	OF THE WORK:-Construction of 220 KV DC LILO Line from	-					
		-					
to 220	) /132 KV Out Door type GIS S/S, Kuakhia. (Approx. Line ler	•	•		PACKAGE-2 UNC	ier Japan Interna	tional Cooperation
			(JICA)'s ODA I		1.1		we al
			/02/18-19/	-		o: [OPTCL/JICA/P	'KG-2]
	Schedule No. 1	. Plant Supp	olied from Abro	oad (Transmission Line	e)		
	NAME OF THE BIDDER						•
					Unit	Price <sup>2</sup>	
ltem	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 Duburi - Paradeep line to 220/132/33 KV Out Door type GIS 5/5, Kuakhia and 132 KV LILO Line from Jajpur road - Kendrapada to 220/132/33KV to 220/132/33 KV Out Door type GIS 5/5, Kuakhia	In Foreign Currency	CIP	Total Price <sup>2</sup>
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	PA TYPE (SUSPENSION ) TOWERS (Nominal unit weight 3.430 MT) (06		N	6.00			
1.1.1	nos) +3 EXTENSION (Nominal unit weight 0.537 MT) (03 nos)		Nos. Nos.	3.00			
1.1.1	+6 EXTENSION (Nominal unit weight 1.349 MT) (0 nos)		Nos.	0.00			
1.1.2	PC TYPE (60 deg ANGLE ) TOWERS (Nominal unit weight6.214 MT) (10		1105.				
	nos)		Nos.	10.00			
1.2.1	+3 EXTENSION (Nominal unit weight 1.119 MT) (0 nos)		Nos.	0.00			
1.2.2	+6 EXTENSION (Nominal unit weight 2.342 MT) (2 nos)		Nos.	2.00			
1.3	OC TYPE (60 deg ANGLE ) TOWERS (Nominal unit weight 9.523 MT) (11 nos)		Nos.	11.00			
1.3.1	+3 EXTENSION (Nominal unit weight 1.436 MT) (0 nos)		Nos.	0.00			
1.3.1	+6 EXTENSION (Nominal unit weight 2.600 MT) (4 nos)		Nos.	4.00			
1.3.3	+15 EXTENSION (Nominal unit weight 8.55 MT) (3 nos)		Nos.	3.00			
1.3.4	MA TYPE (SUSPENSION ) MULTICIRCUIT TOWERS (Nominal unit						
	weight 15.154 MT) (25 nos)		Nos.	25.00			
1.4	+3 EXTENSION (Nominal unit weight 1.667 MT) (4 nos)		Nos.	4.00			
1.4.1 1.5	+6 EXTENSION (Nominal unit weight 2.903 MT) (4 nos) MB TYPE (30 deg ANGLE ) MULTICIRCUIT TOWERS (Nominal unit		Nos.	4.00			
1.5	weight 24.375 MT) (10 nos)		Nos.	10.00			
1.5.1	+3 EXTENSION (Nominal unit weight 2.690 MT) (2 Nos)	<u> </u>	Nos.	2.00			

**ODISHA POWER TRANSMISSION CORPORATION LIMITED** 

1.5.0	(FVMENCION(N + 1)) + (1 + 4.475 Mm) (2))	N	0.00		
1.5.2	+6 EXTENSION (Nominal unit weight 4.475 MT) (2 nos)	Nos.	2.00	_	
1.5.3	MC TYPE (60 deg ANGLE ) MULTICIRCUIT TOWERS (Nominal unit				
	weight 31.088 MT) (16 nos)	Nos.	16.00	_	
1.5.4	+3 EXTENSION (Nominal unit weight 3.596 MT) (4 nos)	Nos.	4.00		
1.5.5	+6 EXTENSION (Nominal unit weight 5.944 MT) (4 nos)	Nos.	4.00		
1.6	+9 EXTENSION (Nominal unit weight 8.292 MT) (2 nos)	Nos.	2.00		
1.7	+15 EXTENSION (Nominal unit weight 11.324 MT) (4 nos)	Nos.	4.00		
2	TEMPLATES				
2.1	PA (Nominal unit weight 0.645 MT)(1 Nos.)	Nos.	1.0		
2.2	PC (Nominal unit weight 0.904 MT)(2 Nos.)	Nos.	2.00		
2.3	OC (Nominal unit weight 0.963 MT)(1 Nos.)	Nos.	1.00		
2.4	OC+15 (Nominal unit weight 2.073 MT)(1 Nos.)	Nos.	1.00		
2.5	MA (Nominal unit weight 1.030 MT)(3 Nos.)	Nos.	3.00		
2.6	MB (Nominal unit weight 1.175 MT)(2 Nos.)	Nos.	2.00	-	
2.7	MC (Nominal unit weight 1.308 MT)(2 Nos.)	Nos.	2.00	-	
3	WEIGHT OF THE STRUCTURES HT (including Tower stubs, & Foundation Nut	МТ			
	and Bolts)		649.554		
3.10	WEIGHT OF THE STRUCTURES MS (INCLUDING WEIGHT OF TEMPLATE)	МТ			
			849.671		
3.11	Weight of different type G.I Nuts and Bolts	МТ	74.961		
4	Supply of the following tower accessories as per technical specification				
	and as directed by the engineer in charge.				
4.1	EARTHING DEVICE	Nos.	94		
4.2	DANGER BOARD	Nos.	78		
4.3	NUMBER PLATE	Nos.	78		
4.4	PHASE PLATE	Nos.	774		
4.5	BIRD GUARD	Nos.	336		
4.6	ANTICLIMBING DEVICE	Nos.	78		
4.7	CIRCUIT PLATE	Nos.	258		
5	Supply of following POWER CONDUCTORS ( LOW LOS TYPE )in the				
	proposed 132 kV line and 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.				
5.1	LL-ACSR PANTHER 240 mm (Aluminium clad/Galvanise steel core		122		
	type) power coductor	Km	122		
5.2	LL-ACSR ZEBRA 490mm(Aluminium clad/Galvanise steel core		104		
	type) power coductor	Km	104		

