioned above may undergo change during detailed engineering to meet the functional requirement and scope of work defined in Employer's Requirements.

Specify currency in accordance with BDS ITB Clause 19.1, Part-I of the Bidding Documents.

* Bidders should quote for one of the options for insulators.

Name of Bidder:

Signature of Bidder:

(Printed Name)

(Designation)

(Common Seal)

Date:

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Schedule No. 2: Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal including Type Test Charges

Item No.	Item Description	Unit	Quantity	Ex Factory Price (Excluding VAT)		Inland Transportation up to Site including insurance		Total Amount (Excluding Taxes)	VAT and other taxes	Total Amount
				Unit Rate	Amount	Unit Rate	Amount			
1	2	3	4	5	6=(4)x(5)	7	8=(4)x(7)	9=(6)+(8)	10	11=(9)+(10)
1.1	Design, fabrication & supply of following types of towers & tower extension parts complete with stubs, step bolts, hangers, D-shackles, bolts & nuts etc but excluding tower accessories such as danger plates, number plates, phase plates, anti-climbing devices									
1.1.1	Suspension Tower DA									
a.1)	Basic tower	Nos.	21							
a.2)	Stub	Nos.	84							
b)	-4.5 m Leg Extension	Nos.	4							
c)	-3 m Leg Extension	Nos.	6							
d)	-1.5 m Leg Extension	Nos.	8							
e)	+/- 0 m Leg Extension	Nos.	30							
f)	+1.5 m Leg Extension	Nos.	8							
g)	+3 m Leg Extension	Nos.	28							
h)	+4.5 m Leg Extension	Nos.	2							
i)	+6 m Leg Extension	Nos.	12							
j)	+7.5 m Leg Extension	Nos.	2							
k)	+9 m Leg Extension	Nos.	8							
l)	+18 m Leg Extension	Nos.	3							
m)	+25 m Leg Extension	Nos.	3							
1.1.2	Tension Tower DB									
a.1)	Basic tower	Nos.	35							
a.2)	Stub	Nos.	140							
b)	-4.5 m Leg Extension	Nos.	4							
c)	-3 m Leg Extension	Nos.	10							
d)	-1.5 m Leg Extension	Nos.	14							
e)	+/- 0 m Leg Extension	Nos.	88							
f)	+1.5 m Leg Extension	Nos.	14							
g)	+3 m Leg Extension	Nos.	10							
h)	+4.5 m Leg Extension	Nos.	8							
i)	+6 m Leg Extension	Nos.	16							
j)	+7.5 m Leg Extension	Nos.	6							
k)	+9 m Leg Extension	Nos.	18							



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Schedule No. 2: Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal including Type Test Charges

Item No.	Item Description	Unit	Quantity	Ex Factory Price (Excluding VAT)		Inland Transportation up to Site including insurance		Total Amount (Excluding Taxes)	VAT and other taxes	Total Amount
				Unit Rate	Amount	Unit Rate	Amount			
1	2	3	4	5	6=(4)x(5)	7	8=(4)x(7)	9=(6)+(8)	10	11=(9)+(10)
1.1.3	Tension Tower DC									
a.1)	Basic tower	Nos.	18							
a.2)	Stub	Nos.	72							
b)	-4.5 m Leg Extension	Nos.	2							
c)	-3 m Leg Extension	Nos.	6							
d)	-1.5 m Leg Extension	Nos.	8							
e)	+/- 0 m Leg Extension	Nos.	44							
f)	+1.5 m Leg Extension	Nos.	4							
g)	+3 m Leg Extension	Nos.	8							
h)	+4.5 m Leg Extension	Nos.	4							
i)	+6 m Leg Extension	Nos.	8							
j)	+7.5 m Leg Extension	Nos.	2							
k)	+9 m Leg Extension	Nos.	6							
1.1.4	Tension Tower DD									
a.1)	Basic tower	Nos.	75							
a.2)	Stub	Nos.	300							
b)	-4.5 m Leg Extension	Nos.	8							
c)	-3 m Leg Extension	Nos.	14							
d)	-1.5 m Leg Extension	Nos.	30							
e)	+/- 0 m Leg Extension	Nos.	214							
f)	+1.5 m Leg Extension	Nos.	14							
g)	+3 m Leg Extension	Nos.	20							
h)	+4.5 m Leg Extension	Nos.	4							
i)	+6 m Leg Extension	Nos.	20							
j)	+7.5 m Leg Extension	Nos.	4							
k)	+9 m Leg Extension	Nos.	20							
l)	+18 m Leg Extension	Nos.	72							
m)	+25 m Leg Extension	Nos.	22							
1.1.5	Tension Tower DD Special									
a.1)	Basic tower	Nos.	11							
a.2)	Stub	Nos.	44							
b)	-4.5 m Leg Extension	Nos.	0							
c)	-3 m Leg Extension	Nos.	0							
d)	-1.5 m Leg Extension	Nos.	0							
e)	+/- 0 m Leg Extension	Nos.	44							

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Schedule No. 2: Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal including Type Test Charges

Item No.	Item Description	Unit	Quantity	Ex Factory Price (Excluding VAT)		Inland Transportation up to Site including insurance		Total Amount (Excluding Taxes)	VAT and other taxes	Total Amount
				Unit Rate	Amount	Unit Rate	Amount			
1	2	3	4	5	6=(4)x(5)	7	8=(4)x(7)	9=(6)+(8)	10	11=(9)+(10)
f)	+1.5 m Leg Extension	Nos.	0							
g)	+3 m Leg Extension	Nos.	0							
h)	+4.5 m Leg Extension	Nos.	0							
i)	+6 m Leg Extension	Nos.	0							
j)	+7.5 m Leg Extension	Nos.	0							
k)	+9 m Leg Extension	Nos.	0							
l)	+18 m Leg Extension	Nos.	22							
m)	+25 m Leg Extension	Nos.	22							
1.1.6	Suspension Tower MA									
a.1)	Basic tower	Nos.	11							
a.2)	Stub	Nos.	44							
b)	-4.5 m Leg Extension	Nos.	0							
c)	-3 m Leg Extension	Nos.	2							
d)	-1.5 m Leg Extension	Nos.	3							
e)	+/- 0 m Leg Extension	Nos.	24							
f)	+1.5 m Leg Extension	Nos.	3							
g)	+3 m Leg Extension	Nos.	12							
h)	+4.5 m Leg Extension	Nos.	0							
i)	+6 m Leg Extension	Nos.	12							
j)	+7.5 m Leg Extension	Nos.	0							
k)	+9 m Leg Extension	Nos.	3							
1.1.7	Tension Tower MD									
a.1)	Basic tower	Nos.	15							
a.2)	Stub	Nos.	60							
b)	-4.5 m Leg Extension	Nos.	8							
c)	-3 m Leg Extension	Nos.	8							
d)	-1.5 m Leg Extension	Nos.	32							

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Schedule No. 2: Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal including Type Test Charges

Item No.	Item Description	Unit	Quantity	Ex Factory Price (Excluding VAT)		Inland Transportation up to Site including insurance		Total Amount (Excluding Taxes)	VAT and other taxes	Total Amount
				Unit Rate	Amount	Unit Rate	Amount			
1	2	3	4	5	6=(4)x(5)	7	8=(4)x(7)	9=(6)+(8)	10	11=(9)+(10)
e)	+/- 0 m Leg Extension	Nos.	8							
f)	+1.5 m Leg Extension	Nos.	4							
g)	+3 m Leg Extension	Nos.	0							
h)	+4.5 m Leg Extension	Nos.	38							
i)	+6 m Leg Extension	Nos.	0							
j)	+7.5 m Leg Extension	Nos.	19							
k)	+9 m Leg Extension	Nos.	0							
1.1.8	Supply of Bolts & Nuts for towers including bolts and spring washer									
a)	Hexagonal bolts &nuts including step bolts for Normal Towers & Multicircuit Towers	MT	146							
2	Supply of Earthing of towers									
i.	Pipe Type	Nos.	133							
ii.	Counterpoise Type	Nos.	53							
3	Supply of following tower accessories									
i.	Danger Plate	Nos.	186							
ii.	Number Plate	Nos.	186							
iii.	Phase Plate (Set of three)	Sets	420							
iv.	Circuit Plate(Set of two)	Sets	420							
v.	Anti climbing device	Nos.	186							
vi.	Bird Guard(set of three)	Sets	90							
4	Supply of following Line Materials									
4.1	GS Earthwire									
i)	7/3.35mm Earthwire	KM	70							
4.2	Conductor									
i)	HTLS Conductor	KM	832							
ii)	ACSR Bison Conductor	KM	100							

