Design, Supply, Installation, Testing & Commissioning of 230 kV and 132 kV Transmission Lines for Southern Area of Chattogram Division & Bangabandhu Hi-Tech City at Kaliakoir on Turnkey Basis (Contract No. PGCB/AIIB/000308-BGD/TL/Package-2)

A. Anwara-Cox's Bazar (North) 230 kV double circuit transmission line (Initially charged at 132 kV): 109 km with 0.49 km river crossing portion (using twin ACSR mallard Conductor)

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1A Plant and Mandatory Spare Parts Supplied from Abroad								
1.Supply of 230 kV and 400kV double circuit towers, complete with all stubs, nuts, bolts, locking nuts, washers, phase conductors and earthwire, swivels/shackles, step bolts, tower notice and identification plates, ACDs, protective coating, earthing, etc.								
1.1	**Tower type "4D1-Q"**							
1.1.1	Tower type 4D1-Q+30 m		each	3				
1.1.2	Tower type 4D1-Q+40 m		each	3				
1.2	**Tower type 2DL**							
1.2.1	Tower type 2DL Standard		each	10				
1.2.2	Tower type 2DL+1.5 m		each	10				
1.2.3	Tower type 2DL+3 m		each	18				
1.2.4	Tower type 2DL+4.5 m		each	28				
1.2.5	Tower type 2DL+6 m		each	33				
1.2.6	Tower type 2DL+9 m		each	43				
1.2.7	Tower type 2DL+12 m		each	36				
1.3	**Tower type "2D1"**							
1.3.1	Tower type 2D1 Standard		each	2				
1.3.2	Tower type 2D1 +1.5 m		each	2				
1.3.3	Tower type 2D1 +3 m		each	2				
1.3.4	Tower type 2D1 +4.5 m		each	2				
1.3.5	Tower type 2D1 +6 m		each	2				
1.3.6	Tower type 2D1 +9 m		each	3				
1.3.7	Tower type 2D1 +12 m		each	4				
1.3.8	Tower type 2D1 +15 m		each	4				
1.3.9	Tower type 2D1 +18 m		each	3				
1.3.10	Tower type 2D1 +21 m		each	2				
1.3.11	Tower type 2D1 +25 m		each	2				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1A Plant and Mandatory Spare Parts Supplied from Abroad								
1.4	**Tower type "2D25"**							
1.4.1	Tower type 2D25 Standard		each	5				
1.4.2	Tower type 2D25 +1.5 m		each	2				
1.4.3	Tower type 2D25+3 m		each	4				
1.4.4	Tower type 2D25 +4.5 m		each	2				
1.4.5	Tower type 2D25 +6 m		each	5				
1.4.6	Tower type 2D25 +9 m		each	11				
1.4.7	Tower type 2D25 +12 m		each	5				
1.4.8	Tower type 2D25 +15 m		each	4				
1.5	**Tower type "2DT6"**							
1.5.1	Tower type 2DT6 Standard		each	6				
1.5.2	Tower type 2DT6+1.5 m		each	3				
1.5.3	Tower type 2DT6+3 m		each	8				
1.5.4	Tower type 2DT6+4.5 m		each	3				
1.5.5	Tower type 2DT6+6 m		each	12				
1.5.6	Tower type 2DT6+9 m		each	14				
1.5.7	Tower type 2DT6+12 m		each	8				
1.5.8	Tower type 2DT6+15 m		each	8				
1.6	**Tower type "2D9"**							
1.6.1	Tower type 2D9 Standard		each	1				
1.6.2	Tower type 2D9+1.5 m		each	NIL				
1.6.3	Tower type 2D9+3 m		each	NIL				
1.6.4	Tower type 2D9+4.5 m		each	1				
1.6.5	Tower type 2D9+6 m		each	NIL				
1.6.6	Tower type 2D9+9 m		each	1				
1.6.7	Tower type 2D9+12 m		each	1				
1.6.8	Tower type 2D9+15 m		each	1				
1.7	**Tower type "2QL"**							
1.7.1	Tower type 2QL Standard		each	1				
1.7.2	Tower type 2QL+1.5 m		each	NIL				
1.7.3	Tower type 2QL+3 m		each	NIL				
1.7.4	Tower type 2QL+4.5 m		each	NIL				
1.7.5	Tower type 2QL+6 m		each	1				
1.7.6	Tower type 2QL+9 m		each	1				
1.8	**Tower type "2Q1"**							
1.8.1	Tower type 2Q1 Standard		each	1				
1.8.2	Tower type 2Q1 +1.5 m		each	NIL				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1A Plant and Mandatory Spare Parts Supplied from Abroad								
1.8.3	Tower type 2Q1 +3 m		each	NIL				
1.8.4	Tower type 2Q1 +6 m		each	1				
1.8.5	Tower type 2Q1 +9 m		each	1				
1.8.6	Tower type 2Q1 +12 m		each	NIL				
1.8.7	Tower type 2Q1 +15 m		each	NIL				
1.8.8	Tower type 2Q1 +18 m		each	NIL				
1.8.9	Tower type 2Q1 +21 m		each	NIL				
1.8.10	Tower type 2Q1 +25 m		each	NIL				
1.9	**Tower type "2Q15"**							
1.9.1	Tower type 2Q15 Standard		each	1				
1.9.2	Tower type 2Q15 +1.5 m		each	NIL				
1.9.3	Tower type 2Q15 +3 m		each	NIL				
1.9.4	Tower type 2Q15 +6 m		each	1				
1.9.5	Tower type 2Q15 +9 m		each	1				
1.10	**Tower type "2Q30"**							
1.10.1	Tower type 2Q30 Standard		each	1				
1.10.2	Tower type 2Q30+1.5 m		each	NIL				
1.10.3	Tower type 2Q30+3 m		each	NIL				
1.10.4	Tower type 2Q30+4.5 m		each	NIL				
1.10.5	Tower type 2Q30+6 m		each	1				
1.10.6	Tower type 2Q30+9 m		each	1				
1.11	**Tower type "2QT6"**							
1.11.1	Tower type 2QT6 Standard		each	1				
1.11.2	Tower type 2QT6+1.5 m		each	NIL				
1.11.3	Tower type 2QT6+3 m		each	NIL				
1.11.4	Tower type 2QT6+4.5 m		each	NIL				
1.11.5	Tower type 2QT6+ 6 m		each	1				
1.11.6	Tower type 2QT6+ 9 m		each	1				
1.12	**Tower type "2T"**							
1.12.1	Tower type 2T Standard		each	1				
1.12.2	Tower type 2T+3 m		each	1				
	River Crossing Portion							
1.13	**Tower type 2DR**							
1.13.1	Tower type 2DR Standard		each	2				
1.13.2	Tower type 2DR M20		each	1				
1.14	**Tower type 2DAX**							
1.14.1	Tower type 2DAX Standard		each	3				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1A Plant and Mandatory Spare Parts Supplied from Abroad								
1.15	Auxiliary crossarm for tower type 2DT6		per set of three	3				
1.16	Auxiliary crossarm for tower type 2QT6		per set of three	4				
1.17	Galvanized Tower Steel							
(a)	Fabricated		ton	30				
(b)	Non-fabricated		ton	30				
2	**Phase conductor, earthwire and OPGW cable, complete with repair sleeves and joints**							
2.1	**Overland Portion**							
2.1.1	"ACSR Mallard" Phase Conductor (3 Phase, Double Circuit, Twin Conductor per phase on the line)		Route km[3]	109				
2.1.2	7x4.00mm equivalent OPGW inclusive of joint boxes, fixing clamps, fusion splices and connections to the joint boxes. Two OPGW earthwire on the line.		Route km[3]	109				
2.2	**River Crossing Portion**							
2.2.1	"ACSR Mallard" Phase Conductor (3 Phase, double circuit line, both circuits erected, one conductors per phase)		Route km[3]	0.49				
2.2.2	19x3.67 20SA earthwire equivalent OPGW inclusive of joint boxes, fixing clamps, fusion splices and connections to the joint boxes. Two OPGW earthwire on the line.		Route km[3]	0.49				
3	**Insulator strings, with associated suspension and tension clamps for twin ACSR Mallard Conductor**							
3.1	**Over Land Portion**							
3.1.1	a) Single suspension string, 120 kN -disc only (Fog type shed)		Set	1,086				
	b) Single suspension string, 120 kN -fittings only		Set	1,086				
3.1.2	a) Single suspension string (Heavy Suspension), 210 kN -disc only (Fog type shed)		Set	222				
	a) Single suspension string (Heavy Suspension), 210 kN -fittings only		Set	222				
3.1.3	a) Double tension string,2x210kN -disc only (Fog type shed)		Set	1332				
	b) Double tension string,2x210kN -fittings only		Set	1332				
3.1.4	a) Single jumper suspension I-string, having each string 1x120 kN-disc only (Fog type shed)		Set	339				
	b) Single jumper suspension I-string, having each string 1x120 kN-fittings only		Set	339				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1A Plant and Mandatory Spare Parts Supplied from Abroad								
3.1.5	a) Single tension string, upright low duty 120kN- disc only (Fog type shed)		Set	12				
	b) Single tension string, upright low duty 120kN- fittings only		Set	12				
3.1.6	a) Single tension string, inverted low duty 120kN -discs only (Fog type shed)		Set	12				
	b) Single tension string, inverted low duty 120kN -fittings only		Set	12				
3.1.7	Counterweights for 210kN suspension insulator sets complete with yoke plate attachment bolts to be used for 2D1 towers:							
(a)	- 40kg set		each	3				
(b)	- 80kg set		each	3				
(c)	- 120kg set		each	5				
3.2	**River Crossing Portion**							
3.2.1	a) 210kN twin suspension Insulators Set (2x210kN) for River Crossing Portion of Twin ACSR Mallard Conductor - disc only (Fog type shed)		Set	18				
	b) 210kN twin suspension Insulators Fittings Set (2x210kN) for River Crossing Portion of Twin ACSR Mallard Conductor - hardware fittings only		Set	18				
3.2.2	a) 300kN twin tension Insulators Set (2x300kN) for River Cossing Portion of Twin ACSR Mallard Conductor - disc only (Fog type shed)		Set	36				
	b) 300kN twin tension Insulators Fittings Set for (2x300kN) River Crossing Portion of Twin ACSR Mallard Conductor - hardware fittings only		Set	36				
4	**OPGW sets, complete with all accessories, incl. armour rods and earth bounds**							
4.1	**Over Land Portion**							
4.1.1	Suspension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)		set	218				
4.1.2	Tension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)		set	218				
4.2	**River Crossing Portion**							
4.2.1	Suspension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)		set	6				
4.2.2	Tension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)		set	12				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1A Plant and Mandatory Spare Parts Supplied from Abroad								
5	**Dampers**							
5.1	**Over Land Portion**							
5.1.1	Vibration damper for phase conductor		per span	339				
5.1.2	Spacer damper for phase conductor		per span	339				
5.1.3	Vibration damper for OPGW		per span	339				
5.1.4	Spacer for jumper		nos.	300				
5.2	**River Crossing Portion**							
5.2.1	Vibration damper for phase conductor		per span	5				
5.2.2	Spacer damper for phase conductor		per span	5				
5.2.3	Vibration damper for OPGW		per span	5				
5.2.4	Spacer for jumper		nos.	18				
6	**Aerial Markers**							
6.1	Painting of tower having height more than 60 meter in accordance with the requirements of the Technical Specification		per tower	17				
6.2	Painting of tower (Reflecting Paint) upto 3 meter in submerge area in accordance with the requirements of the Technical Specification		per tower	5				
6.3	Air craft obstruction lights solar powered complete with lamps, solar, panels, batteries, control equipment cables, support framework, tower work platform etc.		each	30				
6.4	Aircraft warning spheres		each	17				
6.5	Bird diverters		each	15				
6.6	Bird guards, one bird guard per each crossarm applied on intermediate towers		each	1272				
7	**Mandatory Spare Parts and Tools**							
7.1	**Insulator and Fittings**							
	Insulator sets complete with insulators and all hardware fittings including suspension clamps, tension dead ends,armour rods, arcing horn. Arcing ring etc							
7.1.1	120kN single suspension Insulators set for "ACSR Mallard" - Complete Assembly (Fog type shed)		set	5				
7.1.2	120kN jumper suspension set for "ACSR Mallard" - Complete Assembly (Fog type shed)		set	10				
7.1.3	210kN Single tension set for "ACSR Mallard" - Complete Assembly (Fog type shed)		set	20				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1A Plant and Mandatory Spare Parts Supplied from Abroad								
7.2	**Phase conductor, earthwire, OPGW & Fittings**							
7.2.1	Phase conductor "ACSR Mallard" conductor		km	7				
7.2.2	Midspan Joint for "ACSR Mallard " conductor		each	5				
7.2.3	Repair sleeve for "ACSR Mallard" conductor		each	5				
7.2.4	Spacer Damper for "ACSR Mallard"		each	7				
7.2.5	Jumper Spacer for "ACSR Mallard"		each	7				
7.2.6	7x4.00mm Equivalent OPGW		km	10				
7.2.7	Suspension set for 7x4.00mm Equivalent OPGW		each	12				
7.2.8	Tension set for 7x4.00mm Equivalent OPGW		each	12				
7.2.9	Vibration damper for 7x4.00mm Equivalent OPGW		each	15				
7.3	**Temporary earthing equipment**		each	1				
7.4	**Motorised jointing compressor for conductor complete with dies suitable for conductors & earthwires to be used for this Contract**		each	2				
Total Columns 8 to be carried forward to Schedule No. 5 - Grand Summary								

Name of Bidder _____

Signature of Bidder _____

1 Specify currencies in accordance with ITB 19.1 of the BDS. Create additional columns for up to a maximum of three foreign currencies, if so required.

2 Bidders shall enter a code representing the country of origin of all imported plant and equipment.

3 Definition of route km: Route km is the transmission line distance between two terminal points in plan view. Route km is exclusive sag and other electrical clearances, elevation differences etc. The Contractor shall incorporate all such extra costs in his unit rate.

Country of Origin Declaration Form

Item	Description	Code	Country

Design, Supply, Installation, Testing & Commissioning of 230 kV and 132 kV Transmission Lines for Southern Area of Chattogram Division & Bangabandhu Hi-Tech City at Kaliakoir on Turnkey Basis (Contract No.PGCB/AIIB/000308-BGD/TL/Package-2)

B. Bangabandhu Hi-Tech City-Kaliakoir 230 kV double circuit transmission line: 4.88 km (using Twin ACSR Mallard conductor)

