

## ODISHA POWER TRANSMISSION CORPORATION LIMITED

NAME OF THE WORK:-Construction of 220 kV LILO Line from 220 kV Bhadrak - Balasore D.C line & 220 kV LILO Line from 220 kV Dhamara - Balesore D.C line to 400/220 KV Out Door type GIS S/S,(Ramkrushnapur) Bhadrak. (Approx. Line length-38.194 Km) . in Odisha State of India under PACKAGE-2 Under Japan International Cooperation Agency (JICA)'s ODA Loan.

Loan Agreement No: [ID-P245] - FB No: [CPC/JICA/ICB/02/18-19/.....]- Reference Identification No: [OPTCL/JICA/PKG-2]

Schedule No. 1. Plant Supplied from Abroad (Transmission Line)

NAME OF THE BIDDER							
Item	DESCRIPTION OF ITEMS(SCHEDULE-1-Line) SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS (As per Technical Specification)	Code <sup>1</sup>	UNITS	220 kV LILO Line from 220 kV Bhadrak - Balasore D.C line & 220 kV LILO Line from 220 kV Dhamara - Balesore D.C line to 400/220 KV Out Door type GIS S/S,(Ramkrushnapur) Bhadrak. (Approx. Line length-38.194 Km)	Unit Price <sup>2</sup>		Total Price <sup>2</sup>
					In Foreign Currency	CIP	
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-1-Line) SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS (As per Technical Specification)			1	(2)	(3)	(1) x (3)
1	SUPPLY of Following type tested Lattice type Galvanized steel tangent / Angle tower with stubs and cleats , different type of G.I HT Nuts & Bolts, washer, spring washer for the towers ,hanger and all accessories, tower super structure complete including step bolts. Supply of black bituminous paint for three coats up to a height of 500mm above the cooping(legs & bracing members). All Supply should confirm to the Technical Specification.						
1.1	OC TYPE (60 deg ANGLE ) TOWERS (Nominal unit weight 9.874MT) (4 nos)		Nos.	4.00			
1.1.1	+3 EXTENSION (Nominal unit weight 1.436 MT) (0 nos)		Nos.	0.00			
1.1.2	+6 EXTENSION (Nominal unit weight 2.600 MT) (4 nos)		Nos.	4.00			
1.2	MA TYPE (SUSPENSION ) MULTICIRCUIT TOWERS (Nominal unit weight 15.154 MT) (75 nos)		Nos.	75.00			
1.2.1	+3 EXTENSION (Nominal unit weight 1.667 MT) (11 nos)		Nos.	11.00			
1.2.2	+6 EXTENSION (Nominal unit weight 2.903 MT) (0 nos)		Nos.	0.00			
1.3	MB TYPE (30 deg ANGLE ) MULTICIRCUIT TOWERS (Nominal unit weight 24.375 MT) (29 nos)		Nos.	29.00			
1.3.1	+3 EXTENSION (Nominal unit weight 2.690 MT) (12 Nos)		Nos.	12.00			
1.3.2	+6 EXTENSION (Nominal unit weight 4.475 MT) (4 nos)		Nos.	4.00			
1.4	MC TYPE (60 deg ANGLE ) MULTICIRCUIT TOWERS (Nominal unit weight 31.088 MT) (32 nos)		Nos.	32.00			
1.4.1	+3 EXTENSION (Nominal unit weight 3.596 MT) (9 nos)		Nos.	9.00			
1.4.1	+6 EXTENSION (Nominal unit weight 5.944 MT) (5 nos)		Nos.	5.00			
	+9 EXTENSION (Nominal unit weight 9.469 MT) (7 nos)		Nos.	7.00			
1.5	<b>TEMPLATES</b>						
1.5.1	OC (Nominal unit weight 0.963 MT)(1 Nos.)		Nos.	1.00			