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Schedule No. 2: Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal including Type Test Charges

Item No.	Item Description	Unit	Quantity	Ex Factory Price (Excluding VAT)		Inland Transportation up to Site including insurance		Total Amount (Excluding Taxes)	VAT and other taxes	Total Amount
				Unit Rate	Amount	Unit Rate	Amount			
1	2	3	4	5	6=(4)x(5)	7	8=(4)x(7)	9=(6)+(8)	10	11=(9)+(10)
4.3	Insulators for 220kV line with HTLS Conductor									
A.	Option-1: Composite Insulators									
(i)	120kN Composite Long Rod Insulator	Nos	678							
(ii)	160kN Composite Long Rod Insulator	Nos	3684							
B	Option-2: Disc Insulators									
(i)	120kN Disc Insulator	Nos	10848							
(ii)	160kN Disc Insulator	Nos	62628							
4.4	Hardware Fittings suitable for HTLS conductor									
i)	Single "I" Suspension Insulator String (except clamps)	Sets	186							
ii)	Single 'I' Suspension PILOT String (except clamps)	Sets	306							
iii)	Double Tension Insulator String (except clamps)	Sets	1842							
4.5	Clamps for Hardware fittings suitable for HTLS conductor									
i)	Suspension clamp suitable for suspension insulator strings	Sets	372							
ii)	Suspension clamp suitable for suspension pilot insulator strings	Sets	612							
iii)	Dead end clamp for tension insulator string	Sets	3684							
4.6	Insulators for 220kV ckts with Twin ACSR Bison									
A.	Option-1: Composite Insulators									
(i)	120kN Composite Long Rod Insulator	Nos	168							
(ii)	160kN Composite Long Rod Insulator	Nos	360							
B	Option-2: Disc Insulators									
(i)	120kN Disc Insulator	Nos	2688							
(ii)	160kN Disc Insulator	Nos	6120							
4.7	Hardware Fittings suitable for Twin Bison conductor									
i)	Single "I" Suspension Insulator String	Sets	63							
ii)	Double Tension Insulator String	Sets	180							
iii)	Single 'I' Suspension PILOT String	Sets	42							

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Schedule No. 2: Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal including Type Test Charges

Item No.	Item Description	Unit	Quantity	Ex Factory Price (Excluding VAT)		Inland Transportation up to Site including insurance		Total Amount (Excluding Taxes)	VAT and other taxes	Total Amount
				Unit Rate	Amount	Unit Rate	Amount			
1	2	3	4	5	6=(4)x(5)	7	8=(4)x(7)	9=(6)+(8)	10	11=(9)+(10)
4.8	Conductor and Earthwire Accessories									
i)	Mid span compression joint for HTLS conductor	Nos	508							
ii)	Mid span compression joint for ACSR Bison conductor	Nos	61							
iii)	Mid span compression joint for 7/3.35mm GS earthwire	Nos	41							
iv)	Repair Sleeve for HTLS conductor	Nos	153							
v)	Repair Sleeve for ACSR Bison conductor	Nos	19							
vi)	Flexible Copper Bond for 7/3.35mm GS Earthwire	Nos	376							
vii)	Vibration Damper for for 7/3.35mm GS Earthwire	Nos	752							
viii)	Vibration Damper for ACSR Bison conductor	Nos	932							
ix)	Rigid Spacer for HTLS conductor	Nos	2722							
x)	Rigid Spacer for ACSR Bison conductor	Nos	303							
xi)	Bundle Spacer for ACSR Bison conductor	Nos	945							
xii)	Earthwire Suspension Clamp	Nos	37							
xiii)	Earthwire Tension Clamp	Nos	303							
xiv)	Vibration Damper for HTLS conductor	Nos	8140							
xv)	Bundle Spacer for HTLS conductor	Nos	7236							
xvi)	Spacer damper for HTLS conductor (as an alternative to (xiv) & (xv))	Nos	7236							
4.9	Supply of Fibre Cable & Accessories									
4.9.1	OPGW cable & Accessories									
i)	24 Fibre (DWSM) OPGW fibre optic cable	km	70							
ii)	Installation Hardware set for above 24 Fibre OPGW Fibre Optic cabling including all cable fittings & accessories except joint box									
a)	Suspension Assembly	Sets	30							
b)	Dead End Assembly	Sets	4							
c)	Tension Assembly (For joint Box Location)	Sets	4							
d)	Pass through Assembly	Sets	125							
e)	Special Fitting Assembly at suspension tower (for joint box locations)	Sets	2							
f)	Vibration Damper	Sets	600							
g)	Down Lead Clamp assemblies	No.	646							
iii)	Joint Box (24 fibre)	No.	21							

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Schedule No. 2: Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal including Type Test Charges

Item No.	Item Description	Unit	Quantity	Ex Factory Price (Excluding VAT)		Inland Transportation up to Site including insurance		Total Amount (Excluding Taxes)	VAT and other taxes	Total Amount
				Unit Rate	Amount	Unit Rate	Amount			
1	2	3	4	5	6=(4)x(5)	7	8=(4)x(7)	9=(6)+(8)	10	11=(9)+(10)
4.9.2	FODP									
i)	FODP 48F : Indoor Type, rack mounted with FCPC coupling and pig tails (5 mtrs each).	No.	4							
4.9.3	Fibre Optic approach cable									
i)	24 Fibre (DWSM)	Km.	2							
ii)	Installation hardware set for above 24 Fibre, Fibre Optic Approach Cable	Set	2							
4.10	Mandatory Spares of OPGW Cabling									
4.10.1	OPGW cable & Accessories									
i)	24 Fibre (DWSM) OPGW fibre optic cable	Km.	4							
ii)	Installation Hardware set for above 24 Fibre OPGW Fibre Optic cabling including all cable fittings & accessories except joint box									
a)	Suspension Assembly	Sets	2							
b)	Dead End Assembly	Sets	2							
c)	Tension Assembly (For joint Box Location)	Sets	1							
d)	Pass through Assembly	Sets	6							
e)	Special Fitting Assembly at suspension tower (for joint box locations)	Sets	1							
f)	Vibration Damper	Sets	30							
g)	Down Lead Clamp assemblies	No.	33							
iii)	Joint Box (24 fibre)	No.	1							
4.10.2	Fibre Optic approach cable									
i)	24 Fibre (DWSM)	Km.	4							
ii)	Installation hardware set for above 24 Fibre, Approach Fibre Optic Cable	Set	1							

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Schedule No. 2: Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal including Type Test Charges

Item No.	Item Description	Unit	Quantity	Ex Factory Price (Excluding VAT)		Inland Transportation up to Site including insurance		Total Amount (Excluding Taxes)	VAT and other taxes	Total Amount
				Unit Rate	Amount	Unit Rate	Amount			
1	2	3	4	5	6=(4)x(5)	7	8=(4)x(7)	9=(6)+(8)	10	11=(9)+(10)
5	Supply of following items for aviation requirements									
	i) Span markers	Nos.	20							
	ii) Obstruction lights (to be provided as per IS 5613)									
	a) 1 Medium + 2low intensity	Sets.	12							
	b) 1 Medium + 4low intensity	Sets.	8							
6	Supply of following softwares									
i)	PLS-CADD (multiuser license for 10 users- with individual keys)	Set	1							
ii)	PLS-TOWER (multiuser license for 10 users- with individual keys)	Set	1							
	Total Ex-works Price (Total of column 9 to be carried forward to Schedule No. 5A: Grand Summary)									

- Note :** 1) Bidder is required to quote prices in this Schedule for all the individual items/sub-items.
2.) The Prices of equipment are inclusive of type test charges except towers, conductors and earthwires.
3.) BOQ given above is indicative only based on the scope of work as given in Employer's Requirements. The quantities mentioned above may undergo change during detailed engineering to meet the functional requirement and scope of work defined in Employer's Requirements.
4) For Bought out items, all applicable taxes, duties and levies except Octroi/Entry tax are to be included in the Ex Works Price (Col 5.)
Specify currency in accordance with BDS ITB Clause 19.1, Part-I of the Bidding Documents.
* Bidders should quote for one of the options for insulators.