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1B Plant and Mandatory Spare Parts Supplied from Abroad								
1.Supply of 230 kV double circuit towers, complete with all stubs, nuts, bolts, locking nuts, washers, phase conductors and earthwire, swivels/shackles, step bolts, tower notice and identification plates, ACDs, protective coating, earthing, etc.								
1.1	**Tower type "2DL"**							
1.1.1	Tower type 2DL Standard		each	1				
1.1.2	Tower type 2DL+1.5 m		each	NIL				
1.1.3	Tower type 2DL+3 m		each	NIL				
1.1.4	Tower type 2DL+4.5 m		each	NIL				
1.1.5	Tower type 2DL+6 m		each	1				
1.1.6	Tower type 2DL+9 m		each	1				
1.1.7	Tower type 2DL+12 m		each	1				
1.2	**Tower type "2D1"**							
1.2.1	Tower type 2D1 Standard		each	1				
1.2.2	Tower type 2D1 +1.5 m		each	NIL				
1.2.3	Tower type 2D1 +3 m		each	NIL				
1.2.4	Tower type 2D1 +4.5 m		each	NIL				
1.2.5	Tower type 2D1 +6 m		each	NIL				
1.2.6	Tower type 2D1 +9 m		each	1				
1.2.7	Tower type 2D1 +12 m		each	NIL				
1.2.8	Tower type 2D1 +15 m		each	NIL				
1.2.9	Tower type 2D1 +18 m		each	NIL				
1.2.10	Tower type 2D1 +21 m		each	1				
1.3	**Tower type "2D25"**							
1.3.1	Tower type 2D25 Standard		each	1				
1.3.2	Tower type 2D25 +1.5 m		each	NIL				
1.3.3	Tower type 2D25+3 m		each	1				
1.3.4	Tower type 2D25 +4.5 m		each	NIL				
1.3.5	Tower type 2D25 +6 m		each	NIL				
1.3.6	Tower type 2D25 +9 m		each	1				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1B Plant and Mandatory Spare Parts Supplied from Abroad								
1.3.7	Tower type 2D25 +12 m		each	NIL				
1.3.8	Tower type 2D25 +15 m		each	1				
1.4	**Tower type "2DT6"**							
1.4.1	Tower type 2DT6 Standard		each	1				
1.4.2	Tower type 2DT6+1.5 m		each	NIL				
1.4.3	Tower type 2DT6+3 m		each	NIL				
1.4.4	Tower type 2DT6+4.5 m		each	NIL				
1.4.5	Tower type 2DT6+6 m		each	1				
1.4.6	Tower type 2DT6+9 m		each	1				
1.4.7	Tower type 2DT6+12 m		each	NIL				
1.4.8	Tower type 2DT6+15 m		each	NIL				
1.5	**Tower type "2QL"**							
1.5.1	Tower type 2QL Standard		each	NIL				
1.5.2	Tower type 2QL+1.5 m		each	NIL				
1.5.3	Tower type 2QL+3 m		each	NIL				
1.5.4	Tower type 2QL+4.5 m		each	NIL				
1.5.5	Tower type 2QL+6 m		each	1				
1.5.6	Tower type 2QL+9 m		each	1				
1.6	**Tower type "2Q1"**							
1.6.1	Tower type 2Q1 Standard		each	NIL				
1.6.2	Tower type 2Q1 +1.5 m		each	NIL				
1.6.3	Tower type 2Q1 +3 m		each	NIL				
1.6.4	Tower type 2Q1 +6 m		each	1				
1.6.5	Tower type 2Q1 +9 m		each	1				
1.6.6	Tower type 2Q1 +12 m		each	NIL				
1.6.7	Tower type 2Q1 +15 m		each	NIL				
1.6.8	Tower type 2Q1 +18 m		each	NIL				
1.6.9	Tower type 2Q1 +21 m		each	NIL				
1.6.10	Tower type 2Q1 +25 m		each	NIL				
1.7	**Tower type "2Q15"**							
1.7.1	Tower type 2Q15 Standard		each	NIL				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1B Plant and Mandatory Spare Parts Supplied from Abroad								
1.7.2	Tower type 2Q15 +1.5 m		each	NIL				
1.7.3	Tower type 2Q15 +3 m		each	NIL				
1.7.4	Tower type 2Q15 +6 m		each	1				
1.7.5	Tower type 2Q15 +9 m		each	1				
1.8	**Tower type "2Q30"**							
1.8.1	Tower type 2Q30 Standard		each	NIL				
1.8.2	Tower type 2Q30+1.5 m		each	NIL				
1.8.3	Tower type 2Q30+3 m		each	NIL				
1.8.4	Tower type 2Q30+4.5 m		each	NIL				
1.8.5	Tower type 2Q30+6 m		each	1				
1.8.6	Tower type 2Q30+9 m		each	1				
1.9	**Tower type "2QT6"**							
1.9.1	Tower type 2QT6 Standard		each	NIL				
1.9.2	Tower type 2QT6+1.5 m		each	NIL				
1.9.3	Tower type 2QT6+3 m		each	NIL				
1.9.4	Tower type 2QT6+4.5 m		each	NIL				
1.9.5	Tower type 2QT6+ 6 m		each	1				
1.9.6	Tower type 2QT6+ 9 m		each	1				
1.10	Auxiliary crossarm for tower type 2DT6		per set of three	3				
1.11	Auxiliary crossarm for tower type 2QT6		per set of three	4				
1.12	Galvanized Tower Steel							
(a)	Fabricated		ton	10				
(b)	Non-fabricated		ton	5				
2	**Phase conductor, earthwire and OPGW cable, complete with repair sleeves and joints**							
2.1	**Overland Portion**							
2.1.1	"ACSR Mallard" Phase Conductor (3 Phase, Double Circuit, Twin Conductor per phase on the line)		Route km[3]	4.88				
2.1.2	7x4.00mm equivalent OPGW inclusive of joint boxes, fixing clamps, fusion splices and connections to the joint boxes. One OPGW earthwire on the line.		Route km[3]	4.88				
2.1.3	7x4.00mm earthwire. One earthwire on the line.		Route km[3]	4.88				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1B Plant and Mandatory Spare Parts Supplied from Abroad								
3	**Insulator strings, with associated suspension and tension clamps for twin ACSR Mallard Conductor**							
3.1	**Over Land Portion**							
3.1.1	a) Single suspension string, 120 kN -disc only		Set	36				
	b) Single suspension string, 120 kN -fittings only		Set	36				
3.1.2	a) Single suspension string (Heavy Suspension), 210 kN -disc only		Set	30				
	a) Single suspension string (Heavy Suspension), 210 kN -fittings only		Set	30				
3.1.3	a) Double tension string,2x210kN -disc only		Set	156				
	b) Double tension string,2x210kN -fittings only		Set	156				
3.1.4	a) Single jumper suspension I-string, having each string 1x120 kN-disc only		Set	39				
	b) Single jumper suspension I-string, having each string 1x120 kN-fittings only		Set	39				
3.1.5	a) Single tension string, upright low duty 120kN- disc only		Set	12				
	b) Single tension string, upright low duty 120kN- fittings only		Set	12				
3.1.6	a) Single tension string, inverted low duty 120kN -discs only		Set	12				
	b) Single tension string, inverted low duty 120kN -fittings only		Set	12				
3.1.7	Counterweights for 210kN suspension insulator sets complete with yoke plate attachment bolts to be used for 2D1 towers:							
(a)	- 40kg set		each	3				
(b)	- 80kg set		each	3				
(c)	- 120kg set		each	5				
4	**Earthwire sets, complete with all accessories**							
4.1	**Over Land Portion**							
4.1.1	Suspension set		set	7				
4.1.2	Tension set		set	14				
5	**OPGW sets, complete with all accessories, incl. armour rods and earth bounds**							
5.1	**Over Land Portion**							
5.1.1	Suspension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)		set	7				
5.1.2	Tension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)		set	14				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1B Plant and Mandatory Spare Parts Supplied from Abroad								
6	**Dampers**							
6.1	**Over Land Portion**							
6.1.1	Vibration damper for phase conductor		per span	23				
6.1.2	Spacer damper for phase conductor		per span	23				
6.1.3	Vibration damper for earthwire		per span	23				
6.1.4	Vibration damper for OPGW		per span	23				
6.1.5	Spacer for jumper		nos.	21				
7	**Aerial Markers**							
7.1	Painting of tower having height more than 60 meter in accordance with the requirements of the Technical Specification		per tower	5				
7.2	Painting of tower (Reflecting Paint) upto 3 meter in submerge area in accordance with the requirements of the Technical Specification		per tower	5				
7.3	Air craft obstruction lights solar powered complete with lamps, solar, panels, batteries, control equipment cables, support framework, tower work platform etc.		each	12				
7.4	Aircraft warning spheres		each	12				
7.5	Bird diverters		each	15				
7.6	Bird guards, one bird guard per each crossarm applied on intermediate towers		each	42				
8	**Mandatory Spare Parts and Tools**							
8.1	**Insulator and Fittings**							
	Insulator sets complete with insulators and all hardware fittings including suspension clamps, tension dead ends,armour rods, arcing horn. Arcing ring etc							
8.1.1	120kN single suspension Insulators set for "ACSR Mallard" - Complete Assembly		set	5				
8.1.2	120kN jumper suspension set for "ACSR Mallard" - Complete Assembly		set	10				
8.1.3	210kN Single tension set for "ACSR Mallard" - Complete Assembly		set	20				
8.2	**Phase conductor, earthwire, OPGW & Fittings**							
8.2.1	Phase conductor "ACSR Mallard" conductor		km	7				
8.2.2	Midspan Joint for "ACSR Mallard " conductor		each	5				
8.2.3	Repair sleeve for "ACSR Mallard" conductor		each	5				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1B Plant and Mandatory Spare Parts Supplied from Abroad								
8.2.4	Spacer Damper for "ACSR Mallard"		each	7				
8.2.5	Jumper Spacer for "ACSR Mallard"		each	7				
8.2.6	Earthwire 7x4.00mm		km	7				
8.2.7	Midspan Joint for 7x4.00mm earthwire		each	3				
8.2.8	Suspension set for 7x4.00mm earthwire		each	10				
8.2.9	Tension set for 7x4.00mm earthwire		each	10				
8.2.10	Vibration damper for 7x4.00mm earthwire		each	15				
8.2.11	7x4.00mm Equivalent OPGW		km	10				
8.2.12	Suspension set for 7x4.00mm Equivalent OPGW		each	12				
8.2.13	Tension set for 7x4.00mm Equivalent OPGW		each	12				
8.2.14	Vibration damper for 7x4.00mm Equivalent OPGW		each	15				
8.3	**Temporary earthing equipment**		each	1				
8.4	**Motorised jointing compressor for conductor complete with dies suitable for conductors & earthwires to be used for this Contract**		each	2				
Total Columns 8 to be carried forward to Schedule No. 5 - Grand Summary								

Name of Bidder _____

Signature of Bidder _____

1 Specify currencies in accordance with ITB 19.1 of the BDS. Create additional columns for up to a maximum of three foreign currencies, if so required.

2 Bidders shall enter a code representing the country of origin of all imported plant and equipment.

3 Definition of route km: Route km is the transmission line distance between two terminal points in plan view. Route km is exclusive sag and other electrical clearances, elevation differences etc. The Contractor shall incorporate all such extra costs in his unit rate.

Country of Origin Declaration Form

Item	Description	Code	Country

Design, Supply, Installation, Testing & Commissioning of 230 kV and 132 kV Transmission Lines for Southern Area of Chattogram Division & Bangabandhu Hi-Tech City at Kaliakoir on Turnkey Basis (Contract No. PGCB/AIIB/000308-BGD/TL/Package-2)								
C. Cox's Bazar (North)-Teknaf 132 kV double circuit transmission line: 65 km (using Single ACSR Grosbeak Conductor)								
Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1C Plant and Mandatory Spare Parts Supplied from Abroad								
1.Supply of 132 kV double circuit towers, complete with all stubs, nuts, bolts, locking nuts, washers, phase conductors and earthwire, swivels/shackles, step bolts, tower notice and identification plates, ACDs, protective coating, earthing, etc.								
1.1	**Tower type "1DL"**							
1.1.1	Tower type 1DL Standard		each	20				
1.1.2	Tower type 1DL+1.5 m		each	25				
1.1.3	Tower type 1DL+3 m		each	25				
1.1.4	Tower type 1DL+4.5 m		each	40				
1.1.5	Tower type 1DL+6 m		each	52				
1.1.6	Tower type 1DL+9 m		each	52				
1.2	**Tower type "1D1"**							
1.2.1	Tower type 1D1 Standard		each	NIL				
1.2.2	Tower type 1D1 +1.5 m		each	NIL				
1.2.3	Tower type 1D1 +3 m		each	NIL				
1.2.4	Tower type 1D1 +4.5 m		each	NIL				
1.2.5	Tower type 1D1 +6 m		each	5				
1.2.6	Tower type 1D1 +9 m		each	5				
1.2.7	Tower type 1D1 +12 m		each	10				
1.3	**Tower type "1D25"**							
1.3.1	Tower type 1D25 Standard		each	5				
1.3.2	Tower type 1D25 +1.5 m		each	7				
1.3.3	Tower type 1D25+3 m		each	10				
1.3.4	Tower type 1D25 +9 m		each	18				
1.4	**Tower type "1DT6"**							
1.4.1	Tower type 1DT6 Standard		each	5				
1.4.2	Tower type 1DT6+1.5 m		each	5				
1.4.3	Tower type 1DT6+3 m		each	5				
1.4.4	Tower type 1DT6+4.5 m		each	9				
1.4.5	Tower type 1DT6+6 m		each	12				
1.4.6	Tower type 1DT6+9 m		each	12				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1C Plant and Mandatory Spare Parts Supplied from Abroad								
1.5	**Tower Type 1QL**							
1.5.1	Tower Type 1QL Standard		each	NIL				
1.5.2	Tower Type 1QL+1.5 m		each	NIL				
1.5.3	Tower Type 1QL+3.0 m		each	3				
1.5.4	Tower Type 1QL+4.5 m		each	NIL				
1.5.5	Tower Type 1QL+6.0 m		each	3				
1.5.6	Tower Type 1QL+9.0 m		each	6				
1.6	**Tower Type 1Q15**							
1.6.1	Tower type 1Q15 Standard		each	NIL				
1.6.2	Tower type 1Q15 +1.5 m		each	NIL				
1.6.3	Tower type 1Q15 +3.0 m		each	NIL				
1.6.4	Tower type 1Q15 +4.5 m		each	NIL				
1.6.5	Tower type 1Q15 +6.0 m		each	1				
1.6.6	Tower type 1Q15+9.0 m		each	1				
1.6.7	Tower type 1Q15 +12.0 m		each	1				
1.6.8	Tower type 1Q15 +15.0 m		each	NIL				
1.7	**Tower Type 1Q30**							
1.7.1	Tower type 1Q30 Standard		each	NIL				
1.7.2	Tower type 1Q30 +3.0 m		each	1				
1.7.3	Tower type 1Q30 +4.5 m		each	NIL				
1.7.4	Tower type 1Q30 +6.0 m		each	1				
1.7.5	Tower type 1Q30 +9.0 m		each	1				
1.8	**Tower Type 1QT6**							
1.8.1	Tower type 1QT6 Standard		each	NIL				
1.8.2	Tower type 1QT6+1.5 m		each	NIL				
1.8.3	Tower type1QT6+3.0 m		each	1				
1.8.4	Tower type 1QT6+4.5 m		each	NIL				
1.8.5	Tower Type 1QT6+6.0 m		each	1				
1.8.6	Tower Type 1QT6+9.0 m		each	3				
1.9	**Pole**							
1.9.1	Pole type 1DLP		each	1				
1.9.2	Pole type 1D1P		each	1				
1.9.3	Pole type 1D25P		each	1				
1.9.4	Pole type 1DT6P		each	1				
1.9.5	Pole type 1D9P		each	1				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1C Plant and Mandatory Spare Parts Supplied from Abroad								
1.10	Auxiliary Crossarm for pole type 1DT6P		per set of three	1				
1.11	Auxiliary crossarm for tower type 1DT6		per set of three	3				
1.12	Auxiliary crossarm for tower type 1QT6		per set of three	4				
1.13	Galvanized Tower Steel							
(a)	Fabricated		ton	20				
(b)	Non-fabricated		ton	10				
2	**Phase conductor, earthwire and OPGW cable, complete with repair sleeves and joints**							
2.1	**Overland Portion**							
2.1.1	"ACSR Grosbeak" Phase Conductor (3 Phase, Double Circuit, Single Conductor per phase on the line)		Route km[3]	65				
2.1.2	7x3.25mm equivalent OPGW inclusive of joint boxes, fixing clamps, fusion splices and connections to the joint boxes. One OPGW earthwire on the line.		Route km[3]	65				
2.1.3	7x3.25mm earthwire. One earthwire on the line.		Route km[3]	65				
3	**Insulator strings, with associated suspension and tension clamps for twin ACSR Mallard Conductor**							
3.1	**Over Land Portion**							
3.1.1	a) Single suspension string, 70 kN -disc only		Set	1,362				
	b) Single suspension string, 70 kN -fittings only		Set	1,362				
3.1.2	a) Single suspension string (Heavy Suspension), 120 kN -disc only		Set	126				
	a) Single suspension string (Heavy Suspension), 120 kN -fittings only		Set	126				
3.1.3	a) Single tension string, 120kN -disc only		Set	1224				
	b) Single tension string, 120kN -fittings only		Set	1224				
3.1.4	a) Single jumper suspension I-string, having each string 1x70 kN-disc only		Set	306				
	b) Single jumper suspension I-string, having each string 1x70 kN-fittings only		Set	306				
3.1.5	a) Single tension string, upright low duty 70kN- disc only		Set	12				
	b) Single tension string, upright low duty 70kN- fittings only		Set	12				
3.1.6	a) Single tension string, inverted low duty 70kN -discs only		Set	12				
	b) Single tension string, inverted low duty 70kN -fittings only		Set	12				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1C Plant and Mandatory Spare Parts Supplied from Abroad								
3.1.7	Counterweights for 120kN suspension insulator sets complete with yoke plate attachment bolts to be used for 1D1 towers:							
(a)	- 40kg set		each	3				
(b)	- 80kg set		each	3				
(c)	- 120kg set		each	5				
4	**Earthwire sets, complete with all accessories**							
4.1	**Over Land Portion**							
4.1.1	Suspension set		set	247				
4.1.2	Tension set		set	204				
5	**OPGW sets, complete with all accessories, incl. armour rods and earth bounds**							
5.1	**Over Land Portion**							
5.1.1	Suspension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)		set	247				
5.1.2	Tension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)		set	204				
6	**Dampers**							
6.1	**Over Land Portion**							
6.1.1	Vibration damper for phase conductor		per span	349				
6.1.2	Vibration damper for earthwire		per span	349				
6.1.3	Vibration damper for OPGW		per span	349				
6.1.4	Spacer for jumper		nos.	291				
7	**Aerial Markers**							
7.1	Painting of tower having height more than 60 meter in accordance with the requirements of the Technical Specification		per tower	5				
7.2	Painting of tower (Reflecting Paint) upto 3 meter in submerge area in accordance with the requirements of the Technical Specification		per tower	5				
7.3	Air craft obstruction lights solar powered complete with lamps, solar, panels, batteries, control equipment cables, support framework, tower work platform etc.		each	12				
7.4	Aircraft warning spheres		each	12				
7.5	Bird diverters		each	15				
7.6	Bird guards, one bird guard per each crossarm applied on intermediate towers		each	1416				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1C Plant and Mandatory Spare Parts Supplied from Abroad								
8	**Mandatory Spare Parts and Tools**							
8.1	**Insulator and Fittings**							
	Insulator sets complete with insulators and all hardware fittings including suspension clamps, tension dead ends,armour rods, arcing horn. Arcing ring etc							
8.1.1	70 kN single suspension Insulators set for "ACSR Grosbeak" - Complete Assembly		set	5				
8.1.2	70 kN jumper suspension set for "ACSR Grosbeak" - Complete Assembly		set	10				
8.1.3	120kN Single tension set for "ACSR Grosbeak" - Complete Assembly		set	20				
8.2	**Phase conductor, earthwire, OPGW & Fittings**							
8.2.1	Phase conductor "ACSR Grosbeak" conductor		km	7				
8.2.2	Midspan Joint for "ACSR Grosbeak " conductor		each	5				
8.2.3	Repair sleeve for "ACSR Grosbeak" conductor		each	5				
8.2.4	Jumper Spacer for "ACSR Grosbeak"		each	7				
8.2.5	Earthwire 7x3.25mm		km	7				
8.2.6	Midspan Joint for 7x3.25mm earthwire		each	3				
8.2.7	Suspension set for 7x3.25mm earthwire		each	10				
8.2.8	Tension set for 7x3.25mm earthwire		each	10				
8.2.9	Vibration damper for 7x3.25mm earthwire		each	15				
8.2.10	7x3.25mm Equivalent OPGW		km	10				
8.2.11	Suspension set for 7x3.25mm Equivalent OPGW		each	12				
8.2.12	Tension set for 7x3.25mm Equivalent OPGW		each	12				
8.2.13	Vibration damper for 7x3.25mm Equivalent OPGW		each	15				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1C Plant and Mandatory Spare Parts Supplied from Abroad								
8.3	Temporary earthing equipment		each	1				
8.4	Motorised jointing compressor for conductor complete with dies suitable for conductors & earthwires to be used for this Contract		each	2				
Total Columns 8 to be carried forward to Schedule No. 5 - Grand Summary								

Name of Bidder	
Signature of Bidder	

1 Specify currencies in accordance with ITB 19.1 of the BDS. Create additional columns for up to a maximum of three foreign currencies, if so required.

2 Bidders shall enter a code representing the country of origin of all imported plant and equipment.

3 Definition of route km: Route km is the transmission line distance between two terminal points in plan view. Route km is exclusive sag and other electrical clearances, elevation differences etc. The Contractor shall incorporate all such extra costs in his unit rate.