1.5.2	MA (Nominal unit weight 1.030 MT)(8 Nos.)		Nos.	8.00			
1.5.3	MB (Nominal unit weight 1.175 MT)(4 Nos.)		Nos.	4.00			
1.5.4	MC (Nominal unit weight 1.308 MT)(4 Nos.)		Nos.	4.00			
1.6	WEIGHT OF THE STRUCTURES HT (including Tower stubs, & Foundation Nut and Bolts)		<b>MT</b>	<b>1701.728</b>			
1.7	WEIGHT OF THE STRUCTURES MS (INCLUDING WEIGHT OF TEMPLATE)		<b>MT</b>	<b>1567.924</b>			
1.8	Weight of different type G.I Nuts and Bolts		MT	<b>163.483</b>			
<b>2.0</b>	<b>Supply of the following tower accessories as per technical specification and as directed by the engineer in charge.</b>						
2.1	EARTHING DEVICE		Nos.	140			
2.2	DANGER BOARD		Nos.	140			
2.3	NUMBER PLATE		Nos.	140			
2.4	PHASE PLATE		Nos.	840			
2.5	BIRD GUARD		Nos.	900			
2.6	ANTICLIMBING DEVICE		Nos.	140			
2.7	CIRCUIT PLATE		Nos.	280			
<b>3.0</b>	<b>Supply of following POWER CONDUCTORS in the proposed 220 KV line with provision for 1.5 % sag and wastage as per the technical specification and as per the instruction of the engineer in charge.</b>						
3.2	LL-ACSR ZEBRA 490mm(Aluminium clad/Galvanise steel core type) power conductor		Kms.	465.150			
<b>4.0</b>	<b>POWER CONDUCTOR ACESSORIES</b>						
<b>4.2</b>	<b>For LL-ACSR ZEBRA 490mm(Aluminium clad/Galvanise steel core type) power conductor</b>						
4.2.1	VIBRATION DAMPER		Nos.	5166			
4.2.2	MID SPAN JOINT		Set	40			
4.2.3	REPAIR SLEEVE		Set	40			
4.2.4	P A ROD FOR ACSR ZEBRA		Set	900			
4.2.5	PG CLAMP FOR ACSR ZEBRA		Set	50			
<b>5.0</b>	<b>Supply of OPGW fibre Optic Cable for speech, data &amp; protection</b>						
<b>5.1</b>	48 Fibre(DWSM) OPGW fibre Optic Cable		Kms.	40.00			
<b>5.2</b>	OPGW hardware set like suspension Asembly, Tension Assembly (Dead end assembly, Pass through assembly), Vibration Damper, Down Lead Clamp Assembliesfor 24 Fibre(DWSM) OPGW, Joint Box		set	<b>40.00</b>			
<b>6.0</b>	<b>Supply of the following Long Rod porcelain insulators as per the technical specification and as per the instruction of the Engineer in charge.</b>						
6.3	90 KN Long Rod Porcelain Insulator for 220 KV [2 Nos. in ONE SET]		SET	1692			
6.4	160 KN Long Rod Porcelain Insulator for 220 KV [2 Nos. in ONE SET]		SET	4632			
<b>7.0</b>	<b>Supply of the following hard ware fittings as per the technical specification.</b>						
<b>7.1</b>	<b>For LL-ACSR ZEBRA 490mm</b>						
7.1.1	Single suspension Hard wares fittings.(AGS type) suitable for 120 KN Long Rod Porcelain insulator.		Nos.	636			
7.1.2	Double suspension Hard wares fittings.(AGS type) suitable for 120 KN Long Rod Porcelain insulator.		Nos.	528			
7.1.3	Single tension Hard wares fittings suitable for 160 KN Long Rod Porcelain insulator.		Nos.	2136			

7.1.4	Double tension Hard wares fittings suitable for 160 KN Long Rod Porcelain insulator.		Nos.	1248			
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7.1.5	Hanger		Nos.	900		
7.1.6	"D" Shackle		Nos.	200		
7.1.7	U-Bolt.		Nos.	75		
TOTAL OF Schedule-1 Line To Schedule-6 Grand Summary						

Name of Bidder: \_\_\_\_\_

Signature of Bidder: \_\_\_\_\_

<sup>1</sup> Bidders shall enter a code representing the country of origin of all imported plant and equipment.

<sup>2</sup> Specify currency in accordance with specifications in Bid Data Sheet under ITB 19.1 in Single-Stage Bid, or ITB 34.1 in Two-Stage Bid. Create and use as many columns for Unit Price and Total Price as there are currencies.

Country of Origin Declaration Form

Item	Description	Code	Country

**ODISHA POWER TRANSMISSION CORPORATION LIMITED**

NAME OF THE WORK:-Construction of 220 kV LILO Line from 220 kV Bhadrak - Balasore D.C line & 220 kV LILO Line from 220 kV Dhamara - Balesore D.C line to 400/220 KV Out Door type GIS S/S,(Ramkrushnapur) Bhadrak. (Approx. Line length-38.194 Km) . in Odisha State of India under PACKAGE-2 Under Japan International Cooperation Agency (JICA)'s ODA Loan.