6	POWER CONDUCTOR ACESSORIES				
6.1	For LL-ACSR PANTHER 240 mm				
6.1.1	VIBRATION DAMPER	Nos.	996		
6.1.2	MID SPAN JOINT	Set	50	1	
6.1.3	REPAIR SLEEVE	Set	50		
6.1.4	PG CLAMP	Set	50		
6.2	For LL-ACSR ZEBRA 490mm				
6.2.1	VIBRATION DAMPER	Nos.	744		
6.2.2	MID SPAN JOINT	Set	50		
6.2.3	REPAIR SLEEVE	Set	50		
6.2.4	PG CLAMP	Set	50		
7	OPGW fibre Optic Cable & Hardwares		50		
7.1	48 Fibre(DWSM)OPGW Fibre Optic Cable	Km.	21		
7.2	OPGW Hardware set like Suspension Assembly, Tension Assembly(Dead	Kill.	21		
	end Assembly, Pass through Assembly) ,Vibration Damper,Down Lead Clamp Assembly for 24/48 Fibre(DWSM) OPGW,Joint Box etc.	Km.	21		
8	Supply of the following Long Rod porcelain insulators as per the technical specification and as per the instruction of the Engineer in charge.				
8.1	90 KN Long Rod Porcelain Insulator for 132 KV	Nos.	230		
8.2	120 KN Long Rod Porcelain Insulator for 132 KV	Nos.	564		
8.3	90 KN Long Rod Porcelain Insulator for 220 KV (2 Nos. in 1 SET)	SET	192		
8.4			500		
9	160 KN Long Rod Porcelain Insulator for 220 KV (2 Nos. in 1 SET)         Supply of the following hard ware fittings as per the technical specification.	SET			
9.1	For LL-ACSR PANTHER 240 mm				
9.1	Single suspension Hard wares fittings.(AGS type along with PA ROD)				
9.1.1	suitable for 90 KN Long Rod Porcelain insulator.	Nos.	150		
9.1.2	Double suspension Hard wares fittings.(AGS type along with PA ROD) suitable for 90 KN Long Rod Porcelain insulator.	Nos.	36		
9.1.3	Single tension Hard wares fittings suitable for 120 KN Long Rod Porcelain insulator.	Nos.	380		
9.1.4	Double tension Hard wares fittings suitable for 120 KN Long Rod Porcelain insulator.	Nos.	60		
9.1.5	Hanger	Nos.	186	1	1
9.1.6	"D" Shackle	Nos.	30		
9.2	For LL-ACSR ZEBRA 490mm				
9.2.1	Single suspension Hard wares fittings.(AGS type along with PA ROD) suitable for 90 KN Long Rod Porcelain insulator.	Nos.	120		
9.2.2	Double suspension Hard wares fittings.(AGS type along with PA ROD) suitable for 90 KN Long Rod Porcelain insulator.	Nos.	36		
9.2.3	Single tension Hard wares fittings suitable for 160 KN Long Rod Porcelain insulator.	Nos.	492		
9.2.4	Double tension Hard wares fittings suitable for 160 KN Long Rod		60		
0 2 5	Porcelain insulator.	Nos.	457		
9.2.5	Hanger	Nos.	156		
9.2.6	"D" Shackle	Nos.	30		