Country of Origin Declaration Form

Item	Description	Code	Country

Design, Supply, Installation, Testing & Commissioning of 230 kV and 132 kV Transmission Lines for Southern Area of Chattogram Division & Bangabandhu Hi-Tech City at Kaliakoir on Turnkey Basis (Contract No. PGCB/AIIB/000308-BGD/TL/Package-2)								
D. 132 kV Line-In-Line-Out (LILO) at Cox's Bazar (North) substation from Dohazari - Cox's Bazar 132 kV double circuit transmission line: 1.55 km (using Single ACSR Grosbeak equivalent ACCC conductor)								
Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1D Plant and Mandatory Spare Parts Supplied from Abroad								
1.Supply of 132 kV double circuit towers, complete with all stubs, nuts, bolts, locking nuts, washers, phase conductors and earthwire, swivels/shackles, step bolts, tower notice and identification plates, ACDs, protective coating, earthing, etc.								
1	**Supply of 132 kV Double circuit towers, complete with all stubs, nuts, bolts, locking nuts, washers, phase conductors and earthwire, swivels/shackles, step bolts, tower notice and identification plates, ACDs, protective coating, earthing, etc.**							
1.1	**Tower Type 1DT6**							
1.1.1	Tower Type 1DT6+6.0 m		each	1				
1.1.2	Tower Type 1DT6+9.0 m		each	1				
2	**Supply of 132 kV Four circuit towers, complete with all stubs, nuts, bolts, locking nuts, washers, phase conductors and earthwire, swivels/shackles, step bolts, tower notice and identification plates, ACDs, protective coating, earthing, etc.**							
2.1	**Tower Type 1QL**							
2.1.1	Tower Type 1QL+9.0 m		each	1				
2.2	**Tower Type 1Q15**							
2.2.1	Tower type 1Q15 +15.0 m		each	1				
2.3	**Tower Type 1Q30**							
2.3.1	Tower type 1Q30 +9.0 m		each	2				
2.4	**Tower Type 1QT6**							
2.4.1	Tower Type 1QT6+9.0 m		each	3				
3	**Auxiliary Crossarm for tower**							
3.1	Auxiliary Crossarm for Tower Type 1QT6		per set of three	4				
4	**Phase conductor, earthwire and OPGW cable, complete with repair sleeves and joints**							
4.1	"ACSR Grosbeak equivalent ACCC" (four circuit line, all circuits erected, one conductors per phase) [3]		Route km[3]	1.55				
4.2	Two optical fibre ground wire, 24 fibres 7×3.25 steel earthwire equivalent OPGW, including joint box		Route km[3]	1.55				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1D Plant and Mandatory Spare Parts Supplied from Abroad								
5	**insulator strings, with associated suspension and tension clamps for single "ACSR Grosbeak equivalent ACCC " Conductor**							
5.1	a) 70kN suspension Insulators set for single "ACSR Grosbeak equivalent ACCC" Conductor (Suspension) - disc only		Set	12				
	b) 70kN suspension Insulators set for single "ACSR Grosbeak equivalent ACCC" Conductor (Suspension) - hardware fittings only		Set	12				
5.2	a) 120kN tension Insulators Set for single "ACSR Grosbeak equivalent ACCC" Conductor - disc only		Set	156				
	b) 120kN tension Insulators Set for single "ACSR Grosbeak equivalent ACCC" Conductor - hardware fittings only		Set	156				
5.3	a) 70kN jumper suspension Insulators Set forsingle "ACSR Grosbeak equivalent ACCC" Conductor - disc only		Set	66				
	b) 70kN jumper suspension Insulators Set forsingle "ACSR Grosbeak equivalent ACCC" Conductor - hardware fittings only		Set	66				
5.4	a) 70kN single upright low duty Insulators Set for single "ACSR Grosbeak equivalent ACCC" Conductor - disc only		Set	12				
	b) 70kN single upright low duty Insulators Set for single "ACSR Grosbeak equivalent ACCC" Conductor - hardware fittings only		Set	12				
5.5	a) 70kN single inverted low duty Insulators Set for single "ACSR Grosbeak equivalent ACCC" Conductor - disc only		Set	12				
	b) 70kN single inverted low duty Insulators Fittings Set for single "ACSR Grosbeak equivalent ACCC" Conductor - hardware fittings only		Set	12				
6	**OPGW sets, complete with all accessories, incl. armour rods and earth bounds**							
6.1	Suspension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)		set	2				
6.2	Tension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)		set	28				
7	**Dampers**							
7.1	Vibration damper for phase conductor		per span	5				
7.2	Vibration damper for OPGW		per span	5				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1D Plant and Mandatory Spare Parts Supplied from Abroad								
8	**Aerial Markers**							
8.1	Air craft obstruction lights solar powered complete with lamps, solar, panels, batteries, control equipment cables, support framework, tower work platform etc.		Per tower	1				
8.2	Bird diverters		pcs.	3				
8.3	Bird guards, one bird guard per each crossarm applied on intermediate towers		pcs.	12				
8.4	Aircraft warning spheres		pcs.	1				
8.5	Painting of 60 meter and over tower in accordance with the requirements of the Technical Specification		per tower	1				
8.6	Painting of tower (Reflecting Paint) upto 3 meter in submerge area in accordance with the requirements of the Technical Specification		per tower	NIL				
9	**Mandatory Spare Parts and Tools**							
9.1	Conductor "ACSR Grosbeak equivalent ACCC" type		km	2				
9.2	Optical fibre ground wire, 24 fibres 7×3.25 steel earthwire equivalent OPGW		km	1				
9.3	a) 70kN suspension Insulators set for single "ACSR Grosbeak equivalent ACCC" Conductor (Suspension) - disc only		set	5				
	b) 70kN suspension Insulators set for single "ACSR Grosbeak equivalent ACCC" Conductor (Suspension) - hardware fittings only		set	5				
9.4	a) 120kN tension Insulators Set for single "ACSR Grosbeak equivalent ACCC" Conductor - disc only		set	6				
	b) 120kN tension Insulators Set for single "ACSR Grosbeak equivalent ACCC" Conductor - hardware fittings only		set	6				
9.5	OPGW 24 fibres suspension set		set	2				
9.6	OPGW 24 fibres tension set		set	2				
9.7	OPGW junction box		set	8				
9.8	Vibration damper for phase conductor single "ACSR Grosbeakequivalent ACCC" Conductor		each	6				
9.9	Vibration damper for OPGW		each	3				
9.10	Repair sleeve for conductor - single "ACSR Grosbeak equivalent ACCC" Conductor		pcs	3				

Item	Description	Country of origin[2]	Unit	Quantity	Unit Price[1]		Total Price[1]	Taxes and Duties
					Foreign Currency [xxx]	CIP	Foreign Currency [xxx] CIP	Local Currency [BDT]
1	2	3*	4	5	6	7	8= 5 x 7	9
Schedule No. 1D Plant and Mandatory Spare Parts Supplied from Abroad								
9.11	Midspan joints for conductor single "ACSR Grosbeak equivalent ACCC Conductor" Conductor		pcs	3				
9.12	Bird diverters		pcs	2				
9.13	Bird guard		pcs	4				
9.14	Terminal ground resistance tester (tools)		pcs	1				
9.15	**Temporary earthing equipment**		each	1				
9.16	**Motorised jointing compressor for conductor complete with dies suitable for conductors & earthwires to be used for this Contract**		each	1				
Total Columns 8 to be carried forward to Schedule No. 5 - Grand Summary								

Name of Bidder	
Signature of Bidder	

1 Specify currencies in accordance with ITB 19.1 of the BDS. Create additional columns for up to a maximum of three foreign currencies, if so required.

2 Bidders shall enter a code representing the country of origin of all imported plant and equipment.

3 Definition of route km: Route km is the transmission line distance between two terminal points in plan view. Route km is exclusive sag and other electrical clearances, elevation differences etc. The Contractor shall incorporate all such extra costs in his unit rate.

Country of Origin Declaration Form

Item	Description	Code	Country

Design, Supply, Installation, Testing & Commissioning of 230 kV and 132 kV Transmission Lines for Southern Area of Chattogram Division & Bangabandhu Hi-Tech City at Kaliakoir on Turnkey Basis (Contract No. PGCB/AIIB/000308-BGD/TL/Package-2)

A. Anwara-Cox's Bazar (North) 230 kV double circuit transmission line (Initially charged at 132 kV): 109 km with 0.49 km river crossing portion (using twin ACSR mallard Conductor)

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2A Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
1.Supply of 230 kV and 400kV double circuit towers, complete with all stubs, nuts, bolts, locking nuts, washers, phase conductors and earthwire, swivels/shackles, step bolts, tower notice and identification plates, ACDs, protective coating, earthing, etc.								
1.1	**Tower type "4D1-Q"**							
1.1.1	Tower type 4D1-Q+30 m	each	3					
1.1.2	Tower type 4D1-Q+40 m	each	3					
1.2	**Tower type "2DL"**							
1.2.1	Tower type 2DL Standard	each	10					
1.2.2	Tower type 2DL+1.5 m	each	10					
1.2.3	Tower type 2DL+3 m	each	18					
1.2.4	Tower type 2DL+4.5 m	each	28					
1.2.5	Tower type 2DL+6 m	each	33					
1.2.6	Tower type 2DL+9 m	each	43					
1.2.7	Tower type 2DL+12 m	each	36					
1.3	**Tower type "2D1"**							
1.3.1	Tower type 2D1 Standard	each	2					
1.3.2	Tower type 2D1 +1.5 m	each	2					
1.3.3	Tower type 2D1 +3 m	each	2					
1.3.4	Tower type 2D1 +4.5 m	each	2					
1.3.5	Tower type 2D1 +6 m	each	2					
1.3.6	Tower type 2D1 +9 m	each	3					
1.3.7	Tower type 2D1 +12 m	each	4					
1.3.8	Tower type 2D1 +15 m	each	4					
1.3.9	Tower type 2D1 +18 m	each	3					
1.3.10	Tower type 2D1 +21 m	each	2					
1.3.11	Tower type 2D1+25 m	each	2					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2A Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
1.4	**Tower type "2D25"**							
1.4.1	Tower type 2D25 Standard	each	5					
1.4.2	Tower type 2D25 +1.5 m	each	2					
1.4.3	Tower type 2D25+3 m	each	4					
1.4.4	Tower type 2D25 +4.5 m	each	2					
1.4.5	Tower type 2D25 +6 m	each	5					
1.4.6	Tower type 2D25 +9 m	each	11					
1.4.7	Tower type 2D25 +12 m	each	5					
1.4.8	Tower type 2D25 +15 m	each	4					
1.5	**Tower type "2DT6"**							
1.5.1	Tower type 2DT6 Standard	each	6					
1.5.2	Tower type 2DT6+1.5 m	each	3					
1.5.3	Tower type 2DT6+3 m	each	8					
1.5.4	Tower type 2DT6+4.5 m	each	3					
1.5.5	Tower type 2DT6+6 m	each	12					
1.5.6	Tower type 2DT6+9 m	each	14					
1.5.7	Tower type 2DT6+12 m	each	8					
1.5.8	Tower type 2DT6+15 m	each	8					
1.6	**Tower type "2D9"**							
1.6.1	Tower type 2D9 Standard	each	1					
1.6.2	Tower type 2D9+1.5 m	each	NIL					
1.6.3	Tower type 2D9+3 m	each	NIL					
1.6.4	Tower type 2D9+4.5 m	each	1					
1.6.5	Tower type 2D9+6 m	each	NIL					
1.6.6	Tower type 2D9+9 m	each	1					
1.6.7	Tower type 2D9+12 m	each	1					
1.6.8	Tower type 2D9+15 m	each	1					
1.7	**Tower type "2QL"**							
1.7.1	Tower type 2QL Standard	each	1					
1.7.2	Tower type 2QL+1.5 m	each	NIL					
1.7.3	Tower type 2QL+3 m	each	NIL					
1.7.4	Tower type 2QL+4.5 m	each	NIL					
1.7.5	Tower type 2QL+6 m	each	1					
1.7.6	Tower type 2QL+9 m	each	1					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2A Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
1.8	**Tower type "2Q1"**							
1.8.1	Tower type 2Q1 Standard	each	1					
1.8.2	Tower type 2Q1 +1.5 m	each	NIL					
1.8.3	Tower type 2Q1 +3 m	each	NIL					
1.8.4	Tower type 2Q1 +6 m	each	1					
1.8.5	Tower type 2Q1 +9 m	each	1					
1.8.6	Tower type 2Q1 +12 m	each	NIL					
1.8.7	Tower type 2Q1 +15 m	each	NIL					
1.8.8	Tower type 2Q1 +18 m	each	NIL					
1.8.9	Tower type 2Q1 +21 m	each	NIL					
1.8.10	Tower type 2Q1 +25 m	each	NIL					
1.9	**Tower type "2Q15"**							
1.9.1	Tower type 2Q15 Standard	each	1					
1.9.2	Tower type 2Q15 +1.5 m	each	NIL					
1.9.3	Tower type 2Q15 +3 m	each	NIL					
1.9.4	Tower type 2Q15 +6 m	each	1					
1.9.5	Tower type 2Q15 +9 m	each	1					
1.10	**Tower type "2Q30"**							
1.10.1	Tower type 2Q30 Standard	each	1					
1.10.2	Tower type 2Q30+1.5 m	each	NIL					
1.10.3	Tower type 2Q30+3 m	each	NIL					
1.10.4	Tower type 2Q30+4.5 m	each	NIL					
1.10.5	Tower type 2Q30+6 m	each	1					
1.10.6	Tower type 2Q30+9 m	each	1					
1.11	**Tower type "2QT6"**							
1.11.1	Tower type 2QT6 Standard	each	1					
1.11.2	Tower type 2QT6+1.5 m	each	NIL					
1.11.3	Tower type 2QT6+3 m	each	NIL					
1.11.4	Tower type 2QT6+4.5 m	each	NIL					
1.11.5	Tower type 2QT6+ 6 m	each	1					
1.11.6	Tower type 2QT6+ 9 m	each	1					
1.12	**Tower type "2T"**							
1.12.1	Tower type 2T Standard	each	1					
1.12.2	Tower type 2T+3 m	each	1					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2A Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
	River Crossing Portion							
1.13	**Tower type 2DR**							
1.13.1	Tower type 2DR Standard	each	2					
1.13.2	Tower type 2DR M20	each	1					
1.14	**Tower type 2DAX**							
1.14.1	Tower type 2DAX Standard	each	3					
1.15	Auxiliary crossarm for tower type 2DT6	per set of three	3					
1.16	Auxiliary crossarm for tower type 2QT6	per set of three	4					
1.17	Galvanized Tower Steel							
(a)	Fabricated	ton	30					
(b)	Non-fabricated	ton	30					
2	**Phase conductor, earthwire and OPGW cable, complete with repair sleeves and joints**							
2.1	**Overland Portion**							
2.1.1	"ACSR Mallard" Phase Conductor (3 Phase, Double Circuit, Twin Conductor per phase on the line)	Route km^3	109					
2.1.2	7x4.00mm equivalent OPGW inclusive of joint boxes, fixing clamps, fusion splices and connections to the joint boxes. Two OPGW earthwire on the line.	Route km^3	109					
2.2	**River Crossing Portion**							
2.2.1	"ACSR Mallard" Phase Conductor (3 Phase, double circuit line, both circuits erected, one conductors per phase)	Route km^3	0.49					
2.2.2	19x3.67 20SA earthwire equivalent OPGW inclusive of joint boxes, fixing clamps, fusion splices and connections to the joint boxes. Two OPGW earthwire on the line.	Route km^3	0.49					
3	**Insulator strings, with associated suspension and tension clamps for twin ACSR Mallard Conductor**							
3.1	**Over Land Portion**							
3.1.1	a) Single suspension string, 120 kN -disc only (Fog type shed)	Set	1,086					
	b) Single suspension string, 120 kN -fittings only	Set	1,086					
3.1.2	a) Single suspension string (Heavy Suspension), 210 kN -disc only (Fog type shed)	Set	222					
	a) Single suspension string (Heavy Suspension), 210 kN -fittings only	Set	222					
3.1.3	a) Double tension string,2x210kN -disc only (Fog type shed)	Set	1,332					
	b) Double tension string,2x210kN -fittings only	Set	1,332					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2A Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
3.1.4	a) Single jumper suspension I-string, having each string 1x120 kN-disc only (Fog type shed)	Set	339					
	b) Single jumper suspension I-string, having each string 1x120 kN-fittings only	Set	339					
3.1.5	a) Single tension string, upright low duty 120kN- disc only (Fog type shed)	Set	12					
	b) Single tension string, upright low duty 120kN- fittings only	Set	12					
3.1.6	a) Single tension string, inverted low duty 120kN -discs only (Fog type shed)	Set	12					
	b) Single tension string, inverted low duty 120kN -fittings only	Set	12					
3.1.7	Counterweights for 210kN suspension insulator sets complete with yoke plate attachment bolts to be used for 2D1 towers:							
(a)	- 40kg set	each	3					
(b)	- 80kg set	each	3					
(c)	- 120kg set	each	5					
3.2	**River Crossing Portion**							
3.2.1	a) 210kN twin suspension Insulators Set (2x210kN) for River Crossing Portion of Twin ACSR Mallard Conductor - disc only (Fog type shed)	Set	18					
	b) 210kN twin suspension Insulators Fittings Set (2x210kN) for River Crossing Portion of Twin ACSR Mallard Conductor - hardware fittings only	Set	18					
3.2.2	a) 300kN twin tension Insulators Set (2x300kN) for River Cossing Portion of Twin ACSR Mallard Conductor - disc only (Fog type shed)	Set	36					
	b) 300kN twin tension Insulators Fittings Set for (2x300kN) River Crossing Portion of Twin ACSR Mallard Conductor - hardware fittings only	Set	36					
4	**OPGW sets, complete with all accessories, incl. armour rods and earth bounds**							
4.1	**Over Land Portion**							
4.1.1	Suspension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)	set	218					
4.1.2	Tension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)	set	218					
4.2	**River Crossing Portion**							
4.2.1	Suspension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)	set	6					
4.2.2	Tension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)	set	12					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2A Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
5	**Dampers**							
5.1	**Over Land Portion**							
5.1.1	Vibration damper for phase conductor	per span	339					
5.1.2	Spacer damper for phase conductor	per span	339					
5.1.3	Vibration damper for OPGW	per span	339					
5.1.4	Spacer for jumper	nos.	300					
5.2	**River Crossing Portion**							
5.2.1	Vibration damper for phase conductor	per span	5					
5.2.2	Spacer damper for phase conductor	per span	5					
5.2.3	Vibration damper for OPGW	per span	5					
5.2.4	Spacer for jumper	nos.	18					
6	**Aerial Markers**							
6.1	Painting of tower having height more than 60 meter in accordance with the requirements of the Technical Specification	per tower	17					
6.1	Painting of tower (Reflecting Paint) upto 3 meter in submerge area in accordance with the requirements of the Technical Specification	per tower	5					
6.1	Air craft obstruction lights solar powered complete with lamps, solar, panels, batteries, control equipment cables, support framework, tower work platform etc.	each	30					
6.1	Aircraft warning spheres	each	17					
6.1	Bird diverters	each	15					
6.1	Bird guards, one bird guard per each crossarm applied on intermediate towers	each	1272					
7	**Mandatory Spare Parts and Tools**							
7.1	**Insulator and Fittings**							
	Insulator sets complete with insulators and all hardware fittings including suspension clamps, tension dead ends,armour rods, arcing horn. Arcing ring etc							
7.1.1	120kN single suspension Insulators set for "ACSR Mallard" - Complete Assembly (Fog type shed)	set	5					
7.1.2	120kN jumper suspension set for "ACSR Mallard" - Complete Assembly (Fog type shed)	set	10					
7.1.3	210kN Single tension set for "ACSR Mallard" - Complete Assembly (Fog type shed)	set	20					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2A Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
7.2	**Phase conductor, earthwire, OPGW & Fittings**							
7.2.1	Phase conductor "ACSR Mallard" conductor	km	7					
7.2.2	Midspan Joint for "ACSR Mallard " conductor	each	5					
7.2.3	Repair sleeve for "ACSR Mallard" conductor	each	5					
7.2.4	Spacer Damper for "ACSR Mallard"	each	7					
7.2.5	Jumper Spacer for "ACSR Mallard"	each	7					
7.2.6	7x4.00mm Equivalent OPGW	km	10					
7.2.7	Suspension set for 7x4.00mm Equivalent OPGW	each	12					
7.2.8	Tension set for 7x4.00mm Equivalent OPGW	each	12					
7.2.9	Vibration damper for 7x4.00mm Equivalent OPGW	each	15					
7.3	**Temporary earthing equipment**	each	1					
7.4	**Motorised jointing compressor for conductor complete with dies suitable for conductors & earthwires to be used for this Contract**	each	2					
Total Columns 8 to be carried forward to Schedule No. 5 - Grand Summary								

Name of Bidder

Signature of Bidder

1 Specify currencies in accordance with ITB 19.1 of the BDS. Create additional columns for up to a maximum of three foreign currencies, if so required.

2 Bidders shall enter a code representing the country of origin of all imported plant and equipment.

3 Definition of route km: Route km is the transmission line distance between two terminal points in plan view. Route km is exclusive sag and other electrical clearances, elevation differences etc. The Contractor shall incorporate all such extra costs in his unit rate.