Loan Agreement No: [ID-P245] - FB No: [CPC/JICA/ICB/02/18-19/.....]- Reference Identification No: [OPTCL/JICA/PKG-2]

**Schedule No. 2. Plant Supplied from Within the Employer's Country (Transmission Line)**

NAME OF THE BIDDER		UNITS	220 kV LILO Line from 220 kV Bhadrak - Balasore D.C line & 220 kV LILO Line from 220 kV Dhamara - Balesore D.C line to 400/220 KV Out Door type GIS S/S,(Ramkrushnapur) Bhadrak. (Approx. Line length-38.194 Km)	Unit Price <sup>2</sup>	Total Price <sup>2</sup>
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-1-Line) SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS (As per Technical Specification)				
			1	2	(1x2)
1	SUPPLY of Following type tested Lattice type Galvanized steel tangent / Angle tower with stubs and cleats , different type of G.I HT Nuts & Bolts, washer, spring washer for the towers ,hanger and all accessories, tower super structure complete including step bolts. Supply of black bituminous paint for three coats up to a height of 500mm above the cooping(legs & bracing members). All Supply should confirm to the Technical Specification.	UNITS	Total Quantity		
1.1	OC TYPE (60 deg ANGLE ) TOWERS (Nominal unit weight 9.874MT) (4 nos)	Nos.	4.00		
1.1.1	+3 EXTENSION (Nominal unit weight 1.436 MT) (0 nos)	Nos.	0.00		
1.1.2	+6 EXTENSION (Nominal unit weight 2.600 MT) (4 nos)	Nos.	4.00		
1.2	MA TYPE (SUSPENSION ) MULTICIRCUIT TOWERS (Nominal unit weight 15.154 MT) (75 nos)	Nos.	75.00		
1.2.1	+3 EXTENSION (Nominal unit weight 1.667 MT) (11 nos)	Nos.	11.00		
1.2.2	+6 EXTENSION (Nominal unit weight 2.903 MT) (0 nos)	Nos.	0.00		
1.3	MB TYPE (30 deg ANGLE ) MULTICIRCUIT TOWERS (Nominal unit weight 24.375 MT) (29 nos)	Nos.	29.00		
1.3.1	+3 EXTENSION (Nominal unit weight 2.690 MT) (12 Nos)	Nos.	12.00		
1.3.2	+6 EXTENSION (Nominal unit weight 4.475 MT) (4 nos)	Nos.	4.00		
1.4	MC TYPE (60 deg ANGLE ) MULTICIRCUIT TOWERS (Nominal unit weight 31.088 MT) (32 nos)	Nos.	32.00		
1.4.1	+3 EXTENSION (Nominal unit weight 3.596 MT) (9 nos)	Nos.	9.00		
1.4.1	+6 EXTENSION (Nominal unit weight 5.944 MT) (5 nos)	Nos.	5.00		
	+9 EXTENSION (Nominal unit weight 9.469 MT) (7 nos)	Nos.	7.00		
1.5	<b>TEMPLATES</b>				
1.5.1	OC (Nominal unit weight 0.963 MT)(1 Nos.)	Nos.	1.00		
1.5.2	MA (Nominal unit weight 1.030 MT)(8 Nos.)	Nos.	8.00		
1.5.3	MB (Nominal unit weight 1.175 MT)(4 Nos.)	Nos.	4.00		
1.5.4	MC (Nominal unit weight 1.308 MT)(4 Nos.)	Nos.	4.00		
1.6	WEIGHT OF THE STRUCTURES HT (including Tower stubs, & Foundation Nut and Bolts)	<b>MT</b>	<b>1701.728</b>		