	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 <sup>2</sup> Specify currency in accordance with specifications in Bid Data Sheet under ITB 19 Origin Declaration Form			d use as many columns '	for Unit Price and Total				
Item	Description	Code	Country						

	ODISHA POWER TRANSMISSION CORP	ORATION I	LIMITED				
NAM	E OF THE WORK:-Construction of 220 KV DC LILO Line from existing 220 KV De	C NEW DUBU	RI-PARADEEP Lin	e & 132 KV DC JA	JPUR ROAD-		
KENDRAP	ARA line to 220 /132 KV Out Door type GIS S/S, Kuakhia. (Approx. Line length-	20 Km) . in O	disha State of Ind	ia under PACKAC	GE-2 Under Japan		
	International Cooperation Agency (JIC	A)'s ODA Loai	n.				
	Loan Agreement No: [ID-P245] - FB No: [CPC/JICA/ICB/02/18-19/]-						
	o. 2. Plant Supplied from Within the Employer's Country (Transmission Line)				-		
	NAME OF THE BIDDER		c e S				
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-1-Line) SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS (As per Technical Specification)	220 KV LILO Line from 220 KV 220 KV LILO Line from 220 KV Duburi - Paradeep line to 220/132/33 KV Out Door type GIS 5/5, Kuakhia and 132 KV LILO Line from Jajpur road - kendrapada to 220/132/33 KV OL 220/132/33 KV		Unit Price <sup>2</sup>	Total Price <sup>2</sup>		
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					
1.1	PA TYPE (SUSPENSION ) TOWERS (Nominal unit weight 3.430 MT) (06 nos)	Nos.	6.00				
1.1.1	+3 EXTENSION (Nominal unit weight 0.537 MT) (03 nos)	Nos.	3.00				
1.1.2	+6 EXTENSION (Nominal unit weight 1.349 MT) (0 nos)	Nos.	0.00				
1.2	PC TYPE (60 deg ANGLE ) TOWERS (Nominal unit weight6.214 MT) (10 nos)	Nos.	10.00				
1.2.1	+3 EXTENSION (Nominal unit weight 1.119 MT) (0 nos)	Nos.	0.00				
1.2.2	+6 EXTENSION (Nominal unit weight 2.342 MT) (2 nos)	Nos.	2.00				
1.3	OC TYPE (60 deg ANGLE ) TOWERS (Nominal unit weight 9.523 MT) (11 nos)	Nos.	11.00				
1.3.1	+3 EXTENSION (Nominal unit weight 1.436 MT) (0 nos)	Nos.	0.00				
1.3.2	+6 EXTENSION (Nominal unit weight 2.600 MT) (4 nos)	Nos.	4.00				
1.3.3	+15 EXTENSION (Nominal unit weight 8.55 MT) (3 nos)	Nos.	3.00				
1.3.4	MA TYPE (SUSPENSION ) MULTICIRCUIT TOWERS (Nominal unit weight 15.154 MT) (25 nos)	Nos.	25.00				
1.4	+3 EXTENSION (Nominal unit weight 1.667 MT) (4 nos)	Nos.	4.00				
1.4.1	+6 EXTENSION (Nominal unit weight 2.903 MT) (4 nos)	Nos.	4.00				
1.5	MB TYPE (30 deg ANGLE ) MULTICIRCUIT TOWERS (Nominal unit weight 24.375 MT) (10 nos)	Nos.	10.00				
1.5.1	+3 EXTENSION (Nominal unit weight 2.690 MT) (2 Nos)	Nos.	2.00				
1.5.2	+6 EXTENSION (Nominal unit weight 4.475 MT) (2 nos)	Nos.	2.00				
1.5.3	MC TYPE (60 deg ANGLE ) MULTICIRCUIT TOWERS (Nominal unit weight 31.088 MT) (16 nos)	Nos.	16.00				
1.5.4	+3 EXTENSION (Nominal unit weight 3.596 MT) (4 nos)	Nos.	4.00				
1.5.5	+6 EXTENSION (Nominal unit weight 5.944 MT) (4 nos)	Nos.	4.00				
1.6	+9 EXTENSION (Nominal unit weight 8.292 MT) (2 nos)	Nos.	2.00				