Country of Origin Declaration Form

Item	Description	Country

Design, Supply, Installation, Testing & Commissioning of 230 kV and 132 kV Transmission Lines for Southern Area of Chattogram Division & Bangabandhu Hi-Tech City at Kaliakoir on Turnkey Basis (Contract No. PGCB/AIIB/000308-BGD/TL/Package-2)

B. Bangabandhu Hi-Tech City-Kaliakoir 230 kV double circuit transmission line: 4.88 km (using Twin ACSR Mallard conductor)

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2B Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
1.Supply of 230 kV double circuit towers, complete with all stubs, nuts, bolts, locking nuts, washers, phase conductors and earthwire, swivels/shackles, step bolts, tower notice and identification plates, ACDs, protective coating, earthing, etc.								
1.1	**Tower type 2DL Standard**	each	1					
1.1.1	Tower type 2DL+1.5 m	each	NIL					
1.1.2	Tower type 2DL+3 m	each	NIL					
1.1.3	Tower type 2DL+4.5 m	each	NIL					
1.1.4	Tower type 2DL+6 m	each	1					
1.1.5	Tower type 2DL+9 m	each	1					
1.1.6	Tower type 2DL+12 m	each	1					
1.2	**Tower type "2D1"**							
1.2.1	Tower type 2D1 Standard	each	1					
1.2.2	Tower type 2D1 +1.5 m	each	NIL					
1.2.3	Tower type 2D1 +3 m	each	NIL					
1.2.4	Tower type 2D1 +4.5 m	each	NIL					
1.2.5	Tower type 2D1 +6 m	each	NIL					
1.2.6	Tower type 2D1 +9 m	each	1					
1.2.7	Tower type 2D1 +12 m	each	NIL					
1.2.8	Tower type 2D1 +15 m	each	NIL					
1.2.9	Tower type 2D1 +18 m	each	NIL					
1.2.10	Tower type 2D1 +21 m	each	1					
1.3	**Tower type "2D25"**							
1.3.1	Tower type 2D25 Standard	each	1					
1.3.2	Tower type 2D25 +1.5 m	each	NIL					
1.3.3	Tower type 2D25+3 m	each	1					
1.3.4	Tower type 2D25 +4.5 m	each	NIL					
1.3.5	Tower type 2D25 +6 m	each	NIL					
1.3.6	Tower type 2D25 +9 m	each	1					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2B Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
1.3.7	Tower type 2D25 +12 m	each	NIL					
1.3.8	Tower type 2D25 +15 m	each	1					
1.4	**Tower type "2DT6"**							
1.4.1	Tower type 2DT6 Standard	each	1					
1.4.2	Tower type 2DT6+1.5 m	each	NIL					
1.4.3	Tower type 2DT6+3 m	each	NIL					
1.4.4	Tower type 2DT6+4.5 m	each	NIL					
1.4.5	Tower type 2DT6+6 m	each	1					
1.4.6	Tower type 2DT6+9 m	each	1					
1.4.7	Tower type 2DT6+12 m	each	NIL					
1.4.8	Tower type 2DT6+15 m	each	NIL					
1.5	**Tower type "2QL"**							
1.5.1	Tower type 2QL Standard	each	NIL					
1.5.2	Tower type 2QL+1.5 m	each	NIL					
1.5.3	Tower type 2QL+3 m	each	NIL					
1.5.4	Tower type 2QL+4.5 m	each	NIL					
1.5.5	Tower type 2QL+6 m	each	1					
1.5.6	Tower type 2QL+9 m	each	1					
1.6	**Tower type "2Q1"**							
1.6.1	Tower type 2Q1 Standard	each	NIL					
1.6.2	Tower type 2Q1 +1.5 m	each	NIL					
1.6.3	Tower type 2Q1 +3 m	each	NIL					
1.6.4	Tower type 2Q1 +6 m	each	1					
1.6.5	Tower type 2Q1 +9 m	each	1					
1.6.6	Tower type 2Q1 +12 m	each	NIL					
1.6.7	Tower type 2Q1 +15 m	each	NIL					
1.6.8	Tower type 2Q1 +18 m	each	NIL					
1.6.9	Tower type 2Q1 +21 m	each	NIL					
1.6.10	Tower type 2Q1 +25 m	each	NIL					
1.7	**Tower type "2Q15"**							
1.7.1	Tower type 2Q15 Standard	each	NIL					
1.7.2	Tower type 2Q15 +1.5 m	each	NIL					
1.7.3	Tower type 2Q15 +3 m	each	NIL					
1.7.4	Tower type 2Q15 +6 m	each	1					
1.7.5	Tower type 2Q15 +9 m	each	1					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2B Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
1.8	**Tower type "2Q30"**							
1.8.1	Tower type 2Q30 Standard	each	NIL					
1.8.2	Tower type 2Q30+1.5 m	each	NIL					
1.8.3	Tower type 2Q30+3 m	each	NIL					
1.8.4	Tower type 2Q30+4.5 m	each	NIL					
1.8.5	Tower type 2Q30+6 m	each	1					
1.8.6	Tower type 2Q30+9 m	each	1					
1.9	**Tower type "2QT6"**							
1.9.1	Tower type 2QT6 Standard	each	NIL					
1.9.2	Tower type 2QT6+1.5 m	each	NIL					
1.9.3	Tower type 2QT6+3 m	each	NIL					
1.9.4	Tower type 2QT6+4.5 m	each	NIL					
1.9.5	Tower type 2QT6+ 6 m	each	1					
1.9.6	Tower type 2QT6+ 9 m	each	1					
1.10	Auxiliary crossarm for tower type 2DT6	per set of three	3					
1.11	Auxiliary crossarm for tower type 2QT6	per set of three	4					
1.12	Galvanized Tower Steel							
(a)	Fabricated	ton	10					
(b)	Non-fabricated	ton	5					
2	**Phase conductor, earthwire and OPGW cable, complete with repair sleeves and joints**							
2.1	**Overland Portion**							
2.1.1	"ACSR Mallard" Phase Conductor (3 Phase, Double Circuit, Twin Conductor per phase on the line)	Route km[3]	4.88					
2.1.2	7x4.00mm equivalent OPGW inclusive of joint boxes, fixing clamps, fusion splices and connections to the joint boxes. One OPGW earthwire on the line.	Route km[3]	4.88					
2.1.3	7x4.00mm earthwire. One earthwire on the line.	Route km[3]	4.88					
3	**Insulator strings, with associated suspension and tension clamps for twin ACSR Mallard Conductor**							
3.1	**Over Land Portion**							
3.1.1	a) Single suspension string, 120 kN -disc only	Set	36					
	b) Single suspension string, 120 kN -fittings only	Set	36					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2B Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
3.1.2	a) Single suspension string (Heavy Suspension), 210 kN -disc only	Set	30					
	a) Single suspension string (Heavy Suspension), 210 kN -fittings only	Set	30					
3.1.3	a) Single tension string,2x210kN -disc only	Set	156					
	b) Single tension string,2x210kN -fittings only	Set	156					
3.1.4	a) Single jumper suspension I-string, having each string 1x120 kN-disc only	Set	39					
	b) Single jumper suspension I-string, having each string 1x120 kN-fittings only	Set	39					
3.1.5	a) Single tension string, upright low duty 120kN- disc only	Set	12					
	b) Single tension string, upright low duty 120kN- fittings only	Set	12					
3.1.6	a) Single tension string, inverted low duty 120kN -discs only	Set	12					
	b) Single tension string, inverted low duty 120kN -fittings only	Set	12					
3.1.7	Counterweights for 210kN suspension insulator sets complete with yoke plate attachment bolts to be used for 2D1 towers:							
(a)	- 40kg set	each	3					
(b)	- 80kg set	each	3					
(c)	- 120kg set	each	5					
4	**Earthwire sets, complete with all accessories**							
4.1	**Over Land Portion**							
4.1.1	Suspension set	set	7					
4.1.2	Tension set	set	14					
5	**OPGW sets, complete with all accessories, incl. armour rods and earth bounds**							
5.1	**Over Land Portion**							
5.1.1	Suspension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)	set	7					
5.1.2	Tension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)	set	14					
6	**Dampers**							
6.1	**Over Land Portion**							
6.1.1	Vibration damper for phase conductor	per span	23					
6.1.2	Spacer damper for phase conductor	per span	23					
6.1.3	Vibration damper for earthwire	per span	23					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2B Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
6.1.4	Vibration damper for OPGW	per span	23					
6.1.5	Spacer for jumper	nos.	21					
7	**Aerial Markers**							
7.1	Painting of tower having height more than 60 meter in accordance with the requirements of the Technical Specification	per tower	5					
7.2	Painting of tower (Reflecting Paint) upto 3 meter in submerge area in accordance with the requirements of the Technical Specification	per tower	5					
7.3	Air craft obstruction lights solar powered complete with lamps, solar, panels, batteries, control equipment cables, support framework, tower work platform etc.	each	12					
7.4	Aircraft warning spheres	each	12					
7.5	Bird diverters	each	15					
7.6	Bird guards, one bird guard per each crossarm applied on intermediate towers	each	42					
8	**Mandatory Spare Parts and Tools**							
8.1	**Insulator and Fittings**							
	Insulator sets complete with insulators and all hardware fittings including suspension clamps, tension dead ends,armour rods, arcing horn. Arcing ring etc							
8.1.1	120kN single suspension Insulators set for "ACSR Mallard" - Complete Assembly	set	5					
8.1.2	120kN jumper suspension set for "ACSR Mallard" - Complete Assembly	set	10					
8.1.3	210kN Single tension set for "ACSR Mallard" - Complete Assembly	set	20					
8.2	**Phase conductor, earthwire, OPGW & Fittings**							
8.2.1	Phase conductor "ACSR Mallard" conductor	km	7					
8.2.2	Midspan Joint for "ACSR Mallard " conductor	each	5					
8.2.3	Repair sleeve for "ACSR Mallard" conductor	each	5					
8.2.4	Spacer Damper for "ACSR Mallard"	each	7					
8.2.5	Jumper Spacer for "ACSR Mallard"	each	7					
8.2.6	Earthwire 7x4.00mm	km	7					
8.2.7	Midspan Joint for 7x4.00mm earthwire	each	3					
8.2.8	Suspension set for 7x4.00mm earthwire	each	10					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2B Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
8.2.9	Tension set for 7x4.00mm earthwire	each	10					
8.2.10	Vibration damper for 7x4.00mm earthwire	each	15					
8.2.11	7x4.00mm Equivalent OPGW	km	10					
8.2.12	Suspension set for 7x4.00mm Equivalent OPGW	each	12					
8.2.13	Tension set for 7x4.00mm Equivalent OPGW	each	12					
8.2.14	Vibration damper for 7x4.00mm Equivalent OPGW	each	15					
8.3	**Temporary earthing equipment**	each	1					
8.4	**Motorised jointing compressor for conductor complete with dies suitable for conductors & earthwires to be used for this Contract**	each	2					
Total Columns 8 to be carried forward to Schedule No. 5 - Grand Summary								

Name of Bidder

Signature of Bidder

1 Specify currencies in accordance with ITB 19.1 of the BDS. Create additional columns for up to a maximum of three foreign currencies, if so required.

2 Bidders shall enter a code representing the country of origin of all imported plant and equipment.

3 Definition of route km: Route km is the transmission line distance between two terminal points in plan view. Route km is exclusive sag and other electrical clearances, elevation differences etc. The Contractor shall incorporate all such extra costs in his unit rate.

Country of Origin Declaration Form

Item	Description	Country

Design, Supply, Installation, Testing & Commissioning of 230 kV and 132 kV Transmission Lines for Southern Area of Chattogram Division & Bangabandhu Hi-Tech City at Kaliakoir on Turnkey Basis (Contract No. PGCB/AIIB/000308-BGD/TL/Package-2)								
C. Cox's Bazar (North)-Teknaf 132 kV double circuit transmission line: 65 km (using Single ACSR Grosbeak Conductor)								
Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2C Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
1.Supply of 132 kV double circuit towers, complete with all stubs, nuts, bolts, locking nuts, washers, phase conductors and earthwire, swivels/shackles, step bolts, tower notice and identification plates, ACDs, protective coating, earthing, etc.								
1.1	**Tower type "1DL"**							
1.1.1	Tower type 1DL Standard	each	20					
1.1.2	Tower type 1DL+1.5 m	each	25					
1.1.3	Tower type 1DL+3 m	each	25					
1.1.4	Tower type 1DL+4.5 m	each	40					
1.1.5	Tower type 1DL+6 m	each	52					
1.1.6	Tower type 1DL+9 m	each	52					
1.2	**Tower type "1D1"**							
1.2.1	Tower type 1D1 Standard	each	NIL					
1.2.2	Tower type 1D1 +1.5 m	each	NIL					
1.2.3	Tower type 1D1 +3 m	each	NIL					
1.2.4	Tower type 1D1 +4.5 m	each	NIL					
1.2.5	Tower type 1D1 +6 m	each	5					
1.2.6	Tower type 1D1 +9 m	each	5					
1.2.7	Tower type 1D1 +12 m	each	10					
1.3	**Tower type "1D25"**							
1.3.1	Tower type 1D25 Standard	each	5					
1.3.2	Tower type 1D25 +1.5 m	each	7					
1.3.3	Tower type 1D25+3 m	each	10					
1.3.4	Tower type 1D25 +9 m	each	18					
1.4	**Tower type "1DT6"**							
1.4.1	Tower type 1DT6 Standard	each	5					
1.4.2	Tower type 1DT6+1.5 m	each	5					
1.4.3	Tower type 1DT6+3 m	each	5					
1.4.4	Tower type 1DT6+4.5 m	each	9					
1.4.5	Tower type 1DT6+6 m	each	12					
1.4.6	Tower type 1DT6+9 m	each	12					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2C Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
1.5	**Tower Type 1QL**							
1.5.1	Tower Type 1QL Standard	each	NIL					
1.5.2	Tower Type 1QL+1.5 m	each	NIL					
1.5.3	Tower Type 1QL+3.0 m	each	3					
1.5.4	Tower Type 1QL+4.5 m	each	NIL					
1.5.5	Tower Type 1QL+6.0 m	each	3					
1.5.6	Tower Type 1QL+9.0 m	each	6					
1.6	**Tower Type 1Q15**							
1.6.1	Tower type 1Q15 Standard	each	NIL					
1.6.2	Tower type 1Q15 +1.5 m	each	NIL					
1.6.3	Tower type 1Q15 +3.0 m	each	NIL					
1.6.4	Tower type 1Q15 +4.5 m	each	NIL					
1.6.5	Tower type 1Q15 +6.0 m	each	1					
1.6.6	Tower type 1Q15+9.0 m	each	1					
1.6.7	Tower type 1Q15 +12.0 m	each	1					
1.6.8	Tower type 1Q15 +15.0 m	each	NIL					
1.7	**Tower Type 1Q30**							
1.7.1	Tower type 1Q30 Standard	each	NIL					
1.7.2	Tower type 1Q30 +3.0 m	each	1					
1.7.3	Tower type 1Q30 +4.5 m	each	NIL					
1.7.4	Tower type 1Q30 +6.0 m	each	1					
1.7.5	Tower type 1Q30 +9.0 m	each	1					
1.8	**Tower Type 1QT6**							
1.8.1	Tower type 1QT6 Standard	each	NIL					
1.8.2	Tower type 1QT6+1.5 m	each	NIL					
1.8.3	Tower type1QT6+3.0 m	each	1					
1.8.4	Tower type 1QT6+4.5 m	each	NIL					
1.8.5	Tower Type 1QT6+6.0 m	each	1					
1.8.6	Tower Type 1QT6+9.0 m	each	3					
1.9	**Pole**							
1.9.1	Pole type 1DLP	each	1					
1.9.2	Pole type 1D1P	each	1					
1.9.3	Pole type 1D25P	each	1					
1.9.4	Pole type 1DT6P	each	1					
1.9.5	Pole type 1D9P	each	1					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2C Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
1.10	Auxiliary Crossarm for pole type 1DT6P	per set of three	1					
1.11	Auxiliary crossarm for tower type 1DT6	per set of three	3					
1.12	Auxiliary crossarm for tower type 1QT6	per set of three	4					
1.13	Galvanized Tower Steel							
(a)	Fabricated	ton	20					
(b)	Non-fabricated	ton	10					
2	**Phase conductor, earthwire and OPGW cable, complete with repair sleeves and joints**							
2.1	**Overland Portion**							
2.1.1	"ACSR Grosbeak" Phase Conductor (3 Phase, Double Circuit, Single Conductor per phase on the line)	Route km^3	65					
2.1.2	7x3.25mm equivalent OPGW inclusive of joint boxes, fixing clamps, fusion splices and connections to the joint boxes. One OPGW earthwire on the line.	Route km^3	65					
2.1.3	7x3.25mm earthwire. One earthwire on the line.	Route km^3	65					
3	**Insulator strings, with associated suspension and tension clamps for twin ACSR Mallard Conductor**							
3.1	**Over Land Portion**							
3.1.1	a) Single suspension string, 70 kN -disc only	Set	1362					
	b) Single suspension string, 70 kN -fittings only	Set	1362					
3.1.2	a) Single suspension string (Heavy Suspension), 120 kN -disc only	Set	126					
	a) Single suspension string (Heavy Suspension), 120 kN -fittings only	Set	126					
3.1.3	a) Single tension string, 120kN -disc only	Set	1224					
	b) Single tension string, 120kN -fittings only	Set	1224					
3.1.4	a) Single jumper suspension I-string, having each string 1x70 kN-disc only	Set	306					
	b) Single jumper suspension I-string, having each string 1x70 kN-fittings only	Set	306					
3.1.5	a) Single tension string, upright low duty 70kN- disc only	Set	12					
	b) Single tension string, upright low duty 70kN- fittings only	Set	12					
3.1.6	a) Single tension string, inverted low duty 70kN -discs only	Set	12					
	b) Single tension string, inverted low duty 70kN -fittings only	Set	12					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2C Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
3.1.7	Counterweights for 120kN suspension insulator sets complete with yoke plate attachment bolts to be used for 1D1 towers:							
(a)	- 40kg set	each	3					
(b)	- 80kg set	each	3					
(c)	- 120kg set	each	5					
4	**Earthwire sets, complete with all accessories**							
4.1	**Over Land Portion**							
4.1.1	Suspension set	set	247					
4.1.2	Tension set	set	204					
5	**OPGW sets, complete with all accessories, incl. armour rods and earth bounds**							
5.1	**Over Land Portion**							
5.1.1	Suspension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)	set	247					
5.1.2	Tension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)	set	204					
6	**Dampers**							
6.1	**Over Land Portion**							
6.1.1	Vibration damper for phase conductor	per span	349					
6.1.2	Vibration damper for earthwire	per span	349					
6.1.3	Vibration damper for OPGW	per span	349					
6.1.4	Spacer for jumper	nos.	291					
7	**Aerial Markers**							
7.1	Painting of tower having height more than 60 meter in accordance with the requirements of the Technical Specification	per tower	5					
7.2	Painting of tower (Reflecting Paint) upto 3 meter in submerge area in accordance with the requirements of the Technical Specification	per tower	5					
7.3	Air craft obstruction lights solar powered complete with lamps, solar, panels, batteries, control equipment cables, support framework, tower work platform etc.	each	12					
7.4	Aircraft warning spheres	each	12					
7.5	Bird diverters	each	15					
7.6	Bird guards, one bird guard per each crossarm applied on intermediate towers	each	1416					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2C Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
8	**Mandatory Spare Parts and Tools**							
8.1	**Insulator and Fittings**							
	Insulator sets complete with insulators and all hardware fittings including suspension clamps, tension dead ends,armour rods, arcing horn. Arcing ring etc							
8.1.1	70 kN single suspension Insulators set for "ACSR Grosbeak" - Complete Assembly	set	5					
8.1.2	70 kN jumper suspension set for "ACSR Grosbeak" - Complete Assembly	set	10					
8.1.3	120 kN Single tension set for "ACSR Grosbeak" - Complete Assembly	set	20					
8.2	**Phase conductor, earthwire, OPGW & Fittings**							
8.2.1	Phase conductor "ACSR Grosbeak" conductor	km	7					
8.2.2	Midspan Joint for "ACSR Grosbeak " conductor	each	5					
8.2.3	Repair sleeve for "ACSR Grosbeak" conductor	each	5					
8.2.4	Jumper Spacer for "ACSR Grosbeak"	each	7					
8.2.5	Earthwire 7x3.25mm	km	7					
8.2.6	Midspan Joint for 7x3.25mm earthwire	each	3					
8.2.7	Suspension set for 7x3.25mm earthwire	each	10					
8.2.8	Tension set for 7x3.25mm earthwire	each	10					
8.2.9	Vibration damper for 7x3.25mm earthwire	each	15					
8.2.10	7x3.25mm Equivalent OPGW	km	10					
8.2.11	Suspension set for 7x3.25mm Equivalent OPGW	each	12					
8.2.12	Tension set for 7x3.25mm Equivalent OPGW	each	12					
8.2.13	Vibration damper for 7x3.25mm Equivalent OPGW	each	15					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2C Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
8.3	Temporary earthing equipment	each	1					
8.4	Motorised jointing compressor for conductor complete with dies suitable for conductors & earthwires to be used for this Contract	each	2					
Total Columns 8 to be carried forward to Schedule No. 5 - Grand Summary								

Name of Bidder

Signature of Bidder

1 Specify currencies in accordance with ITB 19.1 of the BDS. Create additional columns for up to a maximum of three foreign currencies, if so required.