1.7	WEIGHT OF THE STRUCTURES MS (INCLUDING WEIGHT OF TEMPLATE)	MT	1567.924		
1.8	Weight of different type G.I Nuts and Bolts	MT	163.483		
<b>2.0</b>	<b>Supply of the following tower accessories as per technical specification and as directed by the engineer in charge.</b>				
2.1	EARTHING DEVICE	Nos.	140		
2.2	DANGER BOARD	Nos.	140		
2.3	NUMBER PLATE	Nos.	140		
2.4	PHASE PLATE	Nos.	840		
2.5	BIRD GUARD	Nos.	900		
2.6	ANTICLIMBING DEVICE	Nos.	140		
2.7	CIRCUIT PLATE	Nos.	280		
<b>3.0</b>	<b>Supply of following POWER CONDUCTORS in the proposed 220 KV line with provision for 1.5 % sag and wastage as per the technical specification and as per the instruction of the engineer in charge.</b>				
3.2	LL-ACSR ZEBRA 490mm(Aluminium clad/Galvanise steel core type) power conductor	Kms.	465.150		
<b>4.0</b>	<b>POWER CONDUCTOR ACCESSORIES</b>				
4.2	<b>For LL-ACSR ZEBRA 490mm(Aluminium clad/Galvanise steel core type) power conductor</b>				
4.2.1	VIBRATION DAMPER	Nos.	5166		
4.2.2	MID SPAN JOINT	Set	40		
4.2.3	REPAIR SLEEVE	Set	40		
4.2.4	PG CLAMP FOR ACSR ZEBRA	Set	50		
<b>5.0</b>	<b>Supply of OPGW fibre Optic Cable for speech, data &amp; protection</b>				
5.1	48 Fibre(DWSM) OPGW fibre Optic Cable	Kms.	40.00		
5.2	OPGW hardware set like suspension Assembly, Tension Assembly (Dead end assembly, Pass through assembly), Vibration Damper, Down Lead Clamp Assemblies for 24/48 Fibre(DWSM) OPGW, Joint Box	Kms.	40.00		
<b>6.0</b>	<b>Supply of the following Long Rod porcelain insulators as per the technical specification and as per the instruction of the Engineer in charge.</b>				
6.3	90 KN Long Rod Porcelain Insulator for 220 KV [2 Nos. in ONE SET]	SET	1692		
6.4	160 KN Long Rod Porcelain Insulator for 220 KV [2 Nos. in ONE SET]	SET	4632		
<b>7.0</b>	<b>Supply of the following hard ware fittings as per the technical specification.</b>				
<b>7.1</b>	<b>For LL-ACSR ZEBRA 490mm</b>				
7.1.1	Single suspension Hard wares fittings.(AGS type along with PA Rod) suitable for 90 KN Long Rod Porcelain insulator.	Nos.	636		
7.1.2	Double suspension Hard wares fittings.(AGS type along with PA Rod) suitable for 90 KN Long Rod Porcelain insulator.	Nos.	528		
7.1.3	Single tension Hard wares fittings suitable for 160 KN Long Rod Porcelain insulator.	Nos.	2136		
7.1.4	Double tension Hard wares fittings suitable for 160 KN Long Rod Porcelain insulator.	Nos.	1248		
7.1.5	Hanger	Nos.	900		
7.1.6	"D" Shackle	Nos.	200		
7.1.7	U-Bolt.	Nos.	75		
<b>TOTAL OF Schedule-2 Line To Schedule-6 Grand Summary</b>					
Name of Bidder: _____ Signature of Bidder: _____					

<sup>1</sup> Prices of Items quoted in Schedule No.1 shall not be quoted again in Schedule No. 2 and shall have a remark against the said row "Quoted in Schedule No.-1".
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**ODISHA POWER TRANSMISSION CORPORATION LIMITED**

NAME OF THE WORK:-Construction of 220 kV LILO Line from 220 kV Bhadrak - Balasore D.C line & 220 kV LILO Line from 220 kV Dhamara - Balesore D.C line to 400/220 KV Out Door type GIS S/S,(Ramkrushnapur) Bhadrak. (Approx. Line length-38.194 Km) . in Odisha State of India under PACKAGE-2 Under Japan International Cooperation Agency (JICA)'s ODA Loan.