Name of Bidder:

Date:

Signature of Bidder:

(Printed Name)

(Designation)

(Common Seal)

NEPAL ELECTRICITY AUTHORITY
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Schedule -3: Design Services

Item No.	Item Description	Estimated		Unit Prices			Total Prices	
				Local Currency portion	Foreign Currency Portion		LC	FC
		Quantity	Unit	NRs	Currency#	Unit Rate		
1	2	3	4	5	6	7	8=3x5	9=3x7
1	Tower Type DA, DB, DC, DD, MA, DDspl., MD	1	Lot					
	Total (Total of column 8 and 9 to be carried forward to Schedule No. 5: Grand Summary)							

Name of Bidder:

Date:

Signature of Bidder:

(Printed Name)

(Designation)

(Common Seal)

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Schedule No. 4: Installation and other Services
(a): Installation and Construction Charges

Sl. No.	Item Description	Unit	Qty.	Installation Charges				
				Portion in Foreign Currency			Portion in Nepal Currency (in NRs)	
				Currency#	Unit Rate	Amount	Unit Rate in NRs	Amount NRs
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)x(6)	(8)	(9)=(4)x(8)
1	Survey							
	a) Detailed survey including route alignment, profiling, tower spotting	KM	12					
	b) Check Survey including route alignment, profiling, tower spotting	KM	67					
2	Detailed soil Investigation							
	i. All kind of soil except FR & HR	Loc.	29					
	ii. Fissured/soft rock	Loc.	19					
	iii. Hard rock	Loc.	12					
	iv. River crossing location	Loc.	1					
3	Benching							
	i) All kind of soil except FR & HR	Cum.	10900					
	ii) Fissured Rock	Cum.	7350					
	iii) Hard Rock	Cum.	3250					
4	Work associated with tower foundations.							
4.1	Suspension Tower DA							
	a) Foundation for Basic Body (including -4.5m, -3m, -1.5m, +/- 0m leg Extension)							
	i) Dry Foundation	Nos.	1					
	ii) Wet Foundation	Nos.	1					
	iii) Partially Submerged Foundation	Nos.	0					
	iv) Fully Submerged Foundation	Nos.	1					
	v) Wet Black Cotton Foundation	Nos.	1					
	vi) Dry Fissured Rock	Nos.	1					
	vii) Wet Fissured Rock	Nos.	0					
	viii) Submerged Fissured Rock	Nos.	0					
	ix) Hard Rock Foundation	Nos.	1					
	x) Sandy Soil Foundation	Nos.	0					

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Schedule No. 4: Installation and other Services
(a): Installation and Construction Charges

Sl. No.	Item Description	Unit	Qty.	Installation Charges				
				Portion in Foreign Currency			Portion in Nepal Currency (in NRs)	
				Currency#	Unit Rate	Amount	Unit Rate in NRs	Amount NRs
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)x(6)	(8)	(9)=(4)x(8)
b)	Common Foundation for +1.5m, +3m, +4.5m +6m, +7.5m, +9m leg Extension							
i)	Dry Foundation	Nos.	1					
ii)	Wet Foundation	Nos.	3					
iii)	Partially Submerged Foundation	Nos.	0					
iv)	Fully Submerged Foundation	Nos.	1					
v)	Wet Black Cotton Foundation	Nos.	2					
vi)	Dry Fissured Rock	Nos.	1					
vii)	Wet Fissured Rock	Nos.	0					
viii)	Submerged Fissured Rock	Nos.	0					
ix)	Hard Rock Foundation	Nos.	4					
x)	Sandy Soil Foundation	Nos.	0					
c)	Common Foundation for +18m, +25m leg Extension							
i)	Dry Foundation	Nos.	0					
ii)	Wet Foundation	Nos.	0					
iii)	Partially Submerged Foundation	Nos.	0					
iv)	Fully Submerged Foundation	Nos.	0					
v)	Wet Black Cotton Foundation	Nos.	0					
vi)	Dry Fissured Rock	Nos.	1					
vii)	Wet Fissured Rock	Nos.	0					
viii)	Submerged Fissured Rock	Nos.	0					
ix)	Hard Rock Foundation	Nos.	1					
x)	Sandy Soil Foundation	Nos.	0					
4.2	Tension Tower DB							
a)	Foundation for Basic Body (including -4.5m, -3m, -1.5m, +/- 0m leg Extension)							
i)	Dry Foundation	Nos.	1					
ii)	Wet Foundation	Nos.	3					
iii)	Partially Submerged Foundation	Nos.	1					
iv)	Fully Submerged Foundation	Nos.	3					
v)	Wet Black Cotton Foundation	Nos.	3					
vi)	Dry Fissured Rock	Nos.	1					
vii)	Wet Fissured Rock	Nos.	1					
viii)	Submerged Fissured Rock	Nos.	1					
ix)	Hard Rock Foundation	Nos.	3					
x)	Sandy Soil Foundation	Nos.	1					

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Schedule No. 4: Installation and other Services
(a): Installation and Construction Charges

Sl. No.	Item Description	Unit	Qty.	Installation Charges				
				Portion in Foreign Currency			Portion in Nepal Currency (in NRs)	
				Currency#	Unit Rate	Amount	Unit Rate in NRs	Amount NRs
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)x(6)	(8)	(9)=(4)x(8)
b)	Common Foundation for +1.5m, +3m, +4.5m +6m, +7.5m, +9m leg Extension							
i)	Dry Foundation	Nos.	0					
ii)	Wet Foundation	Nos.	3					
iii)	Partially Submerged Foundation	Nos.	1					
iv)	Fully Submerged Foundation	Nos.	4					
v)	Wet Black Cotton Foundation	Nos.	3					
vi)	Dry Fissured Rock	Nos.	1					
vii)	Wet Fissured Rock	Nos.	0					
viii)	Submerged Fissured Rock	Nos.	0					
ix)	Hard Rock Foundation	Nos.	4					
x)	Sandy Soil Foundation	Nos.	0					
4.3	Tension Tower DC							
a)	Foundation for Basic Body (including -4.5m, -3m, -1.5m, +/- 0m leg Extension)							
i)	Dry Foundation	Nos.	3					
ii)	Wet Foundation	Nos.	1					
iii)	Partially Submerged Foundation	Nos.	1					
iv)	Fully Submerged Foundation	Nos.	1					
v)	Wet Black Cotton Foundation	Nos.	0					
vi)	Dry Fissured Rock	Nos.	1					
vii)	Wet Fissured Rock	Nos.	0					
viii)	Submerged Fissured Rock	Nos.	0					
ix)	Hard Rock Foundation	Nos.	1					
x)	Sandy Soil Foundation	Nos.	0					
b)	Common Foundation for +1.5m, +3m, +4.5m +6m, +7.5m, +9m leg Extension							
i)	Dry Foundation	Nos.	1					
ii)	Wet Foundation	Nos.	1					
iii)	Partially Submerged Foundation	Nos.	1					
iv)	Fully Submerged Foundation	Nos.	1					
v)	Wet Black Cotton Foundation	Nos.	1					
vi)	Dry Fissured Rock	Nos.	1					
vii)	Wet Fissured Rock	Nos.	0					
viii)	Submerged Fissured Rock	Nos.	0					
ix)	Hard Rock Foundation	Nos.	3					
x)	Sandy Soil Foundation	Nos.	0					



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Schedule No. 4: Installation and other Services
(a): Installation and Construction Charges