2 Bidders shall enter a code representing the country of origin of all imported plant and equipment.

3 Definition of route km: Route km is the transmission line distance between two terminal points in plan view. Route km is exclusive sag and other electrical clearances, elevation differences etc. The Contractor shall incorporate all such extra costs in his unit rate.

Country of Origin Declaration Form

Item	Description	Country

C. Cox's Bazar (North)-Teknaf 132 kV double circuit transmission line: 65 km (using Single ACSR Grosbeak Conductor)

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2C Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
1.Supply of 132 kV double circuit towers, complete with all stubs, nuts, bolts, locking nuts, washers, phase conductors and earthwire, swivels/shackles, step bolts, tower notice and identification plates, ACDs, protective coating, earthing, etc.								
1.1	**Tower type "1DL"**							
1.1.1	Tower type 1DL Standard	each	20					
1.1.2	Tower type 1DL+1.5 m	each	25					
1.1.3	Tower type 1DL+3 m	each	25					
1.1.4	Tower type 1DL+4.5 m	each	40					
1.1.5	Tower type 1DL+6 m	each	52					
1.1.6	Tower type 1DL+9 m	each	52					
1.2	**Tower type "1D1"**							
1.2.1	Tower type 1D1 Standard	each	NIL					
1.2.2	Tower type 1D1 +1.5 m	each	NIL					
1.2.3	Tower type 1D1 +3 m	each	NIL					
1.2.4	Tower type 1D1 +4.5 m	each	NIL					
1.2.5	Tower type 1D1 +6 m	each	5					
1.2.6	Tower type 1D1 +9 m	each	5					
1.2.7	Tower type 1D1 +12 m	each	10					
1.3	**Tower type "1D25"**							
1.3.1	Tower type 1D25 Standard	each	5					
1.3.2	Tower type 1D25 +1.5 m	each	7					
1.3.3	Tower type 1D25+3 m	each	10					
1.3.4	Tower type 1D25 +9 m	each	18					
1.4	**Tower type "1DT6"**							
1.4.1	Tower type 1DT6 Standard	each	5					
1.4.2	Tower type 1DT6+1.5 m	each	5					
1.4.3	Tower type 1DT6+3 m	each	5					
1.4.4	Tower type 1DT6+4.5 m	each	9					
1.4.5	Tower type 1DT6+6 m	each	12					
1.4.6	Tower type 1DT6+9 m	each	12					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2C Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
1.5	**Tower Type 1QL**							
1.5.1	Tower Type 1QL Standard	each	NIL					
1.5.2	Tower Type 1QL+1.5 m	each	NIL					
1.5.3	Tower Type 1QL+3.0 m	each	3					
1.5.4	Tower Type 1QL+4.5 m	each	NIL					
1.5.5	Tower Type 1QL+6.0 m	each	3					
1.5.6	Tower Type 1QL+9.0 m	each	6					
1.6	**Tower Type 1Q15**							
1.6.1	Tower type 1Q15 Standard	each	NIL					
1.6.2	Tower type 1Q15 +1.5 m	each	NIL					
1.6.3	Tower type 1Q15 +3.0 m	each	NIL					
1.6.4	Tower type 1Q15 +4.5 m	each	NIL					
1.6.5	Tower type 1Q15 +6.0 m	each	1					
1.6.6	Tower type 1Q15+9.0 m	each	1					
1.6.7	Tower type 1Q15 +12.0 m	each	1					
1.6.8	Tower type 1Q15 +15.0 m	each	NIL					
1.7	**Tower Type 1Q30**							
1.7.1	Tower type 1Q30 Standard	each	NIL					
1.7.2	Tower type 1Q30 +3.0 m	each	1					
1.7.3	Tower type 1Q30 +4.5 m	each	NIL					
1.7.4	Tower type 1Q30 +6.0 m	each	1					
1.7.5	Tower type 1Q30 +9.0 m	each	1					
1.8	**Tower Type 1QT6**							
1.8.1	Tower type 1QT6 Standard	each	NIL					
1.8.2	Tower type 1QT6+1.5 m	each	NIL					
1.8.3	Tower type1QT6+3.0 m	each	1					
1.8.4	Tower type 1QT6+4.5 m	each	NIL					
1.8.5	Tower Type 1QT6+6.0 m	each	1					
1.8.6	Tower Type 1QT6+9.0 m	each	3					
1.9	**Pole**							
1.9.1	Pole type 1DLP	each	1					
1.9.2	Pole type 1D1P	each	1					
1.9.3	Pole type 1D25P	each	1					
1.9.4	Pole type 1DT6P	each	1					
1.9.5	Pole type 1D9P	each	1					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2C Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
1.10	Auxiliary Crossarm for pole type 1DT6P	per set of three	1					
1.11	Auxiliary crossarm for tower type 1DT6	per set of three	3					
1.12	Auxiliary crossarm for tower type 1QT6	per set of three	4					
1.13	Galvanized Tower Steel							
(a)	Fabricated	ton	20					
(b)	Non-fabricated	ton	10					
2	**Phase conductor, earthwire and OPGW cable, complete with repair sleeves and joints**							
2.1	**Overland Portion**							
2.1.1	"ACSR Grosbeak" Phase Conductor (3 Phase, Double Circuit, Single Conductor per phase on the line)	Route km^3	65					
2.1.2	7x3.25mm equivalent OPGW inclusive of joint boxes, fixing clamps, fusion splices and connections to the joint boxes. One OPGW earthwire on the line.	Route km^3	65					
2.1.3	7x3.25mm earthwire. One earthwire on the line.	Route km^3	65					
3	**Insulator strings, with associated suspension and tension clamps for twin ACSR Mallard Conductor**							
3.1	**Over Land Portion**							
3.1.1	a) Single suspension string, 70 kN -disc only	Set	1362					
	b) Single suspension string, 70 kN -fittings only	Set	1362					
3.1.2	a) Single suspension string (Heavy Suspension), 120 kN -disc only	Set	126					
	a) Single suspension string (Heavy Suspension), 120 kN -fittings only	Set	126					
3.1.3	a) Single tension string, 120kN -disc only	Set	1224					
	b) Single tension string, 120kN -fittings only	Set	1224					
3.1.4	a) Single jumper suspension I-string, having each string 1x70 kN-disc only	Set	306					
	b) Single jumper suspension I-string, having each string 1x70 kN-fittings only	Set	306					
3.1.5	a) Single tension string, upright low duty 70kN- disc only	Set	12					
	b) Single tension string, upright low duty 70kN- fittings only	Set	12					
3.1.6	a) Single tension string, inverted low duty 70kN -discs only	Set	12					
	b) Single tension string, inverted low duty 70kN -fittings only	Set	12					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2C Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
3.1.7	Counterweights for 120kN suspension insulator sets complete with yoke plate attachment bolts to be used for 1D1 towers:							
(a)	- 40kg set	each	3					
(b)	- 80kg set	each	3					
(c)	- 120kg set	each	5					
4	**Earthwire sets, complete with all accessories**							
4.1	**Over Land Portion**							
4.1.1	Suspension set	set	247					
4.1.2	Tension set	set	204					
5	**OPGW sets, complete with all accessories, incl. armour rods and earth bounds**							
5.1	**Over Land Portion**							
5.1.1	Suspension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)	set	247					
5.1.2	Tension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)	set	204					
6	**Dampers**							
6.1	**Over Land Portion**							
6.1.1	Vibration damper for phase conductor	per span	349					
6.1.2	Vibration damper for earthwire	per span	349					
6.1.3	Vibration damper for OPGW	per span	349					
6.1.4	Spacer for jumper	nos.	291					
7	**Aerial Markers**							
7.1	Painting of tower having height more than 60 meter in accordance with the requirements of the Technical Specification	per tower	5					
7.2	Painting of tower (Reflecting Paint) upto 3 meter in submerge area in accordance with the requirements of the Technical Specification	per tower	5					
7.3	Air craft obstruction lights solar powered complete with lamps, solar, panels, batteries, control equipment cables, support framework, tower work platform etc.	each	12					
7.4	Aircraft warning spheres	each	12					
7.5	Bird diverters	each	15					
7.6	Bird guards, one bird guard per each crossarm applied on intermediate towers	each	1416					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2C Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
8	**Mandatory Spare Parts and Tools**							
8.1	**Insulator and Fittings**							
	Insulator sets complete with insulators and all hardware fittings including suspension clamps, tension dead ends,armour rods, arcing horn. Arcing ring etc							
8.1.1	70 kN single suspension Insulators set for "ACSR Grosbeak" - Complete Assembly	set	5					
8.1.2	70 kN jumper suspension set for "ACSR Grosbeak" - Complete Assembly	set	10					
8.1.3	120 kN Single tension set for "ACSR Grosbeak" - Complete Assembly	set	20					
8.2	**Phase conductor, earthwire, OPGW & Fittings**							
8.2.1	Phase conductor "ACSR Grosbeak" conductor	km	7					
8.2.2	Midspan Joint for "ACSR Grosbeak " conductor	each	5					
8.2.3	Repair sleeve for "ACSR Grosbeak" conductor	each	5					
8.2.4	Jumper Spacer for "ACSR Grosbeak"	each	7					
8.2.5	Earthwire 7x3.25mm	km	7					
8.2.6	Midspan Joint for 7x3.25mm earthwire	each	3					
8.2.7	Suspension set for 7x3.25mm earthwire	each	10					
8.2.8	Tension set for 7x3.25mm earthwire	each	10					
8.2.9	Vibration damper for 7x3.25mm earthwire	each	15					
8.2.10	7x3.25mm Equivalent OPGW	km	10					
8.2.11	Suspension set for 7x3.25mm Equivalent OPGW	each	12					
8.2.12	Tension set for 7x3.25mm Equivalent OPGW	each	12					
8.2.13	Vibration damper for 7x3.25mm Equivalent OPGW	each	15					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2C Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
8.3	Temporary earthing equipment	each	1					
8.4	Motorised jointing compressor for conductor complete with dies suitable for conductors & earthwires to be used for this Contract	each	2					
Total Columns 8 to be carried forward to Schedule No. 5 - Grand Summary								

Name of Bidder

Signature of Bidder

1 Specify currencies in accordance with ITB 19.1 of the BDS. Create additional columns for up to a maximum of three foreign currencies, if so required.

2 Bidders shall enter a code representing the country of origin of all imported plant and equipment.

3 Definition of route km: Route km is the transmission line distance between two terminal points in plan view. Route km is exclusive sag and other electrical clearances, elevation differences etc. The Contractor shall incorporate all such extra costs in his unit rate.

Country of Origin Declaration Form

Item	Description	Country

Design, Supply, Installation, Testing & Commissioning of 230 kV and 132 kV Transmission Lines for Southern Area of Chattogram Division & Bangabandhu Hi-Tech City at Kaliakoir on Turnkey Basis (Contract No. PGCB/AIIB/000308-BGD/TL/Package-2)								
D. 132 kV Line-In-Line-Out (LILO) at Cox's Bazar (North) substation from Dohazari - Cox's Bazar 132 kV double circuit transmission line: 1.55 km (using Single ACSR Grosbeak equivalent ACCC conductor)								
Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2D Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
1.Supply of 132 kV double circuit towers, complete with all stubs, nuts, bolts, locking nuts, washers, phase conductors and earthwire, swivels/shackles, step bolts, tower notice and identification plates, ACDs, protective coating, earthing, etc.								
1	Supply of 132 kV Double circuit towers, complete with all stubs, nuts, bolts, locking nuts, washers, phase conductors and earthwire, swivels/shackles, step bolts, tower notice and identification plates, ACDs, protective coating, earthing, etc.							
1.1	Tower Type 1DT6							
1.1.1	Tower Type 1DT6+6.0 m	each	1					
1.1.2	Tower Type 1DT6+9.0 m	each	1					
2	Supply of 132 kV Four circuit towers, complete with all stubs, nuts, bolts, locking nuts, washers, phase conductors and earthwire, swivels/shackles, step bolts, tower notice and identification plates, ACDs, protective coating, earthing, etc.							
2.1	Tower Type 1QL							
2.1.1	Tower Type 1QL+9.0 m	each	1					
2.2	Tower Type 1Q15							
2.2.1	Tower type 1Q15 +15.0 m	each	1					
2.3	Tower Type 1Q30							
2.3.1	Tower type 1Q30 +9.0 m	each	2					
2.4	Tower Type 1QT6							
2.4.1	Tower Type 1QT6+9.0 m	each	3					
3	Auxiliary Crossarm for tower							
3.1	Auxiliary Crossarm for Tower Type 1QT6	per set of three	4					
4	Phase conductor, earthwire and OPGW cable, complete with repair sleeves and joints							
4.1	"ACSR Grosbeak equivalent ACCC" (four circuit line, all circuits erected, one conductors per phase) [3]	Route km[3]	1.55					
4.2	Two optical fibre ground wire, 24 fibres 7×3.25 steel earthwire equivalent OPGW, including joint box	Route km[3]	1.55					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2D Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
5	**Insulator strings, with associated suspension and tension clamps for single "ACSR Grosbeak equivalent ACCC " Conductor**							
5.1	a) 70kN suspension Insulators set for single "ACSR Grosbeak equivalent ACCC" Conductor (Suspension) - disc only	Set	12					
	b) 70kN suspension Insulators set for single "ACSR Grosbeak equivalent ACCC" Conductor (Suspension) - hardware fittings only	Set	12					
5.2	a) 120kN tension Insulators Set for single "ACSR Grosbeak equivalent ACCC" Conductor - disc only	Set	156					
	b) 120kN tension Insulators Set for single "ACSR Grosbeak equivalent ACCC" Conductor - hardware fittings only	Set	156					
5.3	a) 70kN jumper suspension Insulators Set forsingle "ACSR Grosbeak equivalent ACCC" Conductor - disc only	Set	66					
	b) 70kN jumper suspension Insulators Set forsingle "ACSR Grosbeak equivalent ACCC" Conductor - hardware fittings only	Set	66					
5.4	a) 70kN single upright low duty Insulators Set for single "ACSR Grosbeak equivalent ACCC" Conductor - disc only	Set	12					
	b) 70kN single upright low duty Insulators Set for single "ACSR Grosbeak equivalent ACCC" Conductor - hardware fittings only	Set	12					
5.5	a) 70kN single inverted low duty Insulators Set for single "ACSR Grosbeak equivalent ACCC" Conductor - disc only	Set	12					
	b) 70kN single inverted low duty Insulators Fittings Set for single "ACSR Grosbeak equivalent ACCC" Conductor - hardware fittings only	Set	12					
6	**OPGW sets, complete with all accessories, incl. armour rods and earth bounds**							
6.1	Suspension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)	set	2					
6.2	Tension set (including all fittings and accessories for surplus and to guide the OPGW to the joint box)	set	28					
7	**Dampers**							
7.1	Vibration damper for phase conductor	per span	5					
7.2	Vibration damper for OPGW	per span	5					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2D Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
8	**Aerial Markers**							
8.1	Air craft obstruction lights solar powered complete with lamps, solar, panels, batteries, control equipment cables, support framework, tower work platform etc.	Per tower	1					
8.2	Bird diverters	pcs.	3					
8.3	Bird guards, one bird guard per each crossarm applied on intermediate towers	pcs.	12					
8.4	Aircraft warning spheres	pcs.	1					
8.5	Painting of 60 meter and over tower in accordance with the requirements of the Technical Specification	per tower	1					
8.6	Painting of tower (Reflecting Paint) upto 3 meter in submerge area in accordance with the requirements of the Technical Specification	per tower	NIL					
9	**Mandatory Spare Parts and Tools**							
9.1	Conductor "ACSR Grosbeak equivalent ACCC" type	km	2					
9.2	Optical fibre ground wire, 24 fibres 7×3.25 steel earthwire equivalent OPGW	km	1					
9.3	a) 70kN suspension Insulators set for single "ACSR Grosbeak equivalent ACCC" Conductor (Suspension) - disc only	set	5					
	b) 70kN suspension Insulators set for single "ACSR Grosbeak equivalent ACCC" Conductor (Suspension) - hardware fittings only	set	5					
9.4	a) 120kN tension Insulators Set for single "ACSR Grosbeak equivalent ACCC" Conductor - disc only	set	6					
	b) 120kN tension Insulators Set for single "ACSR Grosbeak equivalent ACCC" Conductor - hardware fittings only	set	6					
9.5	OPGW 24 fibres suspension set	set	2					
9.6	OPGW 24 fibres tension set	set	2					
9.7	OPGW junction box	set	8					
9.8	Vibration damper for phase conductor single "ACSR Grosbeakequivalent ACCC" Conductor	each	6					
9.9	Vibration damper for OPGW	each	3					
9.10	Repair sleeve for conductor - single "ACSR Grosbeak equivalent ACCC" Conductor	pcs	3					

Item	Description	Unit	Quantity	Local Currency in BDT		Foreign Currency in (xxx)		Sales and Other Taxes
				Unit EXW Price1	Total EXW Price	Unit EXW Price1	Total EXW Price	Local Currency [BDT]
1	2	3	4	5	6=4*5	7	8=4*7	9
Schedule No. 2D Plant and Mandatory Spare Parts Supplied From Within Employer's Country								
9.11	Midspan joints for conductor single "ACSR Grosbeak equivalent ACCC Conductor" Conductor	pcs	3					
9.12	Bird diverters	pcs	2					
9.13	Bird guard	pcs	4					
9.14	Terminal ground resistance tester (tools)	pcs	1					
9.15	**Temporary earthing equipment**	each	1					
9.16	**Motorised jointing compressor for conductor complete with dies suitable for conductors & earthwires to be used for this Contract**	each	1					
Total Columns 8 to be carried forward to Schedule No. 5 - Grand Summary								

Name of Bidder

Signature of Bidder

1 Specify currencies in accordance with ITB 19.1 of the BDS. Create additional columns for up to a maximum of three foreign currencies, if so required.

2 Bidders shall enter a code representing the country of origin of all imported plant and equipment.

3 Definition of route km: Route km is the transmission line distance between two terminal points in plan view. Route km is exclusive sag and other electrical clearances, elevation differences etc. The Contractor shall incorporate all such

Country of Origin Declaration Form

Item	Description	Country

Design, Supply, Installation, Testing & Commissioning of 230 kV and 132 kV Transmission Lines for Southern Area of Chattogram Division & Bangabandhu Hi-Tech City at Kaliakoir on Turnkey Basis (PGCB/AIIB/000308-BGD/TL/Package-2)

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 3 Design Services (Scope-A, B, C & D)							
1	**Line Design**						
1.1	Detailed line design including plan and profiles; conductor, earthwire and OPGW sag tension calculations; tower spotting, establishment of line schedule; Design of insulator strings, OPGW and earthwire attachments	Lump sum	1				
2	**Tower/Pole Test**						
2.1	**Proto assembly of all type towers with all extensions to prove compliance with specification. Payment for successful test only.**						
2.1.1	4D1	Lot	1				
2.1.2	2DL	Lot	1				
2.1.3	2D1	Lot	1				
2.1.4	2D25	Lot	1				
2.1.5	2DT6	Lot	1				
2.1.6	2D9	Lot	1				
2.1.7	2DR	Lot	1				
2.1.8	2DAX	Lot	1				
2.1.9	2QL	Lot	1				
2.1.10	2Q1	Lot	1				
2.1.11	2Q15	Lot	1				
2.1.12	2Q30	Lot	1				
2.1.13	2QT6	Lot	1				
2.1.14	1DL	Lot	1				
2.1.15	1D1	Lot	1				
2.1.16	1D25	Lot	1				
2.1.17	1DT6	Lot	1				

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 3 Design Services (Scope-A, B, C & D)							
2.1.18	1QL	Lot	1				
2.1.19	1Q15	Lot	1				
2.1.20	1Q30	Lot	1				
2.1.21	1QT6	Lot	1				
2.2	**Proto assembly of all type poles with all extensions to prove compliance with specification. Payment for successful test only.**						
2.2.1	1DLP						
2.2.2	1D1P	Lot	1				
2.2.3	1D25P	Lot	1				
2.2.4	1DT6P	Lot	1				
2.2.5	1D9P	Lot	1				
3	**Foundation Design**	Lot	1				
3.1	Foundation design for all soil types including additional soil investigation and additional soil resistivity measurement	Lump sum	1				
Total Columns 7 & 8 to be carried forward to Schedule No. 5 - Grand Summary							
4	Total Tax and VAT deductable at source(TDS & VDS) under the schedule 3(to be quoted in the currency similar as above)[2]						

Name of Bidder _____

Signature of Bidder _____

1. Specify currencies in accordance with ITB 19.1 of the BDS. Create additional columns for up to a maximum of three foreign currencies, if so required.
2. Bidder shall quote the amount considering clause 14.1 of section 8(Special Conditions of Contract), Volume 1 of 3 of the bidding document. The amount quoted by bidder is subject to arithmatic correction by Employer as required.