**Loan Agreement No: [ID-P245] - FB No: [CPC/JICA/ICB/02/18-19/.....]- Reference Identification No: [OPTCL/JICA/PKG-2]**

**Schedule No. 4. Installation and Other Services (Transmission line)**

NAME OF THE BIDDER							
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-4-line) <b>ERECTION,TESTING &amp; COMMISSIONING OF FOLLOWING EQUIPMENTS ALONG WITH CIVIL WORKS (As per Technical Specification)</b>	UNIT	220 kV LILO Line from 220 kV Bhadrak - Balasore D.C line & 220 kV LILO Line from 220 kV Dhamara - Balesore D.C line to 400/220 KV Out Door type GIS S/S,(Ramkrushnapur) Bhadrak. (Approx. Line length-38.194 Km)	Unit Price <sup>1</sup>		Total Price <sup>1</sup>	
				Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion
			1	2	3	(1x2)	(1x3)
<b>PART A</b>	<b>ELECTRICAL WORKS</b>						
<b>1.0</b>	<b>ERECTION,TESTING &amp; COMMISSIONING</b> of Following tested Lattice type Galvanized steel tangent / Angle tower without stubs and cleats including different type of G.I HT Nuts & Bolts, washer, spring washer for the above type towers ,hanger and all accessories, tower super structure complete with tightening, punching of bolts including step bolts. All other left out portion of the bolts above bottom cross arm shall be riveted by using suitable hammer. Painting of black bituminous paints three coats shall be provided up to a height of 500mm above the cooping legs & bracing members. All Erection should confirm to the Technical Specification laid there in the Tender Specification.						
1.1	OC TYPE (60 deg ANGLE ) TOWERS (Nominal unit weight 9.096 MT) (4 nos)	Sets	4.000				
1.1.1	+3 EXTENSION (Nominal unit weight 1.436 MT) (0 nos)	Sets	0.000				
1.1.2	+6 EXTENSION (Nominal unit weight 2.600 MT) (4 nos)	Sets	4.000				
1.2	MA TYPE (SUSPENSION ) MULTICIRCUIT TOWERS (Nominal unit weight 14.272 MT) (75 nos)	Sets	75.000				
1.2.1	+3 EXTENSION (Nominal unit weight 1.667 MT) (11 nos)	Sets	11.000				
1.2.2	+6 EXTENSION (Nominal unit weight 2.903 MT) (0 nos)	Sets	0.000				
1.3	MB TYPE (30 deg ANGLE ) MULTICIRCUIT TOWERS (Nominal unit weight 23.048 MT) (29 nos)	Sets	29.000				
1.3.1	+3 EXTENSION (Nominal unit weight 2.690 MT) (12 Nos)	Sets	12.000				
1.3.2	+6 EXTENSION (Nominal unit weight 4.475 MT) (4 nos)	Sets	4.000				
1.4	MC TYPE (60 deg ANGLE ) MULTICIRCUIT TOWERS (Nominal unit weight 28.962 MT) (32 nos)	Sets	32.000				
1.4.1	+3 EXTENSION (Nominal unit weight 3.596 MT) (9 nos)	Sets	9.000				
1.4.2	+6 EXTENSION (Nominal unit weight 5.944 MT) (5 nos)	Sets	5.000				
1.4.3	+9 EXTENSION (Nominal unit weight 9.469 MT) (7 nos)	Sets	7.000				
1.6	WEIGHT OF THE STRUCTURES HT (including Tower stubs, & Foundation Nut and Bolts)	<b>MT</b>	<b>1529.070</b>				
1.7	WEIGHT OF THE STRUCTURES MS (INCLUDING WEIGHT OF TEMPLATE)	<b>MT</b>	<b>1535.277</b>				
1.8	Weight of different type G.I Nuts and Bolts	<b>MT</b>	<b>153.217</b>				
1.7	<b>Fixing of Templates &amp; stubs.</b>						
1.7.1	OC (Nominal unit weight 1.741 MT)	MT	6.964				