Sl. No.	Item Description	Unit	Qty.	Installation Charges				
				Portion in Foreign Currency			Portion in Nepal Currency (in NRs)	
				Currency#	Unit Rate	Amount	Unit Rate in NRs	Amount NRs
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)x(6)	(8)	(9)=(4)x(8)
4.4	Tension Tower DD							
a)	Foundation for Basic Body (including -4.5m, -3m, -1.5m, +/- 0m leg Extension)							
i)	Dry Foundation	Nos.	4					
ii)	Wet Foundation	Nos.	2					
iii)	Partially Submerged Foundation	Nos.	4					
iv)	Fully Submerged Foundation	Nos.	5					
v)	Wet Black Cotton Foundation	Nos.	3					
vi)	Dry Fissured Rock	Nos.	4					
vii)	Wet Fissured Rock	Nos.	2					
viii)	Submerged Fissured Rock	Nos.	2					
ix)	Hard Rock Foundation	Nos.	6					
x)	Sandy Soil Foundation	Nos.	2					
b)	Common Foundation for +1.5m, +3m, +4.5m +6m, +7.5m, +9m leg Extension							
i)	Dry Foundation	Nos.	0					
ii)	Wet Foundation	Nos.	4					
iii)	Partially Submerged Foundation	Nos.	2					
iv)	Fully Submerged Foundation	Nos.	1					
v)	Wet Black Cotton Foundation	Nos.	2					
vi)	Dry Fissured Rock	Nos.	1					
vii)	Wet Fissured Rock	Nos.	0					
viii)	Submerged Fissured Rock	Nos.	1					
ix)	Hard Rock Foundation	Nos.	2					
x)	Sandy Soil Foundation	Nos.	2					
c)	Common Foundation for +18m, +25m leg Extension							
i)	Dry Foundation	Nos.	2					
ii)	Wet Foundation	Nos.	3					
iii)	Partially Submerged Foundation	Nos.	2					
iv)	Fully Submerged Foundation	Nos.	3					
v)	Wet Black Cotton Foundation	Nos.	3					
vi)	Dry Fissured Rock	Nos.	3					
vii)	Wet Fissured Rock	Nos.	1					
viii)	Submerged Fissured Rock	Nos.	1					
ix)	Hard Rock Foundation	Nos.	4					
x)	Sandy Soil Foundation	Nos.	3					

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Schedule No. 4: Installation and other Services
(a): Installation and Construction Charges

Sl. No.	Item Description	Unit	Qty.	Installation Charges				
				Portion in Foreign Currency			Portion in Nepal Currency (in NRs)	
				Currency#	Unit Rate	Amount	Unit Rate in NRs	Amount NRs
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)x(6)	(8)	(9)=(4)x(8)
4.5	Tension Tower Special							
a)	Foundation for Basic Body (including -4.5m, -3m, -1.5m, +/- 0m leg Extension)							
i)	Dry Foundation	Nos.	3					
ii)	Wet Foundation	Nos.	2					
iii)	Partially Submerged Foundation	Nos.	0					
iv)	Fully Submerged Foundation	Nos.	0					
v)	Wet Black Cotton Foundation	Nos.	0					
vi)	Dry Fissured Rock	Nos.	3					
vii)	Wet Fissured Rock	Nos.	0					
viii)	Submerged Fissured Rock	Nos.	0					
ix)	Hard Rock Foundation	Nos.	0					
x)	Sandy Soil Foundation	Nos.	0					
b)	Common Foundation for +18m, +25m leg Extension							
i)	Dry Foundation	Nos.	1					
ii)	Wet Foundation	Nos.	1					
iii)	Partially Submerged Foundation	Nos.	0					
iv)	Fully Submerged Foundation	Nos.	0					
v)	Wet Black Cotton Foundation	Nos.	0					
vi)	Dry Fissured Rock	Nos.	0					
vii)	Wet Fissured Rock	Nos.	0					
viii)	Submerged Fissured Rock	Nos.	0					
ix)	Hard Rock Foundation	Nos.	0					
x)	Sandy Soil Foundation	Nos.	0					
4.6	Suspension Tower MA							
a)	Foundation for Basic Body (including -4.5m, -3m, -1.5m, +/- 0m leg Extension)							
i)	Dry Foundation	Nos.	3					
ii)	Wet Foundation	Nos.	1					
iii)	Partially Submerged Foundation	Nos.	0					
iv)	Fully Submerged Foundation	Nos.	1					
v)	Wet Black Cotton Foundation	Nos.	0					
vi)	Dry Fissured Rock	Nos.	1					
vii)	Wet Fissured Rock	Nos.	0					
viii)	Submerged Fissured Rock	Nos.	0					
ix)	Hard Rock Foundation	Nos.	0					

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Schedule No. 4: Installation and other Services

(a): Installation and Construction Charges

Sl. No.	Item Description	Unit	Qty.	Installation Charges				
				Portion in Foreign Currency			Portion in Nepal Currency (in NRs)	
				Currency#	Unit Rate	Amount	Unit Rate in NRs	Amount NRs
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)x(6)	(8)	(9)=(4)x(8)
x)	Sandy Soil Foundation	Nos.	0					
b)	Common Foundation for +1.5m, +3m, +4.5m +6m, +7.5m, +9m leg Extension							
i)	Dry Foundation	Nos.	0					
ii)	Wet Foundation	Nos.	2					
iii)	Partially Submerged Foundation	Nos.	0					
iv)	Fully Submerged Foundation	Nos.	2					
v)	Wet Black Cotton Foundation	Nos.	0					
vi)	Dry Fissured Rock	Nos.	0					
vii)	Wet Fissured Rock	Nos.	0					
viii)	Submerged Fissured Rock	Nos.	0					
ix)	Hard Rock Foundation	Nos.	0					
x)	Sandy Soil Foundation	Nos.	0					
4.7	Tension Tower MD							
a)	Foundation for Basic Body (including -4.5m, -3m, -1.5m, +/- 0m leg Extension)							
i)	Dry Foundation	Nos.	7					
ii)	Wet Foundation	Nos.	1					
iii)	Partially Submerged Foundation	Nos.	0					
iv)	Fully Submerged Foundation	Nos.	0					
v)	Wet Black Cotton Foundation	Nos.	0					
vi)	Dry Fissured Rock	Nos.	0					
vii)	Wet Fissured Rock	Nos.	0					
viii)	Submerged Fissured Rock	Nos.	0					
ix)	Hard Rock Foundation	Nos.	0					
x)	Sandy Soil Foundation	Nos.	0					
b)	Common Foundation for +1.5m, +3m, +4.5m +6m, +7.5m, +9m leg Extension							
i)	Dry Foundation	Nos.	2					
ii)	Wet Foundation	Nos.	1					
iii)	Partially Submerged Foundation	Nos.	1					
iv)	Fully Submerged Foundation	Nos.	0					
v)	Wet Black Cotton Foundation	Nos.	0					
vi)	Dry Fissured Rock	Nos.	2					
vii)	Wet Fissured Rock	Nos.	0					
viii)	Submerged Fissured Rock	Nos.	0					

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Schedule No. 4: Installation and other Services
 (a): Installation and Construction Charges

Sl. No.	Item Description	Unit	Qty.	Installation Charges				
				Portion in Foreign Currency			Portion in Nepal Currency (in NRs)	
				Currency#	Unit Rate	Amount	Unit Rate in NRs	Amount NRs
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)x(6)	(8)	(9)=(4)x(8)
ix)	Hard Rock Foundation	Nos.	0					
x)	Sandy Soil Foundation	Nos.	0					
5	Erection of following types of towers & tower extension parts complete with stubs, step bolts, hangers, D-shackles, bolts & nuts etc but excluding tower accessories such as danger plates, number plates, phase plates, anti-climbing devices							
5.1	Suspension Tower DA							
a)	Basic tower	Nos.	20					
b)	-4.5 m Leg Extension	Nos.	4					
c)	-3 m Leg Extension	Nos.	6					
d)	-1.5 m Leg Extension	Nos.	8					
e)	+/- 0 m Leg Extension	Nos.	28					
f)	+1.5 m Leg Extension	Nos.	8					
g)	+3 m Leg Extension	Nos.	26					
h)	+4.5 m Leg Extension	Nos.	2					
i)	+6 m Leg Extension	Nos.	12					
j)	+7.5 m Leg Extension	Nos.	2					
k)	+9 m Leg Extension	Nos.	8					
l)	+18 m Leg Extension	Nos.	3					
m)	+25 m Leg Extension	Nos.	3					
5.2	Tension Tower DB							
a)	Basic tower	Nos.	34					
b)	-4.5 m Leg Extension	Nos.	4					
c)	-3 m Leg Extension	Nos.	10					
d)	-1.5 m Leg Extension	Nos.	14					
e)	+/- 0 m Leg Extension	Nos.	84					
f)	+1.5 m Leg Extension	Nos.	14					
g)	+3 m Leg Extension	Nos.	10					
h)	+4.5 m Leg Extension	Nos.	8					
i)	+6 m Leg Extension	Nos.	16					
j)	+7.5 m Leg Extension	Nos.	6					
k)	+9 m Leg Extension	Nos.	18					