Design, Supply, Installation, Testing & Commissioning of 230 kV and 132 kV Transmission Lines for Southern Area of Chattogram Division & Bangabandhu Hi-Tech City at Kaliakoir on Turnkey Basis (Contract No. PGCB/AIIB/000308-BGD/TL/Package-2)

A. Anwara-Cox's Bazar (North) 230 kV double circuit transmission line (Initially charged at 132 kV): 109 km with 0.49 km river crossing portion (using twin ACSR mallard Conductor)

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
	Schedule No. 4A Installation and Other Services						
1	**Survey and soil investigation works**						
1.1	**Survey Work**						
1.1.1	Check survey in accordance with the requirements of the technical specification, incl. Full ground survey with change of route, if any, tower plotting and preparation and submission of route maps, profile drawings, SIMM documents, etc.	Route km	109.49				
1.2	**Geotechnical Investigations incl. taking samples, logging and lab testing**						
1.2.1	Boreholes for geotechnical investigation, incl. laboratory test, borehole logs, sampling and interpretive report as per geotechnical specification						
(a)	Level 2	borehole	1				
(b)	Level 4	borehole	1				
1.2.2	Soil resistivity tests	per tower	340				
2	**Foundations for towers/Poles including all setting out, Concrete, Reinforcement, Excavation, Pumping, Stub-Setting, Geotechnical Investigation (Level 2/Level 4), Shuttering, Leveling, Timbering, supply & Installation of foundation steelwork, Earthing Materials,Backfilling, approved Protective Coating & site clearing etc.**						
2.1	**Tower type "4D1-Q" (Any extension)**						
2.1.1	Pile Foundation for any Soil Category	per tower	2				
2.1.2	Piled Foundation with 1.0/2.0/3.0m raised chimney for any Soil Category	per tower	2				
2.2	**Tower type "2DL"**						
2.2.1	Pile Foundation for Soil Category-2	per tower	17				
2.2.2	Pile Foundation for Soil Category-3	per tower	17				
2.2.3	Pile Foundation for Soil Category-4	per tower	14				
2.2.4	Piled Foundation with 1.0m raised chimney for Soil Category-2	per tower	7				
2.2.5	Piled Foundation with 1.0m raised chimney for Soil Category-3	per tower	8				
2.2.6	Piled Foundation with 1.0m raised chimney for Soil Category-4	per tower	7				
2.2.7	Piled Foundation with 2.0m raised chimney for Soil Category-2	per tower	7				
2.2.8	Piled Foundation with 2.0m raised chimney for Soil Category-3	per tower	8				
2.2.9	Piled Foundation with 2.0m raised chimney for Soil Category-4	per tower	7				
2.2.10	Piled Foundation with 3.0m raised chimney for Soil Category-2	per tower	30				
2.2.11	Piled Foundation with 3.0m raised chimney for Soil Category-3	per tower	30				
2.2.12	Piled Foundation with 3.0m raised chimney for Soil Category-4	per tower	26				

Item	Description	Unit	Quantity	Unit Price1		Total Price1	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4A Installation and Other Services							
2.3	**Tower type "2D1" (Any extension)**						
2.3.1	Pile Foundation for Soil Category-2	per tower	5				
2.3.2	Pile Foundation for Soil Category-3	per tower	5				
2.3.3	Pile Foundation for Soil Category-4	per tower	4				
2.3.4	Piled Foundation with 1.0m raised chimney for any Soil Category	per tower	4				
2.3.5	Piled Foundation with 2.0m raised chimney for any Soil Category	per tower	4				
2.3.6	Piled Foundation with 3.0m raised chimney for any Soil Category	per tower	4				
2.4	**Tower type "2D25"**						
2.4.1	Pile Foundation for Soil Category-2	per tower	9				
2.4.2	Pile Foundation for Soil Category-3	per tower	9				
2.4.3	Pile Foundation for Soil Category-4	per tower	6				
2.4.4	Piled Foundation with 1.0m raised chimney for any Soil Category	per tower	4				
2.4.5	Piled Foundation with 2.0m raised chimney for any Soil Category	per tower	4				
2.4.6	Piled Foundation with 3.0m raised chimney for any Soil Category	per tower	6				
2.5	**Tower type "2DT6"**						
2.5.1	Pile Foundation for Soil Category-2	per tower	14				
2.5.2	Pile Foundation for Soil Category-3	per tower	14				
2.5.3	Pile Foundation for Soil Category-4	per tower	11				
2.5.4	Piled Foundation with 1.0m raised chimney for Soil Category-2	per tower	3				
2.5.5	Piled Foundation with 1.0m raised chimney for Soil Category-3	per tower	3				
2.5.6	Piled Foundation with 1.0m raised chimney for Soil Category-4	per tower	3				
2.5.7	Piled Foundation with 2.0m raised chimney for Soil Category-2	per tower	3				
2.5.8	Piled Foundation with 2.0m raised chimney for Soil Category-3	per tower	3				
2.5.9	Piled Foundation with 2.0m raised chimney for Soil Category-4	per tower	3				
2.5.6	Piled Foundation with 3.0m raised chimney for any Soil Category	per tower	3				
2.6	**Tower type "2D9"**						
2.6.1	Pile Foundation for Soil Category-2	per tower	1				
2.6.2	Pile Foundation for Soil Category-3	per tower	1				
2.6.3	Pile Foundation for Soil Category-4	per tower	1				
2.6.4	Piled Foundation with 1.0m raised chimney for any Soil Category	per tower	1				
2.6.5	Piled Foundation with 2.0m/3.0m raised chimney for any Soil Category	per tower	1				
2.7	**Tower type "2QL"**						
2.7.1	Piled Foundation with 3.0m raised chimney for any Soil Category	per tower	3				

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4A Installation and Other Services							
2.8	**Tower type "2Q1"**						
2.8.1	Pile Foundation for any Soil Category	per tower	1				
2.8.2	Piled Foundation with 1.0m raised chimney for any Soil Category	per tower	1				
2.8.3	Piled Foundation with 2.0m raised chimney for any Soil Category	per tower	1				
2.9	**Tower type "2Q15"**						
2.9.1	Pile Foundation for any Soil Category	per tower	1				
2.9.2	Piled Foundation with 1.0m raised chimney for any Soil Category	per tower	1				
2.9.3	Piled Foundation with 2.0m raised chimney for any Soil Category	per tower	1				
2.10	**Tower type "2Q30"**						
2.10.1	Pile Foundation for any Soil Category	per tower	1				
2.10.2	Piled Foundation with 1.0m raised chimney for any Soil Category	per tower	1				
2.10.3	Piled Foundation with 2.0m raised chimney for any Soil Category	per tower	1				
2.11	**Tower type "2QT6"**						
2.11.1	Pile Foundation for any Soil Category	per tower	1				
2.11.2	Piled Foundation with 3.0m raised chimney for any Soil Category	per tower	2				
2.12	**Tower type 2T**						
2.12.1	Pile Foundation for for any Soil Category	per tower	1				
2.12.2	Pile Foundation with 1.0/2.0/3.0m raised chimney for any Soil Category	per tower	1				
2.13	**Tower type 2DR (River Crossing Foundation)**						
2.13.1	Pile Foundation for Tower type 2DR Standard	per tower	1				
2.13.2	Pile Foundation for Tower type 2DR M20	per tower	1				
2.14	**Tower type 2DR (Non-River Crossing Foundation)**						
2.14.1	Pile Foundation for Tower type 2DR Standard	per tower	1				
2.15	**Tower type 2DAX (River Crossing Foundation)**						
2.15.1	Pile Foundation for Tower type 2DAX Standard	per tower	2				
2.16	**Tower type 2DAX (Non-River Crossing Foundation)**						
2.16.1	Pile Foundation for Tower type 2DAX Standard	per tower	1				
2.17	**River Crossing Foundation for Normal (Non-River Crossing) Tower**						
2.17.1	Pile foundation for tower type "2DT6"	Per tower	2				
2.17.2	Pile foundation for tower type "2D1" (Any extension)	Per tower	2				
2.17.3	Pile foundation for tower type "4D1" (Any extension)	Per tower	2				

Item	Description	Unit	Quantity	Unit Price1		Total Price1	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4A Installation and Other Services							
3	**Erection of 230kV and 400kV double circuit Towers/Poles complete with all stubs, nuts, bolts, locking nuts, washers, phase conductor and earthwire swivels/shackles, step bolts, tower notice and identification plates, ACDs, ptotective coating, earthing etc.**						
3.1	**Tower type "4D1-Q"**						
3.1.1	Tower type 4D1-Q+30 m	each	3				
3.1.2	Tower type 4D1-Q+40 m	each	3				
3.2	**Tower type "2DL"**						
3.2.1	Tower type 2DL Standard	each	10				
3.2.2	Tower type 2DL+1.5 m	each	10				
3.2.3	Tower type 2DL+3 m	each	18				
3.2.4	Tower type 2DL+4.5 m	each	28				
3.2.5	Tower type 2DL+6 m	each	33				
3.2.6	Tower type 2DL+9 m	each	43				
3.2.7	Tower type 2DL+12 m	each	36				
3.3	**Tower type "2D1"**						
3.3.1	Tower type 2D1 Standard	each	2				
3.3.2	Tower type 2D1 +1.5 m	each	2				
3.3.3	Tower type 2D1 +3 m	each	2				
3.3.4	Tower type 2D1 +4.5 m	each	2				
3.3.5	Tower type 2D1 +6 m	each	2				
3.3.6	Tower type 2D1 +9 m	each	3				
3.3.7	Tower type 2D1 +12 m	each	4				
3.3.8	Tower type 2D1 +15 m	each	4				
3.3.9	Tower type 2D1 +18 m	each	3				
3.3.10	Tower type 2D1 +21 m	each	2				
3.3.11	Tower type 2D1 +25 m	each	2				
3.4	**Tower type "2D25"**						
3.4.1	Tower type 2D25 Standard	each	5				
3.4.2	Tower type 2D25 +1.5 m	each	2				
3.4.3	Tower type 2D25+3 m	each	4				
3.4.4	Tower type 2D25 +4.5 m	each	2				
3.4.5	Tower type 2D25 +6 m	each	5				
3.4.6	Tower type 2D25 +9 m	each	11				
3.4.7	Tower type 2D25 +12 m	each	5				
3.4.8	Tower type 2D25 +15 m	each	4				

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4A Installation and Other Services							
3.5	**Tower type "2DT6"**						
3.5.1	Tower type 2DT6 Standard	each	6				
3.5.2	Tower type 2DT6+1.5 m	each	3				
3.5.3	Tower type 2DT6+3 m	each	8				
3.5.4	Tower type 2DT6+4.5 m	each	3				
3.5.5	Tower type 2DT6+6 m	each	12				
3.5.6	Tower type 2DT6+9 m	each	14				
3.5.7	Tower type 2DT6+12 m	each	8				
3.5.8	Tower type 2DT6+15 m	each	8				
3.6	**Tower type "2D9"**						
3.6.1	Tower type 2D9 Standard	each	1				
3.6.2	Tower type 2D9+1.5 m	each	NIL				
3.6.3	Tower type 2D9+3 m	each	NIL				
3.6.4	Tower type 2D9+4.5 m	each	1				
3.6.5	Tower type 2D9+6 m	each	NIL				
3.6.6	Tower type 2D9+9 m	each	1				
3.6.7	Tower type 2D9+12 m	each	1				
3.6.8	Tower type 2D9+15 m	each	1				
3.7	**Tower type "2QL"**						
3.7.1	Tower type 2QL Standard	each	1				
3.7.2	Tower type 2QL+1.5 m	each	NIL				
3.7.3	Tower type 2QL+3 m	each	NIL				
3.7.4	Tower type 2QL+4.5 m	each	NIL				
3.7.5	Tower type 2QL+6 m	each	1				
3.7.6	Tower type 2QL+9 m	each	1				
3.8	**Tower type "2Q1"**						
3.8.1	Tower type 2Q1 Standard	each	1				
3.8.2	Tower type 2Q1 +1.5 m	each	NIL				
3.8.3	Tower type 2Q1 +3 m	each	NIL				
3.8.4	Tower type 2Q1 +6 m	each	1				
3.8.5	Tower type 2Q1 +9 m	each	1				
3.8.6	Tower type 2Q1 +12 m	each	NIL				
3.8.7	Tower type 2Q1 +15 m	each	NIL				
3.8.8	Tower type 2Q1 +18 m	each	NIL				
3.8.9	Tower type 2Q1 +21 m	each	NIL				
3.8.10	Tower type 2Q1 +25 m	each	NIL				

Item	Description	Unit	Quantity	Unit Price1		Total Price1	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4A Installation and Other Services							
3.9	**Tower type "2Q15"**						
3.9.1	Tower type 2Q15 Standard	each	1				
3.9.2	Tower type 2Q15 +1.5 m	each	NIL				
3.9.3	Tower type 2Q15 +3 m	each	NIL				
3.9.4	Tower type 2Q15 +6 m	each	1				
3.9.5	Tower type 2Q15 +9 m	each	1				
3.10	**Tower type "2Q30"**						
3.10.1	Tower type 2Q30 Standard	each	1				
3.10.2	Tower type 2Q30+1.5 m	each	NIL				
3.10.3	Tower type 2Q30+3 m	each	NIL				
3.10.4	Tower type 2Q30+4.5 m	each	NIL				
3.10.5	Tower type 2Q30+6 m	each	1				
3.10.6	Tower type 2Q30+9 m	each	1				
3.11	**Tower type "2QT6"**						
3.11.1	Tower type 2QT6 Standard	each	1				
3.11.2	Tower type 2QT6+1.5 m	each	NIL				
3.11.3	Tower type 2QT6+3 m	each	NIL				
3.11.4	Tower type 2QT6+4.5 m	each	NIL				
3.11.5	Tower type 2QT6+ 6 m	each	1				
3.11.6	Tower type 2QT6+ 9 m	each	1				
3.12	**Tower type "2T"**						
3.12.1	Tower type 2T Standard	each	1				
3.12.2	Tower type 2T+3 m	each	1				
3.13	**Tower type 2DR**						
3.13.1	Tower type 2DR Standard	each	2				
3.13.2	Tower type 2DR M20	each	1				
3.14	**Tower type 2DAX**						
3.14.1	Tower type 2DAX Standard	per tower	3				
3.15	Cross-arm Erection	per set of three	7				
3.16	**Galvanized Tower Steel Works**						
3.16.1	Fabricated	per ton	5				

Item	Description	Unit	Quantity	Unit Price1		Total Price1	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4A Installation and Other Services							
4	**Testing of Foundations**						
	Overland Portion						
4.1	**Individual Pile test including supply,install and test to prove compliance with technical specification, payment for successful test only (applicable for all tower types selected by the Employer's Engineer):**						
(a)	Compression test	per test	5				
(b)	Uplift test	per test	5				
(c)	Pile Integrity test	per test	1336				
	River Crossing Foundation Portion						
4.2	**Individual Pile test including supply,install and test to prove compliance with technical specification, payment for successful test only (applicable for all tower types selected by the Employer's Engineer):**						
(a)	Compression test	per test	1				
(b)	Uplift test	per test	1				
(c)	Pile Integrity test	per test	24				
5	**Stringing of double/four circuit line, two conductors per phase, 2 OPGW (length approx. Route km)**						
5.1	**Overland Portion**						
5.1.1	Conductor "ACSR Mallard" Phase Conductor (3 Phase, Double Circuit, Twin Conductor per phase on the line)" Installation of insulation strings, compressed dead-ends, compression junction sleeves, suspension clamps, Sagging and clipping, Installation of armour rods and Dampers, Pilot strings and jumpers and any other works required as per specification.	route km	109				
5.1.2	7x4.00mm equivalent , 48 fibres OPGW, including joint box, Tension and semi-tension joints, suspension clamps, armour rods and dampers,Sagging and clipping, Installation of intermediate junction boxes and terminal junction boxes at substation gantries ,Earthing jumpers. Two OPGW on the line.	route km	109				
5.2	**River Crossing Portion**						
5.2.1	Conductor "ACSR Mallard" Phase Conductor (3 Phase, Double Circuit, Twin Conductor per phase on the line)" Installation of insulation strings, compressed dead-ends, compression junction sleeves, suspension clamps, Sagging and clipping, Installation of armour rods and Dampers, Pilot strings and jumpers and any other works required as per specification.	route km	0.49				
5.2.2	19x3.67 20SA equivalent , 48 fibres OPGW, including joint box, Tension and semi-tension joints, suspension clamps, armour rods and dampers,Sagging and clipping, Installation of intermediate junction boxes and terminal junction boxes at substation gantries ,Earthing jumpers. Two OPGW on the line.	route km	0.49				
6	**Documentation**						
6.1	Establishment of as-built drawings, manuals and all requested documents as per specifications	lump sum	1				

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4A Installation and Other Services							
7	**Miscellaneous**						
7.1	General and other works and services, not mentioned before	lump sum	1				
7.2	Transport of the material and equipment supplied from Employer's Country	lump sum	1				
7.3	Insurance of material and equipment supplied from Employer's Country during transport	lump sum	1				
7.4	Painting of tower having height more than 60 meter in accordance with the requirements of the Technical Specification	per tower	17				
7.5	Painting of tower (Reflecting Paint) upto 3 meter in submerge area in accordance with the requirements of the Technical Specification	per tower	5				
7.6	Erection of earthwire connection from terminal tower to substation gantry	per wire	2				
7.7	Erection of OPGW connection from terminal tower to substation Gantry/Mast	per wire	2				
7.8	Additional counterpoise earthing in accordance with requirement of the Technical specification	per meter	50				
7.9	Miscellaneous Rates for works certified by the Engineer in accordance with method of Payment						
(a)	Additional Excavation	cu.m	200				
(b)	Additional Concrete	cu.m	200				
(c)	Additional Reinforcement	kg	1200				
(d)	Extra for surface resisting cement per cu.m of concrete	cu.m	100				
(e)	Additional Boring (500mm diameter)	rm	100				
(f)	Additional Boring (600mm diameter)	rm	100				
(g)	Additional Boring (750mm diameter)	rm	100				
(h)	Sand Filling	cu.m	225				
7.10	Environmental and Social Services	lump sum	1				
7.11	STI. STD and HIV/AIDS alleviation program[2]	lump sum	1				

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4A Installation and Other Services							
7.12	Costs and Expenses related to test witness[3](Provisional Sum)	lump sum	1		$120,000.00		$ 120,000.00
7.13	Payment of compensation for using private land to construct transmission line towers [based on area of tower footprint]	lump sum	1	211,785,000.00		211,785,000.00	
7.14	Payment of compensation for lines (for affected trees, crops etc. on the Right of Way and at the substation ends)	lump sum	1	235,008,000.00		235,008,000.00	
Total Columns 7 & 8 to be carried forward to Schedule No. 5 - Grand Summary							
8	Total Tax and VAT deductable at source(TDS & VDS) under the schedule 4B(to be quoted in the currency similar as above)[4]						

Name of Bidder _____

Signature of Bidder _____

1 Specify currencies in accordance with ITB 19.1 of the BDS. Create additional columns for up to a maximum of three foreign currencies, if so required.