1.7.2	MA (Nominal unit weight 1.912 MT)	MT	143.400				
1.7.3	MB (Nominal unit weight 2.38 MT)	MT	69.020				
1.7.4	MC (Nominal unit weight 2.653 MT)	MT	84.896				
<b>1.8</b>	<b>Erection of the following tower accessories as per technical specification and as directed by the engineer-in charge.</b>						
1.8.1	DANGER BOARD	Nos.	140				
1.8.2	NUMBER PLATE	Nos.	140				
1.8.3	PHASE PLATE (R,Y,B)	Sets	840				
1.8.4	BIRD GUARD	Sets	900				
1.8.5	ANTICLIMBING DEVICE	Sets	140				
1.8.6	CIRCUIT PLATE ( Phase-I,II)	Nos.	280				
1.8.7	EARTHING DEVICE	Nos.	140				
<b>2</b>	Hoisting and fixing of insulators with required accessories, paying out of conductor jointing, stringing, sagging & Jumpering etc. of power conductor in the proposed lines with all required accessories including scaffolding for 33 KV,11 KV, LT , P&T lines, roads and using own required T&P and compression jointing machines etc. with 1.5% provision for Sag & Wastage and as per the direction of Engineer in charge.						
2.1	<b>STRINGING OF LL-ACSR ZEBRA 490mm(Aluminium clad/Galvanise steel core type) power conductor</b>						
2.1.1	DOUBLE CIRCUIT (SIX POWER CONDUCTOR ), ADDITIONAL CHARGES FOR STRINGING IN SPECIAL TOWERS BEYOND +6 MTR EXTENSION	Route (Km)	38.194				
2.1.2	DOUBLE CIRCUIT ( SIX POWER CONDUCTOR ), ADDITIONAL CHARGES FOR STRINGING NATIONAL HIGHWAY / EHV LINE CROSSING	Route (Km)	1				
2.1.3	DOUBLE CIRCUIT ( SIX POWER CONDUCTOR ), ADDITIONAL CHARGES FOR STRINGING IN SPECIAL TOWERS/MULTICIRCUIT TOWERS/BEYOND +6 MTR EXTENSION	Route (Km)	36.194				
<b>3.0</b>	<b>Erection of OPGW fibre Optic Cable for speech, data &amp; protection</b>						
3.1	Erection of 48Fibre(DWSM)OPGW fibre Optic along with hardwares sand approach cables	Kmtr	38.194				
<b>TOTAL OF ELECTRICAL WORKS PART-A</b>							
<b>PART B</b>	<b>CIVIL WORKS</b>						
<b>1</b>	<b>SURVEY OF LINE &amp; PREPARATION LAND SCHEDULE: Supply of required T&amp;P's, Technical personnel's, labours for conducting</b>						
1.1	Preliminary survey, Detail survey and resurvey (required for avoiding ROW problem) including but not limited to taking of levels, profile plotting, tower spotting ,marking of towers locations at site including showing P&T line, power line, Railway line, river crossing, roads and submission of route map and survey report etc. The P&T lines and railway lines for a minimum distance of 8 kms on either side of alignment shall be clearly indicated.	KM.	38.542				
1.2	Check survey including supply of all labour, T&P as per instruction of Engineer in Charge and as per the approved profile.	KM.	38.194				
1.3	Preparation of land schedule on revenue (if required)maps indicating alignment therein duly authenticated by Revenue Inspector & Tahasildar, enumeration of trees with the help of Forest officer and other prominent features required for alignment of the proposed 132 KV line. Final route to be plotted on 1:50000 topo sheet for approval.Detail GIS (Geographical Information System) of towers to be included.	KM.	38.194				
1.4	Soil Testing in complete shape along with submission of report etc. up to the depth of 7.0 Mtrs.	Per Loc.	5				
<b>2</b>	<b>EXCAVATION WORKS FOR OPEN CAST/SHALLOW TYPE FOUNDATIONS</b>						
2.1	Excavation for following type of soil and rocks and back filling (back filling shall be done in layers of 500mm sprinkling of water and compaction thereafter and disposed of excess quantity of excavated soil at suitable place after back filling), & if required for filling the foundation, borrowed earth/morrum/sand shall be brought for filling and compaction, including supply of sand, all T&P, labour as required for foundation						
2.1.1	Soft/Loose soil	CUM	63330				
2.1.2	Wet soil	CUM	5000				
2.1.3	Partial Submerged soil	CUM	34165				