NEPAL ELECTRICITY AUTHORITY
PROJECT MANAGEMENT DIRECTORATE
Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

Schedule No. 4: Installation and other Services
(a): Installation and Construction Charges

Sl. No.	Item Description	Unit	Qty.	Installation Charges				
				Portion in Foreign Currency			Portion in Nepal Currency (in NRs)	
				Currency#	Unit Rate	Amount	Unit Rate in NRs	Amount NRs
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)x(6)	(8)	(9)=(4)x(8)
5.3	Tension Tower DC							
a)	Basic tower	Nos.	17					
b)	-4.5 m Leg Extension	Nos.	2					
c)	-3 m Leg Extension	Nos.	6					
d)	-1.5 m Leg Extension	Nos.	8					
e)	+/- 0 m Leg Extension	Nos.	40					
f)	+1.5 m Leg Extension	Nos.	4					
g)	+3 m Leg Extension	Nos.	8					
h)	+4.5 m Leg Extension	Nos.	4					
i)	+6 m Leg Extension	Nos.	8					
j)	+7.5 m Leg Extension	Nos.	2					
k)	+9 m Leg Extension	Nos.	6					
5.4	Tension Tower DD							
a)	Basic tower	Nos.	74					
b)	-4.5 m Leg Extension	Nos.	8					
c)	-3 m Leg Extension	Nos.	14					
d)	-1.5 m Leg Extension	Nos.	30					
e)	+/- 0 m Leg Extension	Nos.	210					
f)	+1.5 m Leg Extension	Nos.	14					
g)	+3 m Leg Extension	Nos.	20					
h)	+4.5 m Leg Extension	Nos.	4					
i)	+6 m Leg Extension	Nos.	20					
j)	+7.5 m Leg Extension	Nos.	4					
k)	+9 m Leg Extension	Nos.	20					
l)	+18 m Leg Extension	Nos.	72					
m)	+25 m Leg Extension	Nos.	22					
5.5	Tension Tower DD Special							
a)	Basic tower	Nos.	10					
b)	-4.5 m Leg Extension	Nos.	0					
c)	-3 m Leg Extension	Nos.	0					
d)	-1.5 m Leg Extension	Nos.	0					

NEPAL ELECTRICITY AUTHORITY
PROJECT MANAGEMENT DIRECTORATE
Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

Schedule No. 4: Installation and other Services

(a): Installation and Construction Charges

Sl. No.	Item Description	Unit	Qty.	Installation Charges				
				Portion in Foreign Currency			Portion in Nepal Currency (in NRs)	
				Currency#	Unit Rate	Amount	Unit Rate in NRs	Amount NRs
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)x(6)	(8)	(9)=(4)x(8)
e)	+/- 0 m Leg Extension	Nos.	40					
f)	+1.5 m Leg Extension	Nos.	0					
g)	+3 m Leg Extension	Nos.	0					
h)	+4.5 m Leg Extension	Nos.	0					
i)	+6 m Leg Extension	Nos.	0					
j)	+7.5 m Leg Extension	Nos.	0					
k)	+9 m Leg Extension	Nos.	0					
l)	+18 m Leg Extension	Nos.	22					
m)	+25 m Leg Extension	Nos.	22					
5.6	Suspension Tower MA							
a)	Basic tower	Nos.	10					
b)	-4.5 m Leg Extension	Nos.	0					
c)	-3 m Leg Extension	Nos.	2					
d)	-1.5 m Leg Extension	Nos.	3					
e)	+/- 0 m Leg Extension	Nos.	20					
f)	+1.5 m Leg Extension	Nos.	3					
g)	+3 m Leg Extension	Nos.	12					
h)	+4.5 m Leg Extension	Nos.	0					
i)	+6 m Leg Extension	Nos.	12					
j)	+7.5 m Leg Extension	Nos.	0					
k)	+9 m Leg Extension	Nos.	3					
5.7	Tension Tower MD							
a)	Basic tower	Nos.	14					
b)	-4.5 m Leg Extension	Nos.	0					
c)	-3 m Leg Extension	Nos.	8					
d)	-1.5 m Leg Extension	Nos.	8					
e)	+/- 0 m Leg Extension	Nos.	28					

NEPAL ELECTRICITY AUTHORITY
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Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

Schedule No. 4: Installation and other Services

(a): Installation and Construction Charges

Sl. No.	Item Description	Unit	Qty.	Installation Charges				
				Portion in Foreign Currency			Portion in Nepal Currency (in NRs)	
				Currency#	Unit Rate	Amount	Unit Rate in NRs	Amount NRs
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)x(6)	(8)	(9)=(4)x(8)
f)	+1.5 m Leg Extension	Nos.	8					
g)	+3 m Leg Extension	Nos.	4					
h)	+4.5 m Leg Extension	Nos.	0					
i)	+6 m Leg Extension	Nos.	38					
j)	+7.5 m Leg Extension	Nos.	0					
k)	+9 m Leg Extension	Nos.	19					
6	Installation of Earthing of towers							
i.	Pipe Type	Nos.	133					
ii.	Counterpoise Type	Nos.	53					
7	Installation of following tower accessories							
i.	Danger Plate	Nos.	186					
ii.	Number Plate	Nos.	186					
iii.	Phase Plate (Set of three)	Sets	420					
iv.	Circuit Plate(Set of two)	Sets	420					
v.	Anti climbing device	Nos.	186					
vi.	Bird Guard(set of three)	Sets	90					
8	Protection of tower footing							
i)	Random rubble stone masonry including excavation (1:5 cement concrete)	Cu.m.	4200					
ii)	Stone bound in galvanising wire netting including excavation	Cu.m.	2350					
iii)	Back filling and levelling of volumes enclosed by revetment	Cu.m.	6300					
iv)	M15 Conc. Nominal Mix 1:2:4 for top seal cover	Cu.m.	340					
9	Installation of insulator strings complete with arcing horns & necessary hardware, installing of bundle conductor including fixing of conductor accessories, installing & stringing of one earthwire including fixing of one earthwire accessories (Twin bundle Conductor) .							
(i)	Normal Stretch (Double Ckt. Portion)	kms	59					

NEPAL ELECTRICITY AUTHORITY
PROJECT MANAGEMENT DIRECTORATE
Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

Schedule No. 4: Installation and other Services
(a): Installation and Construction Charges

Sl. No.	Item Description	Unit	Qty.	Installation Charges				
				Portion in Foreign Currency			Portion in Nepal Currency (in NRs)	
				Currency#	Unit Rate	Amount	Unit Rate in NRs	Amount NRs
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)x(6)	(8)	(9)=(4)x(8)
(ii)	Normal Stretch (Multi Ckt. Portion, two circuit with TWIN HTLS & two circuit with TWIN ACSR Bison conductor)	kms	8					
10	OPTIC FIBRE CABLING							
A.	OPGW cable & Accessories							
(a)	24 Fibre (DWSSM) OPGW fibre optic cable	km	70					
(b)	Installation Hardware set for above 24 Fibre OPGW Fibre Optic cabling including all cable fittings & accessories except joint box	Sets	70					
(c)	Joint box (24 Fibres)	No.	21					
B.	FODP							
(a)	FODP 48F : Indoor Type, rack mounted with FCPC coupling and pig tails	No.	4					
C.	Fibre Optic approach cable							
(a)	24 Fibre (DWSSM)	km	2					
(b)	Installation hardware set for above 24 Fibre, Fibre Optic Approach Cable	Sets	2					
11	A) Installation of following items for aviation requirements							
i)	Span markers	No.	20					
ii)	Obstruction lights (to be provided as per IS 5613)		0					
a)	1 Medium + 2low intensity	Sets	12					
b)	1 Medium + 4low intensity	Sets	8					
	B) Painting of towers	MT	480					
12	Pile Foundation:							
	No. of Pile Foundation	No.	1					
12.1	Boring, providing and installation of bored Cast-in-situ RCC vertical piles of specified diameter and of any length below the pile cap with M25 grade of cement concrete, excluding the cost of supply & placing the reinforcement steel but including the cost of boring with temporary Guide casing, bentonite solution and the length of pile to be embedded in the pile cap (length of pile for payment shall be measured from bottom of pile cap), all necessary labour, materials, plants, tools & tackles etc., complete, as necessary for proper execution of the job. (Boring in weathered rock, shale, fissured rock and soft rock excluded).							