2 As described in SCC 22.2.7

3 These costs are fixed ceiling and will be included in total price. But the payment shall be at actual upon submission of relevant documents.

4.Bidder shall quote the amount considering clause 14.1 of section 8(Special Conditions of Contract), Volume 1 of 3 of the bidding document. The amount quoted by bidder is subject to arithmatic correction by Employer as required.

B. Bangabandhu Hi-Tech City-Kaliakoir 230 kV double circuit transmission line: 4.88 km (using Twin ACSR Mallard conductor)

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
	Schedule No. 4B Installation and Other Services						
1	**Survey and soil investigation works**						
1.1	**Survey Work**						
1.1.1	Check survey in accordance with the requirements of the technical specification, incl. Full ground survey with change of route, if any, tower plotting and preparation and submission of route maps, profile drawings, SIMM documents, etc.	Route km	4.88				
1.2	**Geotechnical Investigations incl. taking samples, logging and lab testing**						
1.2.1	Boreholes for geotechnical investigation, incl. laboratory test, borehole logs, sampling and interpretive report as per geotechnical specification						
(a)	Level 2	borehole	1				
(b)	Level 4	borehole	1				
1.2.2	Soil resistivity tests	per tower	24				
2	**Foundations for towers/Poles including all setting out, Concrete, Reinforcement, Excavation, Pumping, Stub-Setting, Geotechnical Investigation (Level 2/Level 4), Shuttering, Leveling, Timbering, supply & Installation of foundation steelwork, Earthing Materials,Backfilling, approved Protective Coating & site clearing etc.**						
2.1	**Tower type "2DL"**						
2.1.1	Pile Foundation for Soil Category-2	per tower	1				
2.1.2	Pile Foundation for Soil Category-3	per tower	1				
2.1.3	Pile Foundation for Soil Category-4	per tower	1				
2.1.4	Piled Foundation with 1.0/2.0m raised chimney for any Soil Category	per tower	1				
2.2	**Tower type "2D1" (Any extension)**						
2.2.1	Pile Foundation for any Soil Category	per tower	1				
2.2.2	Piled Foundation with 1.0m raised chimney for any Soil Category	per tower	1				
2.2.3	Piled Foundation with 2.0m raised chimney for any Soil Category	per tower	1				
2.3	**Tower type "2D25"**						
2.3.1	Pile Foundation for any Soil Category	per tower	2				
2.3.2	Piled Foundation with 1.0m raised chimney for any Soil Category	per tower	1				
2.3.3	Piled Foundation with 2.0m raised chimney for any Soil Category	per tower	1				

Item	Description	Unit	Quantity	Unit Price1		Total Price1	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4B Installation and Other Services							
2.4	**Tower type "2DT6"**						
2.4.1	Pile Foundation for any Soil Category	per tower	1				
2.4.2	Piled Foundation with 1.0m raised chimney for any Soil Category	per tower	1				
2.4.3	Piled Foundation with 2.0m raised chimney for any Soil Category	per tower	1				
2.5	**Tower type "2QL"**						
2.5.1	Pile Foundation for any Soil Category	per tower	1				
2.5.2	Piled Foundation with 1.0m/2.0m raised chimney for any Soil Category	per tower	1				
2.6	**Tower type "2Q1"**						
2.6.1	Pile Foundation for any Soil Category	per tower	1				
2.6.2	Piled Foundation with 1.0m/2.0m raised chimney for any Soil Category	per tower	1				
2.7	**Tower type "2Q15"**						
2.7.1	Pile Foundation for any Soil Category	per tower	1				
2.7.2	Piled Foundation with 1.0m/2.0m raised chimney for any Soil Category	per tower	1				
2.8	**Tower type "2Q30"**						
2.8.1	Pile Foundation for any Soil Category	per tower	1				
2.8.2	Piled Foundation with 1.0m/2.0m raised chimney for any Soil Category	per tower	1				
2.9	**Tower type "2QT6"**						
2.9.1	Pile Foundation for any Soil Category with any chimney height	per tower	1				
2.10	**River Crossing Foundation for Normal (Non-River Crossing) Tower**						
2.10.1	Pile foundation for tower type "2QT6"	Per tower	1				
3	**Erection of 230kV double circuit Towers/Poles complete with all stubs, nuts, bolts, locking nuts, washers, phase conductor and earthwire swivels/shackles, step bolts, tower notice and identification plates, ACDs, ptotective coating, earthing etc.**						
3.1	**Tower type "2DL"**						
3.1.1	Tower type 2DL Standard	each	1				
3.1.2	Tower type 2DL+1.5 m	each	NIL				
3.1.3	Tower type 2DL+3 m	each	NIL				
3.1.4	Tower type 2DL+4.5 m	each	NIL				
3.1.5	Tower type 2DL+6 m	each	1				
3.1.6	Tower type 2DL+9 m	each	1				
3.1.7	Tower type 2DL+12 m	each	1				
3.2	**Tower type "2D1"**						
3.2.1	Tower type 2D1 Standard	each	1				

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4B Installation and Other Services							
3.2.2	Tower type 2D1 +1.5 m	each	NIL				
3.2.3	Tower type 2D1 +3 m	each	NIL				
3.2.4	Tower type 2D1 +4.5 m	each	NIL				
3.2.5	Tower type 2D1 +6 m	each	NIL				
3.2.6	Tower type 2D1 +9 m	each	1				
3.2.7	Tower type 2D1 +12 m	each	NIL				
3.2.8	Tower type 2D1 +15 m	each	NIL				
3.2.9	Tower type 2D1 +18 m	each	NIL				
3.2.10	Tower type 2D1 +21 m	each	1				
3.3	**Tower type "2D25"**						
3.3.1	Tower type 2D25 Standard	each	1				
3.3.2	Tower type 2D25 +1.5 m	each	NIL				
3.3.3	Tower type 2D25+3 m	each	1				
3.3.4	Tower type 2D25 +4.5 m	each	NIL				
3.3.5	Tower type 2D25 +6 m	each	NIL				
3.3.6	Tower type 2D25 +9 m	each	1				
3.3.7	Tower type 2D25 +12 m	each	NIL				
3.3.8	Tower type 2D25 +15 m	each	1				
3.4	**Tower type "2DT6"**						
3.4.1	Tower type 2DT6 Standard	each	1				
3.4.2	Tower type 2DT6+1.5 m	each	NIL				
3.4.3	Tower type 2DT6+3 m	each	NIL				
3.4.4	Tower type 2DT6+4.5 m	each	NIL				
3.4.5	Tower type 2DT6+6 m	each	1				
3.4.6	Tower type 2DT6+9 m	each	1				
3.4.7	Tower type 2DT6+12 m	each	NIL				
3.4.8	Tower type 2DT6+15 m	each	NIL				

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4B Installation and Other Services							
3.5	**Tower type "2QL"**						
3.5.1	Tower type 2QL Standard	each	NIL				
3.5.2	Tower type 2QL+1.5 m	each	NIL				
3.5.3	Tower type 2QL+3 m	each	NIL				
3.5.4	Tower type 2QL+4.5 m	each	NIL				
3.5.5	Tower type 2QL+6 m	each	1				
3.5.6	Tower type 2QL+9 m	each	1				
3.6	**Tower type "2Q1"**						
3.6.1	Tower type 2Q1 Standard	each	NIL				
3.6.2	Tower type 2Q1 +1.5 m	each	NIL				
3.6.3	Tower type 2Q1 +3 m	each	NIL				
3.6.4	Tower type 2Q1 +6 m	each	1				
3.6.5	Tower type 2Q1 +9 m	each	1				
3.6.6	Tower type 2Q1 +12 m	each	NIL				
3.6.7	Tower type 2Q1 +15 m	each	NIL				
3.6.8	Tower type 2Q1 +18 m	each	NIL				
3.6.9	Tower type 2Q1 +21 m	each	NIL				
3.6.10	Tower type 2Q1 +25 m	each	NIL				
3.7	**Tower type "2Q15"**						
3.7.1	Tower type 2Q15 Standard	each	NIL				
3.7.2	Tower type 2Q15 +1.5 m	each	NIL				
3.7.3	Tower type 2Q15 +3 m	each	NIL				
3.7.4	Tower type 2Q15 +6 m	each	1				
3.7.5	Tower type 2Q15 +9 m	each	1				
3.8	**Tower type "2Q30"**						
3.8.1	Tower type 2Q30 Standard	each	NIL				
3.8.2	Tower type 2Q30+1.5 m	each	NIL				
3.8.3	Tower type 2Q30+3 m	each	NIL				
3.8.4	Tower type 2Q30+4.5 m	each	NIL				
3.8.5	Tower type 2Q30+6 m	each	1				
3.8.6	Tower type 2Q30+9 m	each	1				

Item	Description	Unit	Quantity	Unit Price1		Total Price1	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4B Installation and Other Services							
3.9	**Tower type "2QT6"**						
3.9.1	Tower type 2QT6 Standard	each	NIL				
3.9.2	Tower type 2QT6+1.5 m	each	NIL				
3.9.3	Tower type 2QT6+3 m	each	NIL				
3.9.4	Tower type 2QT6+4.5 m	each	NIL				
3.9.5	Tower type 2QT6+ 6 m	each	1				
3.9.6	Tower type 2QT6+ 9 m	each	1				
3.10	Cross-arm Erection	per set of three	7				
3.11	**Galvanized Tower Steel Works**						
3.11.1	Fabricated	per ton	5				
4	**Testing of Foundations**						
	Overland Portion						
4.1	**Individual Pile test including supply,install and test to prove compliance with technical specification, payment for successful test only (applicable for all tower types selected by the Employer's Engineer):**						
(a)	Compression test	per test	1				
(b)	Uplift test	per test	1				
(c)	Pile Integrity test	per test	96				
5	**Stringing of double/four circuit line, two conductors per phase, 1 OPGW and 1 conventional earthwire (length approx. Route km)**						
5.1	**Overland Portion**						
5.1.1	Conductor "ACSR Mallard" Phase Conductor (3 Phase, Double Circuit, Twin Conductor per phase on the line)" Installation of insulation strings, compressed dead-ends, compression junction sleeves, suspension clamps, Sagging and clipping, Installation of armour rods and Dampers, Pilot strings and jumpers and any other works required as per specification.	route km	4.88				
5.1.2	7x4.00mm equivalent , 48 fibres OPGW, including joint box, Tension and semi-tension joints, suspension clamps, armour rods and dampers,Sagging and clipping, Installation of intermediate junction boxes and terminal junction boxes at substation gantries ,Earthing jumpers. One OPGW earthwire on the line.	route km	4.88				

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4B Installation and Other Services							
5.1.3	One 7x4.00mm earthwire including Compressed dead-ends, compression junction sleeves suspension clamps, armour rods and dampers,Sagging and clipping, Earthing jumpers, warning sphere(**if required**)	route km	4.88				
6	**Documentation**						
6.1	Establishment of as-built drawings, manuals and all requested documents as per specifications	lump sum	1				
7	**Miscellaneous**						
7.1	General and other works and services, not mentioned before	lump sum	1				
7.2	Transport of the material and equipment supplied from Employer's Country	lump sum	1				
7.3	Insurance of material and equipment supplied from Employer's Country during transport	lump sum	1				
7.4	Painting of tower having height more than 60 meter in accordance with the requirements of the Technical Specification	per tower	5				
7.5	Painting of tower (Reflecting Paint) upto 3 meter in submerge area in accordance with the requirements of the Technical Specification	per tower	5				
7.6	Erection of earthwire connection from terminal tower to substation gantry	per wire	2				
7.7	Erection of OPGW connection from terminal tower to substation Gantry/Mast	per wire	2				
7.8	Additional counterpoise earthing in accordance with requirement of the Technical specification	per meter	50				
7.9	Miscellaneous Rates for works certified by the Engineer in accordance with method of Payment						
(a)	Additional Excavation	cu.m	200				
(b)	Additional Concrete	cu.m	200				
(c)	Additional Reinforcement	kg	1200				
(d)	Extra for surface resisting cement per cu.m of concrete	cu.m	100				
(e)	Additional Boring (500mm diameter)	rm	100				
(f)	Additional Boring (600mm diameter)	rm	100				
(g)	Additional Boring (750mm diameter)	rm	100				
(h)	Sand Filling	cu.m	225				
7.10	Environmental and Social Services	lump sum	1				
7.11	STI. STD and HIV/AIDS alleviation program[2]	lump sum	1				

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4B Installation and Other Services							
7.12	Costs and Expenses related to test witness[3](Provisional Sum)	lump sum	1				
7.13	Payment of compensation for using private land to construct transmission line towers [based on area of tower footprint]	lump sum	1	80,028,000		80,028,000.00	
7.14	Payment of compensation for lines (for affected trees, crops etc. on the Right of Way and at the substation ends)	lump sum	1	3,752,000.00		3,752,000.00	
Total Columns 7 & 8 to be carried forward to Schedule No. 5 - Grand Summary							
8	Total Tax and VAT deductable at source(TDS & VDS) under the schedule 4B(to be quoted in the currency similar as above)[4]						

Name of Bidder _____

Signature of Bidder _____

1 Specify currencies in accordance with ITB 19.1 of the BDS. Create additional columns for up to a maximum of three foreign currencies, if so required.

2 As described in SCC 22.2.7

3 These costs are fixed ceiling and will be included in total price. But the payment shall be at actual upon submission of relevant documents.

4.Bidder shall quote the amount considering clause 14.1 of section 8(Special Conditions of Contract), Volume 1 of 3 of the bidding document. The amount quoted by bidder is subject to arithmatic correction by Employer as required.

C. Cox's Bazar (North)-Teknaf 132 kV double circuit transmission line: 65 km (using Single ACSR Grosbeak Conductor)

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4C Installation and Other Services							
1	**Survey and soil investigation works**						
1.1	**Survey Work**						
1.1.1	Check survey in accordance with the requirements of the technical specification, incl. Full ground survey with change of route, if any, tower plotting and preparation and submission of route maps, profile drawings, SIMM documents, etc.	Route km	65				
1.2	**Geotechnical Investigations incl. taking samples, logging and lab testing**						
1.2.1	Boreholes for geotechnical investigation, incl. laboratory test, borehole logs, sampling and interpretive report as per geotechnical specification						
(a)	Level 2	borehole	1				
(b)	Level 4	borehole	1				
1.2.2	Soil resistivity tests	per tower	350				
2	**Foundations for towers/Poles including all setting out, Concrete, Reinforcement, Excavation, Pumping, Stub-Setting, Geotechnical Investigation (Level 2/Level 4), Shuttering, Leveling, Timbering, supply & Installation of foundation steelwork, Earthing Materials,Backfilling, approved Protective Coating & site clearing etc.**						
2.1	**Tower type "1DL"**						
2.1.1	Pile Foundation for Soil Category-2	per tower	60				
2.1.2	Pile Foundation for Soil Category-3	per tower	60				
2.1.3	Pile Foundation for Soil Category-4	per tower	30				
2.1.4	Piled Foundation with 1.0m raised chimney for Soil Category-2	per tower	12				
2.1.5	Piled Foundation with 1.0m raised chimney for Soil Category-3	per tower	12				
2.1.6	Piled Foundation with 1.0m raised chimney for Soil Category-4	per tower	8				
2.1.7	Piled Foundation with 2.0m raised chimney for Soil Category-2	per tower	12				
2.1.8	Piled Foundation with 2.0m raised chimney for Soil Category-3	per tower	12				
2.1.9	Piled Foundation with 2.0m raised chimney for Soil Category-4	per tower	8				
2.2	**Tower type "1D1" (Any extension)**						
2.2.1	Pile Foundation for Soil Category-2	per tower	5				
2.2.2	Pile Foundation for Soil Category-3	per tower	5				
2.2.3	Pile Foundation for Soil Category-4	per tower	4				
2.2.4	Piled Foundation with 1.0m raised chimney for any Soil Category	per tower	2				
2.2.5	Piled Foundation with 2.0m raised chimney for any Soil Category	per tower	2				

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4C Installation and Other Services							
2.3	**Tower type "1D25"**						
2.3.1	Pile Foundation for Soil Category-2	per tower	9				
2.3.2	Pile Foundation for Soil Category-3	per tower	11				
2.3.3	Pile Foundation for Soil Category-4	per tower	9				
2.3.4	Piled Foundation with 1.0m raised chimney for any Soil Category	per tower	6				
2.3.5	Piled Foundation with 2.0m raised chimney for any Soil Category	per tower	5				
2.4	**Tower type "1DT6"**						
2.4.1	Pile Foundation for Soil Category-2	per tower	13				
2.4.2	Pile Foundation for Soil Category-3	per tower	13				
2.4.3	Pile Foundation for Soil Category-4	per tower	10				
2.4.4	Piled Foundation with 1.0m raised chimney for any Soil Category	per tower	5				
2.4.5	Piled Foundation with 2.0m raised chimney for any Soil Category	per tower	5				
2.5	**Tower type "1QL"**						
2.5.1	Pile Foundation for Soil Category-2	per tower	4				
2.5.2	Pile Foundation for Soil Category-3	per tower	4				
2.5.3	Pile Foundation for Soil Category-4	per tower	2				
2.5.4	Piled Foundation with 1.0m raised chimney for any Soil Category	per tower	1				
2.5.5	Piled Foundation with 2.0m raised chimney for any Soil Category	per tower	1				
2.6	**Tower type "1Q15"**						
2.6.1	Pile Foundation for any Soil Category	per tower	1				
2.6.2	Piled Foundation with 1.0m raised chimney for any Soil Category	per tower	1				
2.6.3	Piled Foundation with 2.0m raised chimney for any Soil Category	per tower	1				
2.7	**Tower type "1Q30"**						
2.7.1	Pile Foundation for any Soil Category	per tower	1				
2.7.2	Piled Foundation with 1.0m raised chimney for any Soil Category	per tower	1				
2.7.3	Piled Foundation with 2.0m raised chimney for any Soil Category	per tower	1				
2.8	**Tower type "1QT6"**						
2.8.1	Pile Foundation for any Soil Category	per tower	3				
2.8.2	Piled Foundation with 1.0m raised chimney for any Soil Category	per tower	1				
2.8.3	Piled Foundation with 2.0m raised chimney for any Soil Category	per tower	1				
2.9	**River Crossing Foundation for Normal (Non-River Crossing) Tower**						
2.9.1	Pile foundation for tower type "1DT6"	Per tower	2				
2.9.2	Pile foundation for tower type "1D1" (Any extension)	Per tower	2				