2.1.4	Fully submerged soil	CUM	11388				
3	<b>FOUNDATION MATERIALS:</b> Supply of all materials like cement, steel, all coarse aggregates, fine aggregates and making foundations of the required above mentioned type towers as per the direction laid down in the technical specification and the direction of the site- in charge						
3.1	<b>PCC(Lean Concrete) in the ratio 1:3:6(Grade M-10)</b>	CUM	2970.00				
3.2	(i) <b>FOR OPENCAST FOUNDATION: (FOR NORMAL TOWER)</b> Providing & laying of RCC work of ratio 1:1.5:3 (Grade M-20) with approved quality stone chips of nominal size 12mm to 20mm in tower foundation and cooping inclusive of cost of mixing, supply of form boxes Chimney & fixing, curing, testing of sample cement concrete cubes & cost of all materials like cement,etc. as per IS.456 & excluding steel. (ii) The cooping height shall be 350mm above the ground level. The surrounding area shall be clear from materials and damage of land if any shall be repaired before measurement and as per requirement, including labours and T&P as per specification in the concrete ratio 1:1.5:3 (Grade M-20.)	CUM	500.00				
3.3	(i) <b>FOR OPENCAST FOUNDATION: (FOR MULTICIRCUIT TOWER)</b> Providing & laying of RCC work of ratio 1:1:2 (Grade M-25) with approved quality stone chips of nominal size 12mm to 20mm in tower foundation and cooping inclusive of cost of mixing, supply of form boxes Chimney & fixing, curing, testing of sample cement concrete cubes & cost of all materials like cement,etc. as per IS.456 & excluding steel. (ii) The cooping height shall be 350mm above the ground level. The surrounding area shall be clear from materials and damage of land if any shall be repaired before measurement and as per requirement, including labours and T&P as per specification in the concrete ratio 1:1:2 (Grade M-25.)	CUM	17000.00				
3.4	Steel of different size (as per design ) with cutting,bending ,binding in position of M.S.Rod for reinforcement of foundation concret of towers (open cast ) including supply of binding wire (With supply of steel rod (TATA/RINL/SAIL make )	MT	1120.00				
4.0	<b>DE-WATERING(FOR OPEN CAST LOCATION)</b>						
4.1	With Supply of all T&P, Fuel, Lubricant & electricity on HP Hour basis.	HP Hour	2250				
5.0	<b>Supply of borrowed earth/morrum for back filling for foundation/revertment works</b>						
5.1	beyond 100 mtr lead	CUM	1400				
6	<b>SHORING &amp; SHUTTERING-</b> Required in wet/submerged or special locations of open cast/shallow type foundations with supply of all materials,T&P and Labour.	SQ.MTR.	29118.000				
7	<b>Head-Loading</b> of all types of foundation-materials, towers, structures, conductors, Insulators, Hard-wares for inaccessible Locations beyond 400 mtrs from the nearest approach road as per the recommendation of site Engineer-In- Charge and approval of the General Manager of Concerned circle.	Per MT/ Per Mtr	55335				
8	<b>WELDING OF TOWER MEMBERS</b>						
8.1	Supply of all materials for continuous welding of bolts & nuts (around the bolts) up to top of tower without cross arm, including welding rods, welding generator machine (diesel engine operator.), application of required zinc rich paints around the welding portion after welding (two coats),fuel,lubricants,T&P and labours and other arrangements etc.	Nos.	617816				
9	<b>REVTMENT: (including Benching) Supply of all materials like cement, Late-rite stone (stone masonry) all type aggregates, labours, &amp; T&amp;P for construction of revetment walls as per requirement to protect the towers, where felt unsafe and as per approved drawing and the direction of Engineer in charge.</b>						
9.1	Excavation in all type of soil including rock & back filling including supply of sand with back filling.	CUM	1380				
9.2	Lean Concrete in the ratio1:3:6(Grade M-10) including supply of sand chips etc.	CUM	228				
9.3	PCC in the ratio 1:2:4(Grade M-15) as above.	CUM	48				
9.4	RR Massonary work in the ratio 1:5.	CUM	732				
10	Supply & painting of black bituminous paint three coats shall be provided up to a height of 500mm above the cooping (Both leg & bracing members)	SQ.MTR.	325				
11	PTCC approval, railway crossing has to be obtained by submitting the required documents to the concerned department through OPTCL. The documents for PTCC clearance & Railway clearance including required drawings etc has to be submitted by the contractor within 5 months of award of contract. Beyond the above period L.D as applicable & the amount shall be deducted as specified in the specification.	LS	1				
<b>TOTAL OF Line (Civil Work)</b>							

	<b>TOTAL OF ERECTION LINE (Electrical Work) &amp; (Civil Work) -Schedule-4-line (to Schedule No. 6 Grand Summary)</b>						
<p style="text-align: right;">Name of Bidder: _____ Signature of Bidder: _____</p> <p>1 Specify currency in accordance with specifications in Bid Data Sheet under ITB 19.1 in Single-Stage Bid, or ITB 34.1 in Two-Stage Bid.</p>							

**ODISHA POWER TRANSMISSION CORPORATION LIMITED**

NAME OF THE WORK:-Construction of 220 kV LILO Line from 220 kV Bhadrak - Balasore D.C line & 220 kV LILO Line from 220 kV Dhamara - Balesore D.C line to 400/220 KV Out Door type GIS S/S,(Ramkrushnapur) Bhadrak. (Approx. Line length-38.194 Km) . in Odisha State of India under PACKAGE-2 Under Japan International Cooperation Agency (JICA)'s ODA Loan.