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Schedule No. 4: Installation and other Services

(a): Installation and Construction Charges

Sl. No.	Item Description	Unit	Qty.	Installation Charges				
				Portion in Foreign Currency			Portion in Nepal Currency (in NRs)	
				Currency#	Unit Rate	Amount	Unit Rate in NRs	Amount NRs
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)x(6)	(8)	(9)=(4)x(8)
	a) 1200mm diameter R.C.C.vertical bored pile upto 30 m from bottom of pile cap.	Meter	500					
12.2	Extra over item 12.1 for boring including socketing, anchoring (if required) with required size,nos. & depth of Reinforcement in weathered rock, shale, fissured rock soft rock and hard rock upto a maximum depth of 5.0m.	Meter	32					
12.3	Excavation wherever required for pile cap /tie etc. (other than boring) for all depth and size, in all types of soils including disposal of excavated materials for all lifts and leads,decent etc.as directed by Engineer - In - charge,together with all labour,tools & tackles,sheeting, sheet piling,dewatering etc. complete as required for proper execution of the job.	Cu.m.	7					
12.4	Back filling with available excavated earth for all leads and lifts in sides of foundations and other under ground facilities in horizontal layers not exceeding 20 cm. in depth conso- lidating each deposited layer by ramming and watering etc.	Cu.m.	1					
12.5	Form work for placing plain or reinforced cement concrete of any type including blockout and section at any elevation including all labour, materials, equipments, waste for form, oring,shuttering,strutting,propping, scaffolding,tieng,nailing, caulking, dismantling & removal of forms etc. complete.	Sq.m.	165					
12.6	Supply and placing of steel reinforcement of specified grade for R.C.C. work in pile,pile cap, pedestal / chimney, tie beam (if required) including straightening, cutting, bending, binding etc. all complete	M.T.	38					

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Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

Schedule No. 4: Installation and other Services
(a): Installation and Construction Charges

Sl. No.	Item Description	Unit	Qty.	Installation Charges				
				Portion in Foreign Currency			Portion in Nepal Currency (in NRs)	
				Currency#	Unit Rate	Amount	Unit Rate in NRs	Amount NRs
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)x(6)	(8)	(9)=(4)x(8)
12.7	Providing and laying in position M25 Grade concrete of specified 28 days strength for pile caps, pedestal/chimney and tie beam(if required), excluding reinforcement steel and form work but including cement, all necessary tools and tackles,labour, materials, equipments for handling,transpor- tation, batching, mixing,placing, vibrating,dewatering etc. all complete (excluding cost of concrete in piles which is included in item no.12.1).	Cu.m.	145					
12.8	Providing and laying plain cement concrete 1:4:8 (1cement : 4 coarse sand: 8 graded stone aggregate 40mm nominal size) including cement, all necessary tools and tackles,labour, materials, equipments for handling,transportation,mixing,placing, vibrating,dewatering etc.all complete.	Cu.m.	7					
12.9	Conducting Standard Penetration Test (SPT) at various elevations in pile bore holes in all kind of soils including all labour, materials, tools and tackles, equipments etc. required labour, materials, tools and tackles, equipments etc. required for successful completion of the job.	Nos.	40					
12.10	Supply and Providing M.S. liner of 6mm. thick in piles upto 10m. Depth (maxm.) from bottom of pile cap, limited to the approved drawing, including supply, straightening, bending, welding,all supports, labours, tools and tackles, plants & equipments, with primer and paintinting etc. (complete) as required for successful completion of the job	MT	29					

NEPAL ELECTRICITY AUTHORITY
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Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

Schedule No. 4: Installation and other Services
(a): Installation and Construction Charges

Sl. No.	Item Description	Unit	Qty.	Installation Charges				
				Portion in Foreign Currency			Portion in Nepal Currency (in NRs)	
				Currency#	Unit Rate	Amount	Unit Rate in NRs	Amount NRs
(1)	(2)	(3)	(4)	(5)	(6)	(7)=(4)x(6)	(8)	(9)=(4)x(8)
12.11	Conducting integrity test on pile using electronic control unit, hand held hammer, accelerometer, computer with required software to assess as-installed pile characteristics including mobilisation of necessary manpower, equipments, materials etc. required for successful completion of the job	Nos.	16					
12	Installation of following softwares							
i)	PLS-CADD (multiuser license for 10 users- with individual keys)	Set	1					
ii)	PLS-TOWER (multiuser license for 10 users- with individual keys)	Set	1					
14	Cost for supervision works to be imparted by the principal Core Manufacturer during the installation of HTLS conductor at site							
i)	Engineer	Mdays	180					
ii)	Supervisor	Mdays	180					
	TOTAL INSTALATION SERVICES (Total of column 7 and 9 to be carried forward to Schedule No. 5: Grand Summary)							

Note : 1) Bidder is required to quote prices in this Schedule for all the individual items/sub-items.

2.) BOQ given above is indicative only based on the scope of work as given in Employer's Requirements. The quantities mentioned above may undergo change during detailed engineering to meet the functional requirement and scope of work defined in Employer's

* Specify currency in accordance with BDS ITB Clause 19.1, Part-I of the Bidding Documents.

⊕ Strike out if not applicable

Name of Bidder:

Signature of Bidder:

(Printed Name)

(Designation)

(Common Seal)

Date:

NEPAL ELECTRICITY AUTHORITY
PROJECT MANAGEMENT DIRECTORATE
Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

Schedule No. 4 : Installation and Other Services
(b): Training Charges for training to be imparted abroad

Sl. No.	Description	Item for which training is to be imparted.	Country where training is to be imparted	Nos. of Trainee	Training duration in days	Total Training Charges		
						Currency#	Rate per trainee per day	Total Training Charges
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)=4x5x7
	Training to Owners personnel on use & application of the softwares	i)EHV Transmission Line Design using PLS CADD :		8	14 days			
		ii)EHV Transmission Tower Design using PLS-Tower :		4	10 days			
	Total for Training Charges (Total of column 8 to be carried forward to Schedule No. 5: Grand Summary)							

Name of Bidder:

Signature of Bidder:

(Printed Name)

(Designation)

(Common Seal)

Date:

NEPAL ELECTRICITY AUTHORITY
PROJECT MANAGEMENT DIRECTORATE

Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

Schedule No. 4 : Installation and Other Services

(c): Training Charges for training to be imparted to Employer's Personnel by Bidder's Instructor in Nepal

Sl. No.	Description of the Test	Item for which training is to be imparted.	Training duration in days	Training Charges for Contractors Trainers		
				Currency	Rate per day	Total Training Charges
(1)	(2)	(3)	(4)	(5)	(6)	(7) = 4x 6
1	HTLS Conductor Installation, O&M for 20 Supervisors/Engineers	HTLS Conductor Installation Operation and Maintenance	21			
	Total for Training Charges (total of column 7 To be carried forward to Schedule 5: Grand Summary)					

Name of Bidder:

Date:

Signature of Bidder:

(Printed Name)

(Designation)

(Common Seal)

NEPAL ELECTRICITY AUTHORITY
PROJECT MANAGEMENT DIRECTORATE
Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

Schedule No. 4 : Installation and Other Services

(d): Type Test charges for Type Tests to be conducted abroad

Sl. No.	Description of Tests	Country of Testing	Unit	Qty.	Currency #	Unit Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(5) x (7)
1	Proto Type Testing of towers						
1.1	Tower Type DA with 9 m extension		No.	1			
1.2	Tower Type DB with 9 m extension		No.	1			
1.3	Tower Type DC with 9 m extension		No.	1			
1.4	Tower Type DD with 9 m extension		No.	1			
1.5	Tower Type DD special with 25 m extension		No.	1			
1.6	Tower Type MA with 9 m extension		No.	1			
1.7	Tower Type MD with 9 m extension		No.	1			
2 (i)	On complete HTLS Conductor						
a)	DC resistance test on stranded conductor		No.	1			
b)	UTS test on stranded conductor		No.	1			
c)	Radio interference voltage test (dry)		No.	1			
d)	Corona extinction voltage test (dry)		No.	1			
e)	Stress- Strain test on stranded conductor and core at room temperature		No.	1			
f)	Stress-strain test on stranded conductor and core at elevated temperature		No.	1			
g)	High temperature endurance & creep test on stranded conductor		No.	1			
h)	Sheaves Test		No.	1			
i)	Axial Impact Test		No.	1			
j)	Radial Crush Test		No.	1			
k)	Torsional Ductility Test		No.	1			
l)	Aeolian Vibration Test		No.	1			
m)	Temperature Cycle Test		No.	1			