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4C Installation and Other Services							
2.10	**Pole Foundation**						
2.10.1	Pile Foundation for any Soil Category- Pole type 1DLP	per tower	1				
2.10.2	Pile Foundation for any Soil Category-Pole type 1D1P	per tower	1				
2.10.3	Pile Foundation for any Soil Category-Pole type 1D25P	per tower	1				
2.10.4	Pile Foundation for any Soil Category-Pole type 1DT6P	per tower	1				
2.10.5	Pile Foundation for any Soil Category-Pole type 1DT9P	per tower	1				
3	**Erection of 132kV double circuit Towers/Poles complete with all stubs, nuts, bolts, locking nuts, washers, phase conductor and earthwire swivels/shackles, step bolts, tower notice and identification plates, ACDs, ptotective coating, earthing etc.**						
3.1	**Tower type "1DL"**						
3.1.1	Tower type 1DL Standard	each	20				
3.1.2	Tower type 1DL+1.5 m	each	25				
3.1.3	Tower type 1DL+3 m	each	25				
3.1.4	Tower type 1DL+4.5 m	each	40				
3.1.5	Tower type 1DL+6 m	each	52				
3.1.6	Tower type 1DL+9 m	each	52				
3.2	**Tower type "1D1"**						
3.2.1	Tower type 1D1 Standard	each	NIL				
3.2.2	Tower type 1D1 +1.5 m	each	NIL				
3.2.3	Tower type 1D1 +3 m	each	NIL				
3.2.4	Tower type 1D1 +4.5 m	each	NIL				
3.2.5	Tower type 1D1 +6 m	each	5				
3.2.6	Tower type 1D1 +9 m	each	5				
3.2.7	Tower type 1D1 +12 m	each	10				
3.3	**Tower type "1D25"**						
3.3.1	Tower type 1D25 Standard	each	5				
3.3.2	Tower type 1D25 +1.5 m	each	7				
3.3.3	Tower type 1D25+3 m	each	10				
3.3.4	Tower type 1D25 +9 m	each	18				
3.4	**Tower type "1DT6"**						
3.4.1	Tower type 1DT6 Standard	each	5				
3.4.2	Tower type 1DT6+1.5 m	each	5				
3.4.3	Tower type 1DT6+3 m	each	5				
3.4.4	Tower type 1DT6+4.5 m	each	9				

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4C Installation and Other Services							
3.4.5	Tower type 1DT6+6 m	each	12				
3.4.6	Tower type 1DT6+9 m	each	12				
3.5	**Tower Type 1QL**						
3.5.1	Tower Type 1QL Standard	each	NIL				
3.5.2	Tower Type 1QL+1.5 m	each	NIL				
3.5.3	Tower Type 1QL+3.0 m	each	3				
3.5.4	Tower Type 1QL+4.5 m	each	NIL				
3.5.5	Tower Type 1QL+6.0 m	each	3				
3.5.6	Tower Type 1QL+9.0 m	each	6				
3.6	**Tower Type 1Q15**						
3.6.1	Tower type 1Q15 Standard	each	NIL				
3.6.2	Tower type 1Q15 +1.5 m	each	NIL				
3.6.3	Tower type 1Q15 +3.0 m	each	NIL				
3.6.4	Tower type 1Q15 +4.5 m	each	NIL				
3.6.5	Tower type 1Q15 +6.0 m	each	1				
3.6.6	Tower type 1Q15+9.0 m	each	1				
3.6.7	Tower type 1Q15 +12.0 m	each	1				
3.6.8	Tower type 1Q15 +15.0 m	each	NIL				
3.7	**Tower Type 1Q30**						
3.7.1	Tower type 1Q30 Standard	each	NIL				
3.7.2	Tower type 1Q30 +3.0 m	each	1				
3.7.3	Tower type 1Q30 +4.5 m	each	NIL				
3.7.4	Tower type 1Q30 +6.0 m	each	1				
3.7.5	Tower type 1Q30 +9.0 m	each	1				
3.8	**Tower Type 1QT6**						
3.8.1	Tower type 1QT6 Standard	each	NIL				
3.8.2	Tower type 1QT6+1.5 m	each	NIL				
3.8.3	Tower type1QT6+3.0 m	each	1				
3.8.4	Tower type 1QT6+4.5 m	each	NIL				
3.8.5	Tower Type 1QT6+6.0 m	each	1				
3.8.6	Tower Type 1QT6+9.0 m	each	3				

Item	Description	Unit	Quantity	Unit Price1		Total Price1	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4C Installation and Other Services							
3.9	**Pole Erection**						
3.9.1	Pole type 1DLP	per tower	1				
3.9.2	Pole type 1D1P	per tower	1				
3.9.3	Pole type 1D25P	per tower	1				
3.9.4	Pole type 1DT6P	per tower	1				
3.9.5	Pole type 1D9P	per tower	1				
3.10	Crossarm erection for pole type 1DT6P	per set of three	1				
3.11	Crossarm erection for tower type 1DT6	per set of three	3				
3.12	Crossarm erection for tower type 1QT6	per set of three	4				
3.13	**Galvanized Tower Steel Works**						
3.13.1	Fabricated	per ton	5				
4	**Testing of Foundations**						
	Overland Portion						
4.1	**Individual Pile test including supply,install and test to prove compliance with technical specification, payment for successful test only (applicable for all tower types selected by the Employer's Engineer):**						
(a)	Compression test	per test	3				
(b)	Uplift test	per test	3				
(c)	Pile Integrity test	per test	1400				
5	**Stringing of double/four circuit line, two conductors per phase, 1 OPGW and 1 conventional earthwire (length approx. Route km)**						
5.1	**Overland Portion**						
5.1.1	Conductor "ACSR Grosbeak" Phase Conductor (double circuit line, both circuits erected, one conductors per phase) including: Installation of insulation strings, compressed dead-ends, compression junction sleeves, suspension clamps, Sagging and clipping, Installation of armour rods and Dampers, Pilot strings and jumpers and any other works required as per specification.	route km	65				
5.1.2	One optical fibre ground wire, 24 fibres 7×3.25 steel earthwire equivalent OPGW shield wire, including joint box, including:Tension and semi-tension joints, suspension clamps, armour rods and dampers,Sagging and clipping, Installation of intermediate junction boxes and terminal junction boxes at substation gantries ,Earthing jumpers	route km	65				

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4C Installation and Other Services							
5.1.3	One 7x3.25mm earthwire including Compressed dead-ends, compression junction sleeves suspension clamps, armour rods and dampers,Sagging and clipping, Earthing jumpers, warning sphere(**if required**)	route km	65				
6	**Documentation**						
6.1	Establishment of as-built drawings, manuals and all requested documents as per specifications	lump sum	1				
7	**Miscellaneous**						
7.1	General and other works and services, not mentioned before	lump sum	1				
7.2	Transport of the material and equipment supplied from Employer's Country	lump sum	1				
7.3	Insurance of material and equipment supplied from Employer's Country during transport	lump sum	1				
7.4	Painting of tower having height more than 60 meter in accordance with the requirements of the Technical Specification	per tower	5				
7.5	Painting of tower (Reflecting Paint) upto 3 meter in submerge area in accordance with the requirements of the Technical Specification	per tower	5				
7.6	Erection of OPGW connection from terminal tower to substation Gantry/Mast	per wire	2				
7.7	Additional counterpoise earthing in accordance with requirement of the Technical specification	per meter	50				
7.8	Miscellaneous Rates for works certified by the Engineer in accordance with method of Payment						
(a)	Additional Excavation	cu.m	200				
(b)	Additional Concrete	cu.m	200				
(c)	Additional Reinforcement	kg	1200				
(d)	Extra for surface resisting cement per cu.m of concrete	cu.m	100				
(e)	Additional Boring (500mm diameter)	rm	100				
(f)	Additional Boring (600mm diameter)	rm	100				
(g)	Additional Boring (750mm diameter)	rm	100				
(h)	Sand Filling	cu.m	225				
7.9	Environmental and Social Services	lump sum	1				
7.10	STI. STD and HIV/AIDS alleviation program[2]	lump sum	1				

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4C Installation and Other Services							
7.11	Costs and Expenses related to test witness[3](Provisional Sum)	lump sum	1		$90,000.00		$ 90,000.00
7.12	Payment of compensation for using private land to construct transmission line towers [based on area of tower footprint]	lump sum	1	40,033,000.00		40,033,000.00	
7.13	Payment of compensation for lines (for affected trees, crops etc. on the Right of Way and at the substation ends)	lump sum	1	95,413,000.00		95,413,000.00	
Total Columns 7 & 8 to be carried forward to Schedule No. 5 - Grand Summary							
8	Total Tax and VAT deductable at source(TDS & VDS) under the schedule 4B(to be quoted in the currency similar as above)[4]						

Name of Bidder _____

Signature of Bidder _____

1 Specify currencies in accordance with ITB 19.1 of the BDS. Create additional columns for up to a maximum of three foreign currencies, if so required.

2 As described in SCC 22.2.7

3 These costs are fixed ceiling and will be included in total price. But the payment shall be at actual upon submission of relevant documents.

4.Bidder shall quote the amount considering clause 14.1 of section 8(Special Conditions of Contract), Volume 1 of 3 of the bidding document. The amount quoted by bidder is subject to arithmatic correction by Employer as required.

D. 132 kV Line-In-Line-Out (LILO) at Cox's Bazar (North) substation from Dohazari - Cox's Bazar 132 kV double circuit transmission line: 1.55 km (using Single ACSR Grosbeak equivalent ACCC conductor)

Item	Description	Unit	Quantity	Unit Price1		Total Price1	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4D Installation and Other Services							
1	**Survey and soil investigation works**						
1.1	**Survey Work**						
1.1.1	Check survey in accordance with the requirements of the technical specification, incl. Full ground survey with change of route, if any, tower plotting and preparation and submission of route maps, profile drawings, SIMM documents, etc.	Route km	1.55				
1.2	**Geotechnical Investigations incl. taking samples, logging and lab testing**						
1.2.1	Boreholes for geotechnical investigation, incl. laboratory test, borehole logs, sampling and interpretive report as per geotechnical specification						
(a)	Level 2	borehole	1				
(b)	Level 4	borehole	1				
1.2.2	Soil resistivity tests	per tower	9				
2	**Foundations for towers/Poles including all setting out, Concrete, Reinforcement, Excavation, Pumping, Stub-Setting, Geotechnical Investigation (Level 2/ Level 4), Shuttering, Leveling, Timbering, supply & Installation of foundation steelwork, Earthing Materials,Backfilling, approved Protective Coating & site clearing etc.**						
2.1	**Tower type "1DT6"**						
2.1.1	Pile Foundation for any Soil Category with 1/2 m raised chimney	per tower	2				
2.2	**Tower Type "1QL"**						
2.2.1	Pile Foundation for any Soil Category with 1/2 m raised chimney	per tower	1				
2.3	**Tower Type "1Q15"**						
2.3.1	Pile Foundation for any Soil Category with 1/2 m raised chimney	per tower	1				
2.4	**Tower Type "1Q30"**						
2.4.1	Pile Foundation for any Soil Category with 1/2 m raised chimney	per tower	2				
2.5	**Tower Type "1QT6"**						
2.5.1	Pile Foundation for any Soil Category with 1/2 m raised chimney	per tower	3				

Item	Description	Unit	Quantity	Unit Price1		Total Price1	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4D Installation and Other Services							
3	**Erection of 132kV double circuit Towers/Poles complete with all stubs, nuts, bolts, locking nuts, washers, phase conductor and earthwire swivels/shackles, step bolts, tower notice and identification plates, ACDs, ptotective coating, earthing etc.**						
3.1	**Tower type "1DT6"**						
3.1.1	Tower type 1DT6+6 m	each	1				
3.1.2	Tower type 1DT6+9 m	each	1				
3.2	**Tower Type "1QL"**						
3.2.1	Tower type 1QL+9 m	each	1				
3.3	**Tower Type "1Q15"**						
3.3.1	Tower type 1Q15+9 m	each	1				
3.4	**Tower Type "1Q30"**						
3.4.1	Tower type 1Q30+9 m	each	2				
3.5	**Tower Type "1QT6"**						
3.5.1	Tower type 1QT6+9 m	each	3				
3.6	Cross-arm Erection	per set of three	4				
3.7	**Dismantling and By-Pass line Construction**						
3.7.1	Dismantling of existing line section (including tower, conductor, insulator and other accessories) whichever is required for line in/out, storing the dismantled materials at PGCB store (anywhere in Bangladesh)	per span	1				
3.7.2	By passing the required line section with Tower/Pole/ERS. Tower/Pole/ERS for by passing shall be collected from PGCB store (anywhere in Bangladesh)	per span	1				
3.7.3	Dismantling of by pass line after completing line in line out and storing the Tower/Pole/ERS of by pass line as PGCB store (anywhere in Bangladesh)	per span	1				
4	**Testing of Foundations**						
	Overland Portion						
4.1	**Individual Pile test including supply,install and test to prove compliance with technical specification, payment for successful test only (applicable for all tower types selected by the Employer's Engineer):**						
(a)	Compression test	per test	1				
(b)	Uplift test	per test	1				
(c)	Pile Integrity test	per test	36				

Item	Description	Unit	Quantity	Unit Price1		Total Price1	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4D Installation and Other Services							
5	**Stringing of double/four circuit line, two conductors per phase, 1 OPGW and 1 conventional earthwire (length approx. Route km)**						
5.1	**Overland Portion**						
5.1.1	Conductor "ACSR Grosbeak equivalent ACCC" Phase Conductor (four circuit line, all circuits erected, one conductors per phase) including: Installation of insulation strings, compressed dead-ends, compression junction sleeves, suspension clamps, Sagging and clipping, Installation of armour rods and Dampers, Pilot strings and jumpers and any other works required as per specification.	route km	1.55				
5.1.2	Two optical fibre ground wire, 48 fibres 7×3.25 steel earthwire equivalent OPGW shield wire, including joint box, including:Tension and semi-tension joints, suspension clamps, armour rods and dampers,Sagging and clipping, Installation of intermediate junction boxes and terminal junction boxes at substation gantries ,Earthing jumpers	route km	1.55				
6	**Documentation**						
6.1	Establishment of as-built drawings, manuals and all requested documents as per specifications	lump sum	1				
7	**Miscellaneous**						
7.1	General and other works and services, not mentioned before	lump sum	1				
7.2	Transport of the material and equipment supplied from Employer's Country	lump sum	1				
7.3	Insurance of material and equipment supplied from Employer's Country during transport	lump sum	1				
7.4	Painting of 60 meter and over tower in accordance with the requirements of the Technical Specification	per tower	1				
7.5	Painting of tower (Reflecting Paint) upto 3 meter in submerge area in accordance with the requirements of the Technical Specification	per tower	NIL				
7.6	Erection of OPGW connection from terminal tower to substation Gantry/Mast	per wire	2				
7.7	Additional counterpoise earthing in accordance with requirement of the Technical specification	per meter	50				

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
Schedule No. 4D Installation and Other Services							
7.8	Miscellaneous Rates for works certified by the Engineer in accordance with method of Payment						
(a)	Additional Excavation	cu.m	200				
(b)	Additional Concrete	cu.m	200				
(c)	Additional Reinforcement	kg	1200				
(d)	Extra for surface resisting cement per cu.m of concrete	cu.m	100				
(e)	Additional Boring (500mm diameter)	rm	100				
(f)	Additional Boring (600mm diameter)	rm	100				
(g)	Additional Boring (750mm diameter)	rm	100				
(h)	Sand Filling	cu.m	225				
7.9	Environmental and Social Services	lump sum	1				
7.10	STI. STD and HIV/AIDS alleviation program[2]	lump sum	1				
7.11	Costs and Expenses related to test witness[3](Provisional Sum)	lump sum	1				
7.12	Payment of compensation for using private land to construct transmission line towers [based on area of tower footprint]	lump sum	1	5,048,000.00		5,048,000.00	
7.13	Payment of compensation for lines (for affected trees, crops etc. on the Right of Way and at the substation ends)	lump sum	1	8,445,000.00		8,445,000.00	
Total Columns 7 & 8 to be carried forward to Schedule No. 5 - Grand Summary							
8	Total Tax and VAT deductable at source(TDS & VDS) under the schedule 4B(to be quoted in the currency similar as above)[4]						

Name of Bidder _____

Signature of Bidder _____

1 Specify currencies in accordance with ITB 19.1 of the BDS. Create additional columns for up to a maximum of three foreign currencies, if so required.

2 As described in SCC 22.2.7

3 These costs are fixed ceiling and will be included in total price. But the payment shall be at actual upon submission of relevant documents.

4.Bidder shall quote the amount considering clause 14.1 of section 8(Special Conditions of Contract), Volume 1 of 3 of the bidding document. The amount quoted by bidder is subject to arithmatic correction by Employer as required.

Design, Supply, Installation, Testing & Commissioning of 230 kV and 132 kV Transmission Lines for Southern Area of Chattogram Division & Bangabandhu Hi-Tech City at Kaliakoir on Turnkey Basis (Contract No.PGCB/AIIB/000308-BGD/TL/Package-2)

Schedule No. 5 Grand Summary

Item	Description	Total Price[1]	
		Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
	A. Anwara-Cox's Bazar (North) 230 kV double circuit transmission line (Initially charged at 132 kV): 109 km with 0.49 km river crossing portion (using twin ACSR mallard Conductor)		
	Schedule No. A1.1 Plant and Mandatory Spare Parts Supplied from Abroad		
	Schedule No. A1.2 Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
	Schedule No. A1.4 Installation and Other Services		
	Sub-Total		
	B. Bangabandhu Hi-Tech City-Kaliakoir 230 kV double circuit transmission line: 4.88 km (using Twin ACSR Mallard conductor)		
	Schedule No. B2.1 Plant and Mandatory Spare Parts Supplied from Abroad		
	Schedule No. B2.2 Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
	Schedule No. B2.4 Installation and Other Services		
	Sub-Total		
	C. Cox's Bazar (North)-Teknaf 132 kV double circuit transmission line: 65 km (using Single ACSR Grosbeak Conductor)		
	Schedule No. C3.1 Plant and Mandatory Spare Parts Supplied from Abroad		
	Schedule No. C3.2 Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
	Schedule No. C3.4 Installation and Other Services		
	Sub-Total		
	D. 132 kV Line-In-Line-Out (LILO) at Cox's Bazar (North) substation from Dohazari - Cox's Bazar 132 kV double circuit transmission line: 1.55 km (using Single ACSR Grosbeak equivalent ACCC conductor)		
	Schedule No. D4.1 Plant and Mandatory Spare Parts Supplied from Abroad		
	Schedule No. D4.2 Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
	Schedule No. D4.4 Installation and Other Services		
	Sub-Total		
3	Schedule No. 3 Design Services (A+B+C+D)		
	GRAND TOTAL		

Name of Bidder _____

Signature of Bidder _____

1. Specify currencies in accordance with ITB 19.1 of the BDS. Create additional columns for up to a maximum of three foreign currencies, if so required.

2. Taxes and/or duties from Schedule 1 and 2 may be added to the contract price in accordance with GCC 14 (Taxes and Duties) but excluded from bid evaluation in accordance with ITB 39.2" 3. All sections, considered here is for one single project. If an item (alongwith unit price) is not available in a section but available in another section of this contract; during execution, if such item (alongwith unit price) is needed to be used in the section where the item is not available then such item (alongwith unit price) can be used in the section where it in not available. If the same exists in more than one item lowest unit price among them will be considered.

Design, Supply, Installation, Testing & Commissioning of 230 kV and 132 kV Transmission Lines for Southern Area of Chattogram Division & Bangabandhu Hi-Tech City at Kaliakoir on Turnkey Basis (Contract No. PGCB/AIIB/000308-BGD/TL/Package-2)

Schedule No. 6. Recommended Spare Parts

Item	Description	Unit	Quantity	Unit Price[1]		Total Price[1]	
				Local Currency Portion [BDT]	Foreign Currency Portion [xxxxx]	Local Currency Portion [BDT]	Foreign Currency Portion [xxx]
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6

Name of Bidder _____

Signature of Bidder _____

1. Specify currencies in accordance with ITB 19.1 of the BDS. Create additional columns for up to a maximum of three foreign currencies, if so required.