Loan Agreement No: [ID-P245] - FB No: [CPC/JICA/ICB/02/18-19/.....]- Reference Identification No: [OPTCL/JICA/PKG-2]

**Schedule No. 6. Grand Summary**

NAME OF THE BIDDER		Total Price <sup>1</sup>	
		Foreign	Local
1	Total Schedule No. 1. Plant, Supplied from Abroad (Substation+Line)		
2	Total Schedule No. 2. Plant, Supplied from Within the Employer's Country (substation+Line)		
3	Total Schedule No. 3. Design Services (Not Applicable)		
4	Total Schedule No. 4. Installation and Other Services (substation+Line)		
5	Total Schedule No. 5. Provisional Sums (Not to be considered for Evaluation)		
	Total( to Bid Form)		

Name of Bidder: \_\_\_\_\_  
Signature of Bidder: \_\_\_\_\_

<sup>1</sup> Specify currency in accordance with specifications in Bid Data Sheet under ITB 19.1 in Single-Stage Bidding, or ITB 34.1 in Two-Stage Bidding. Create and use as many columns for Foreign Currency requirement as there are foreign currencies.

**ODISHA POWER TRANSMISSION CORPORATION LIMITED**

NAME OF THE WORK:-Construction of 220 kV LILO Line from 220 kV Bhadrak - Balasore D.C line & 220 kV LILO Line from 220 kV Dhamara - Balesore D.C line to 400/220 KV Out Door type GIS S/S,(Ramkrushnapur) Bhadrak. (Approx. Line length-38.194 Km) . in Odisha State of India under PACKAGE-2 Under Japan International Cooperation Agency (JICA)'s ODA Loan.

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**Schedule No. 7. Recommended Spare Parts**

NAME OF THE BIDDER		Unit	Quantity	Unit Price		Total Price in INR
Sl. No.	DESCRIPTION OF ITEMS SUPPLY OF SPARES FOR THE FOLLOWING EQUIPMENTS. (As per Technical Specification)			CIP (foreign parts)	Ex-Works Price Local Parts	
		<i>(1)</i>	<i>(1)</i>	<i>(2)</i>	<i>(3)</i>	<i>(1) x (2) or (3)</i>
<b>TOTAL</b>						

Name of Bidder: \_\_\_\_\_

Signature of Bidder: \_\_\_\_\_

Note: Recommended Spares shall not be taken in to consideration for evaluation purpose.

## ODISHA POWER TRANSMISSION CORPORATION LIMITED

NAME OF THE WORK:-Construction of 220 kV LILO Line from 220 kV Bhadrak - Balasore D.C line & 220 kV LILO Line from 220 kV Dhamara - Balesore D.C line to 400/220 KV Out Door type GIS S/S,(Ramkrushnapur) Bhadrak. (Approx. Line length-38.194 Km) . in Odisha State of India under PACKAGE-2 Under Japan International Cooperation Agency (JICA)'s ODA Loan.

**Loan Agreement No: [ID-P245] - FB No: [CPC/JICA/ICB/02/18-19/.....]- Reference Identification No: [OPTCL/JICA/PKG-2]**

### Schedule No. 8. Details of Taxes & Duties

<b>NAME OF THE BIDDER</b>				
SI No	Description of Applicable Tax/Levy		Tax @ __%	Total Amount of Taxes /Duty/ Levies
<b>1</b>	Details of Taxes and levies on the direct / bought out transactions between Bidder and ODISHA POWER TRANSMISSION CORPORATION LTD included in the Bid Price above but as may be payable by ODISHA POWER TRANSMISSION CORPORATION LTD (Schedule-1 & 2)			
(i)	TOTAL IGST			
(ii)	TOTAL CGST			
(iii)	TOTAL OGST			
(iv)	TOTAL Any other tax			
	TOTAL OF TAXES AND DUTIES [Sum (i) to (iv)]			
<b>2</b>	Details of Taxes and levies on the direct / bought out transactions between Bidder and ODISHA POWER TRANSMISSION CORPORATION LTD included in the Bid Price above but as may be payable by ODISHA POWER TRANSMISSION CORPORATION LTD (Schedule- 4)			
(i)	TOTAL IGST			
(ii)	TOTAL CGST			
(iii)	TOTAL OGST			
(iv)	TOTAL Any other tax			
	TOTAL OF TAXES AND DUTIES [Sum (i) to (iv)]			
<b>4</b>	F. Total Bid Price: (including Taxes & Duties and other levies)			

Name of Bidder: \_\_\_\_\_

Signature of Bidder: \_\_\_\_\_