NEPAL ELECTRICITY AUTHORITY
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Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

Schedule No. 4 : Installation and Other Services

(d): Type Test charges for Type Tests to be conducted abroad

Sl. No.	Description of Tests	Country of Testing	Unit	Qty.	Currency #	Unit Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(5) x (7)
2 (ii)	On HTLS Conductor Strand/core						
a)	Heat resistance test on Aluminium Alloy strands or core		No.	1			
b)	Bending test on aluminium clad core (if applicable)		No.	1			
c)	Compression test on aluminium clad core (if applicable)		No.	1			
d)	Coefficient of linear expansion on core wire		No.	1			
e)	Strand Brittle fracture test (for composite core only)		No.	1			
f)	Bending test on composite core		No.	1			
3	7/3.35 mm GS Earthwire						
3.1	UTS Test		No.	1			
3.2	D.C. Resistance Test		No.	1			
	TOTAL (Total of column 8 to be carried forward to Schedule No. 5: Grand Summary)						

Specify currency in accordance with BDS ITB Clause 19.1, Part-I of the Bidding Documents.

Name of Bidder:
Signature of Bidder:
(Printed Name)
(Designation)
(Common Seal)

Date:

NEPAL ELECTRICITY AUTHORITY
PROJECT MANAGEMENT DIRECTORATE
Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

Schedule No. 5: Grand Summary

Sl. No.	Description	Total Price Foreign ()	Total Price Local ()
1	TOTAL SCHEDULE NO. 1		
	Plant and Equipment including Mandatory Spares to be supplied from abroad.		
2	TOTAL SCHEDULE NO. 2		
	Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal		
3	TOTAL SCHEDULE NO. 3		
	Design Services		
4	TOTAL SCHEDULE NO. 4		
	(a) Installation and construction charges		
	(b) Training charges for training to be imparted abroad		
	(c) Training charges for training to be imparted in Nepal		
	(d) Type Tests charges for type Tests to be conducted abroad		
	GRAND TOTAL [1+2+3+4]		

Name of Bidder:

Date:

Signature of Bidder:

(Printed Name)

(Designation)

(Common Seal)



NEPAL ELECTRICITY AUTHORITY
PROJECT MANAGEMENT DIRECTORATE
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Schedule No. 6: Recommended Availability/Optional Spares parts and Recommended Test Equipment (in line with Technical Specifications)

Item No.	Name & Description of Parts	Name of Original Manufacturer	Part No.	Number of Units in each set	Total No. of Sets to be provided	Unit Price	Total Price	Remarks

Name of Bidder:

Date: _____

Signature of Bidder:

(Printed Name)

(Designation)

(Common Seal)

NEPAL ELECTRICITY AUTHORITY
PROJECT MANAGEMENT DIRECTORATE
Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

(Under schedule-4(a))

Annexure:- Guranteed Foundation Volume/ Rate

Currency:-

Sl. No.	Item Description	Volume / Weights					Unit Rate					Total Rate Quoted
		Excavation (cu.m)	Conc M10 (cu.m.)	Conc M15 (cu.m.)	Conc M20 (cu.m.)	Rein.Steel (MT)	Excavation (per cu.m)	Conc M10 (per cu.m.)	Conc M15 (per cu.m.)	Conc M20 (per cu.m.)	Rein.Steel (per MT)	
1.0	Suspension Tower DA											
a)	Foundation for Basic Body (including -4.5m, -3m, -1.5m, +/- 0m leg Extension)											
i)	Dry Foundation											
ii)	Wet Foundation											
iii)	Partially Submerged Foundation											
iv)	Fully Submerged Foundation											
v)	Wet Black Cotton Foundation											
vi)	Dry Fissured Rock											
vii)	Wet Fissured Rock											
viii)	Submerged Fissured Rock											
ix)	Hard Rock Foundation											
x)	Sandy Soil Foundation											
b)	Common Foundation for +1.5m, +3m, +4.5m +6m, +7.5m, +9m leg Extension											
i)	Dry Foundation											
ii)	Wet Foundation											
iii)	Partially Submerged Foundation											
iv)	Fully Submerged Foundation											
v)	Wet Black Cotton Foundation											
vi)	Dry Fissured Rock											
vii)	Wet Fissured Rock											
viii)	Submerged Fissured Rock											
ix)	Hard Rock Foundation											
x)	Sandy Soil Foundation											

NEPAL ELECTRICITY AUTHORITY
PROJECT MANAGEMENT DIRECTORATE
Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

(Under schedule-4(a))

Annexure:- Guranteed Foundation Volume/ Rate

Currency:-

Sl. No.	Item Description	Volume / Weights					Unit Rate					Total Rate Quoted
		Excavation (cu.m)	Conc M10 (cu.m.)	Conc M15 (cu.m.)	Conc M20 (cu.m.)	Rein.Steel (MT)	Excavation (per cu.m)	Conc M10 (per cu.m.)	Conc M15 (per cu.m.)	Conc M20 (per cu.m.)	Rein.Steel (per MT)	
c)	Common Foundation for +18m, +25m leg Extension											
i)	Dry Foundation											
ii)	Wet Foundation											
iii)	Partially Submerged Foundation											
iv)	Fully Submerged Foundation											
v)	Wet Black Cotton Foundation											
vi)	Dry Fissured Rock											
vii)	Wet Fissured Rock											
viii)	Submerged Fissured Rock											
ix)	Hard Rock Foundation											
x)	Sandy Soil Foundation											
2.0	Tension Tower DB											
a)	Foundation for Basic Body (including -4.5m, -3m, -1.5m, +/- 0m leg Extension)											
i)	Dry Foundation											
ii)	Wet Foundation											
iii)	Partially Submerged Foundation											
iv)	Fully Submerged Foundation											
v)	Wet Black Cotton Foundation											
vi)	Dry Fissured Rock											
vii)	Wet Fissured Rock											
viii)	Submerged Fissured Rock											
ix)	Hard Rock Foundation											
x)	Sandy Soil Foundation											

NEPAL ELECTRICITY AUTHORITY
PROJECT MANAGEMENT DIRECTORATE
Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

(Under schedule-4(a))

Annexure:- Guranteed Foundation Volume/ Rate

Currency:-

Sl. No.	Item Description	Volume / Weights					Unit Rate					Total Rate Quoted
		Excavation (cu.m)	Conc M10 (cu.m.)	Conc M15 (cu.m.)	Conc M20 (cu.m.)	Rein.Steel (MT)	Excavation (per cu.m)	Conc M10 (per cu.m.)	Conc M15 (per cu.m.)	Conc M20 (per cu.m.)	Rein.Steel (per MT)	
b)	Common Foundation for +1.5m, +3m, +4.5m +6m, +7.5m, +9m leg Extension											
i)	Dry Foundation											
ii)	Wet Foundation											
iii)	Partially Submerged Foundation											
iv)	Fully Submerged Foundation											
v)	Wet Black Cotton Foundation											
vi)	Dry Fissured Rock											
vii)	Wet Fissured Rock											
viii)	Submerged Fissured Rock											
ix)	Hard Rock Foundation											
x)	Sandy Soil Foundation											
3.0	Tension Tower DC											
a)	Foundation for Basic Body (including -4.5m, -3m, -1.5m, +/- 0m leg Extension)											
i)	Dry Foundation											
ii)	Wet Foundation											
iii)	Partially Submerged Foundation											
iv)	Fully Submerged Foundation											
v)	Wet Black Cotton Foundation											
vi)	Dry Fissured Rock											
vii)	Wet Fissured Rock											
viii)	Submerged Fissured Rock											
ix)	Hard Rock Foundation											
x)	Sandy Soil Foundation											

NEPAL ELECTRICITY AUTHORITY
PROJECT MANAGEMENT DIRECTORATE
Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

(Under schedule-4(a))

Annexure:- Guranteed Foundation Volume/ Rate

Currency:-

Sl. No.	Item Description	Volume / Weights					Unit Rate					Total Rate Quoted
		Excavation (cu.m)	Conc M10 (cu.m.)	Conc M15 (cu.m.)	Conc M20 (cu.m.)	Rein.Steel (MT)	Excavation (per cu.m)	Conc M10 (per cu.m.)	Conc M15 (per cu.m.)	Conc M20 (per cu.m.)	Rein.Steel (per MT)	
b)	Common Foundation for +1.5m, +3m, +4.5m +6m, +7.5m, +9m leg Extension											
i)	Dry Foundation											
ii)	Wet Foundation											
iii)	Partially Submerged Foundation											
iv)	Fully Submerged Foundation											
v)	Wet Black Cotton Foundation											
vi)	Dry Fissured Rock											
vii)	Wet Fissured Rock											
viii)	Submerged Fissured Rock											
ix)	Hard Rock Foundation											
x)	Sandy Soil Foundation											
4.0	Tension Tower DD											
a)	Foundation for Basic Body (including -4.5m, -3m, -1.5m, +/- 0m leg Extension)											
i)	Dry Foundation											
ii)	Wet Foundation											
iii)	Partially Submerged Foundation											
iv)	Fully Submerged Foundation											
v)	Wet Black Cotton Foundation											
vi)	Dry Fissured Rock											
vii)	Wet Fissured Rock											
viii)	Submerged Fissured Rock											
ix)	Hard Rock Foundation											
x)	Sandy Soil Foundation											

NEPAL ELECTRICITY AUTHORITY
PROJECT MANAGEMENT DIRECTORATE
Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

(Under schedule-4(a))

Annexure:- Guranteed Foundation Volume/ Rate

Currency:-

Sl. No.	Item Description	Volume / Weights					Unit Rate					Total Rate Quoted
		Excavation (cu.m)	Conc M10 (cu.m.)	Conc M15 (cu.m.)	Conc M20 (cu.m.)	Rein.Steel (MT)	Excavation (per cu.m)	Conc M10 (per cu.m.)	Conc M15 (per cu.m.)	Conc M20 (per cu.m.)	Rein.Steel (per MT)	
b)	Common Foundation for +1.5m, +3m, +4.5m +6m, +7.5m, +9m leg Extension											
i)	Dry Foundation											
ii)	Wet Foundation											
iii)	Partially Submerged Foundation											
iv)	Fully Submerged Foundation											
v)	Wet Black Cotton Foundation											
vi)	Dry Fissured Rock											
vii)	Wet Fissured Rock											
viii)	Submerged Fissured Rock											
ix)	Hard Rock Foundation											
x)	Sandy Soil Foundation											
c)	Common Foundation for +18m, +25m leg Extension											
i)	Dry Foundation											
ii)	Wet Foundation											
iii)	Partially Submerged Foundation											
iv)	Fully Submerged Foundation											
v)	Wet Black Cotton Foundation											
vi)	Dry Fissured Rock											
vii)	Wet Fissured Rock											
viii)	Submerged Fissured Rock											
ix)	Hard Rock Foundation											
x)	Sandy Soil Foundation											

NEPAL ELECTRICITY AUTHORITY
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Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

(Under schedule-4(a))

Annexure:- Guranteed Foundation Volume/ Rate

Currency:-

Sl. No.	Item Description	Volume / Weights					Unit Rate					Total Rate Quoted
		Excavation (cu.m)	Conc M10 (cu.m.)	Conc M15 (cu.m.)	Conc M20 (cu.m.)	Rein.Steel (MT)	Excavation (per cu.m)	Conc M10 (per cu.m.)	Conc M15 (per cu.m.)	Conc M20 (per cu.m.)	Rein.Steel (per MT)	
5.0	Tension Tower Special											
a)	Foundation for Basic Body (including -4.5m, -3m, -1.5m, +/- 0m leg Extension)											
i)	Dry Foundation											
ii)	Wet Foundation											
iii)	Partially Submerged Foundation											
iv)	Fully Submerged Foundation											
v)	Wet Black Cotton Foundation											
vi)	Dry Fissured Rock											
vii)	Wet Fissured Rock											
viii)	Submerged Fissured Rock											
ix)	Hard Rock Foundation											
x)	Sandy Soil Foundation											
b)	Common Foundation for +18m, +25m leg Extension											
i)	Dry Foundation											
ii)	Wet Foundation											
iii)	Partially Submerged Foundation											
iv)	Fully Submerged Foundation											
v)	Wet Black Cotton Foundation											
vi)	Dry Fissured Rock											
vii)	Wet Fissured Rock											
viii)	Submerged Fissured Rock											
ix)	Hard Rock Foundation											
x)	Sandy Soil Foundation											

NEPAL ELECTRICITY AUTHORITY
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Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

(Under schedule-4(a))

Annexure:- Guranteed Foundation Volume/ Rate

Currency:-

Sl. No.	Item Description	Volume / Weights					Unit Rate					Total Rate Quoted
		Excavation (cu.m)	Conc M10 (cu.m.)	Conc M15 (cu.m.)	Conc M20 (cu.m.)	Rein.Steel (MT)	Excavation (per cu.m)	Conc M10 (per cu.m.)	Conc M15 (per cu.m.)	Conc M20 (per cu.m.)	Rein.Steel (per MT)	
6.0	Suspension Tower MA											
a)	Foundation for Basic Body (including -4.5m, -3m, -1.5m, +/- 0m leg Extension)											
i)	Dry Foundation											
ii)	Wet Foundation											
iii)	Partially Submerged Foundation											
iv)	Fully Submerged Foundation											
v)	Wet Black Cotton Foundation											
vi)	Dry Fissured Rock											
vii)	Wet Fissured Rock											
viii)	Submerged Fissured Rock											
ix)	Hard Rock Foundation											
x)	Sandy Soil Foundation											
b)	Common Foundation for +1.5m, +3m, +4.5m +6m, +7.5m, +9m leg Extension											
i)	Dry Foundation											
ii)	Wet Foundation											
iii)	Partially Submerged Foundation											
iv)	Fully Submerged Foundation											
v)	Wet Black Cotton Foundation											
vi)	Dry Fissured Rock											
vii)	Wet Fissured Rock											
viii)	Submerged Fissured Rock											
ix)	Hard Rock Foundation											
x)	Sandy Soil Foundation											

NEPAL ELECTRICITY AUTHORITY
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Marsyangdi Corridor 220 kV Transmission Line Project, Udipur-Markichowk-Bharatpur Section

(Under schedule-4(a))

Annexure:- Guranteed Foundation Volume/ Rate

Currency:-

Sl. No.	Item Description	Volume / Weights					Unit Rate					Total Rate Quoted
		Excavation (cu.m)	Conc M10 (cu.m.)	Conc M15 (cu.m.)	Conc M20 (cu.m.)	Rein.Steel (MT)	Excavation (per cu.m)	Conc M10 (per cu.m.)	Conc M15 (per cu.m.)	Conc M20 (per cu.m.)	Rein.Steel (per MT)	
7.0	Tension Tower MD											
a)	Foundation for Basic Body (including -4.5m, -3m, -1.5m, +/- 0m leg Extension)											
i)	Dry Foundation											
ii)	Wet Foundation											
iii)	Partially Submerged Foundation											
iv)	Fully Submerged Foundation											
v)	Wet Black Cotton Foundation											
vi)	Dry Fissured Rock											
vii)	Wet Fissured Rock											
viii)	Submerged Fissured Rock											
ix)	Hard Rock Foundation											
x)	Sandy Soil Foundation											
b)	Common Foundation for +1.5m, +3m, +4.5m +6m, +7.5m, +9m leg Extension											
i)	Dry Foundation											
ii)	Wet Foundation											
iii)	Partially Submerged Foundation											
iv)	Fully Submerged Foundation											
v)	Wet Black Cotton Foundation											
vi)	Dry Fissured Rock											
vii)	Wet Fissured Rock											
viii)	Submerged Fissured Rock											
ix)	Hard Rock Foundation											
x)	Sandy Soil Foundation											

Name of Bidder:

Date: _____

Signature of Bidder:

(Printed Name)

(Designation)

(Common Seal)