1.7	+15 EXTENSION (Nominal unit weight 11.324 MT) (4 nos)	Nos.	4.00		
2	TEMPLATES				
2.1	PA (Nominal unit weight 0.645 MT)(1 Nos.)	Nos.	1.0		
2.2	PC (Nominal unit weight 0.904 MT)(2 Nos.)	Nos.	2.00	-	
2.3	OC (Nominal unit weight 0.963 MT)(1 Nos.)	Nos.	1.00	-	
2.4	OC+15 (Nominal unit weight 2.073 MT)(1 Nos.)	Nos.	1.00	-	
2.5	MA (Nominal unit weight 1.030 MT)(3 Nos.)	Nos.	3.00	-	
2.6	MB (Nominal unit weight 1.175 MT)(2 Nos.)	Nos.	2.00	-	
2.7	MC (Nominal unit weight 1.308 MT)(2 Nos.)	Nos.	2.00	-	
3	WEIGHT OF THE STRUCTURES HT (including Tower stubs, & Foundation Nut and Bolts)	МТ	649.554		
3.10	WEIGHT OF THE STRUCTURES MS (INCLUDING WEIGHT OF TEMPLATE)	МТ	849.671		
3.11	Weight of different type G.I Nuts and Bolts	МТ	74.961		
4	Supply of the following tower accessories as per technical specification and as directed by the				
	engineer in charge.				
4.1	EARTHING DEVICE	Nos.	94		
4.2	DANGER BOARD	Nos.	78		
4.3	NUMBER PLATE	Nos.	78		
4.4	PHASE PLATE	Nos.	774		
4.5	BIRD GUARD	Nos.	336		
4.6	ANTICLIMBING DEVICE	Nos.	78		
4.7	CIRCUIT PLATE	Nos.	258		
5	Supply of following POWER CONDUCTORS ( LOW LOS TYPE )in the proposed 132 kV line and				
	220 KV line with provision for 1.5 % sag and wastage as per the technical specification and as				
5.1	per the instruction of the engineer in charge.				
5.1	LL-ACSR PANTHER 240 mm (Aluminium clad/Galvanise steel core type) power coductor	Km	122		
5.2			104		
	LL-ACSR ZEBRA 490mm(Aluminium clad/Galvanise steel core type) power coductor	Km	104		
6	POWER CONDUCTOR ACESSORIES				
6.1	For LL-ACSR PANTHER 240 mm				
6.1.1	VIBRATION DAMPER	Nos.	996		
6.1.2	MID SPAN JOINT	Set	50		
6.1.3	REPAIR SLEEVE	Set	50		
6.1.4	PG CLAMP	Set	50		
6.2	For LL-ACSR ZEBRA 490mm				
6.2.1	VIBRATION DAMPER	Nos.	744		
6.2.2	MID SPAN JOINT	Set	50		
6.2.3	REPAIR SLEEVE	Set	50		
6.2.4	PG CLAMP	Set	50		
7	OPGW fibre Optic Cable & Hardwares				
7.1	48 Fibre(DWSM)OPGW Fibre Optic Cable	Km.	21		
7.2	OPGW Hardware set like Suspension Assembly, Tension Assembly (Dead end Assembly, Pass through Assembly), Vibration Damper, Down Lead Clamp Assembly for 24/48 Fibre (DWSM)		21		
8	OPGW, Joint Box etc. Supply of the following Long Rod porcelain insulators as per the technical specification	Km.			
	and as per the instruction of the Engineer in charge.				

8.1	90 KN Long Rod Porcelain Insulator for 132 KV	Nos.	230		
8.2	120 KN Long Rod Porcelain Insulator for 132 KV	Nos.	564		
8.3	90 KN Long Rod Porcelain Insulator for 220 KV (2 Nos. in 1 SET)	SET	192		
8.4	160 KN Long Rod Porcelain Insulator for 220 KV (2 Nos. in 1 SET)	SET	500		
9	Supply of the following hard ware fittings as per the technical specification.				
9.1	For LL-ACSR PANTHER 240 mm				
9.1.1	Single suspension Hard wares fittings.(AGS type along with PA ROD) suitable for 90 KN Long Rod Porcelain insulator.	Nos.	150		
9.1.2	Double suspension Hard wares fittings.(AGS type along with PA ROD) suitable for 90 KN Long Rod Porcelain insulator.	Nos.	36		
9.1.3	Single tension Hard wares fittings suitable for 120 KN Long Rod Porcelain insulator.	Nos.	380		
9.1.4	Double tension Hard wares fittings suitable for 120 KN Long Rod Porcelain insulator.	Nos.	60		
9.1.5	Hanger	Nos.	186		
9.1.6	"D" Shackle	Nos.	30		
9.2	For LL-ACSR ZEBRA 490mm				
9.2.1	Single suspension Hard wares fittings.(AGS type along with PA ROD) suitable for 90 KN Long Rod Porcelain insulator.	Nos.	120		
9.2.2	Double suspension Hard wares fittings.(AGS type along with PA ROD) suitable for 90 KN Long Rod Porcelain insulator.	Nos.	36		
9.2.3	Single tension Hard wares fittings suitable for 160 KN Long Rod Porcelain insulator.	Nos.	492		
9.2.4	Double tension Hard wares fittings suitable for 160 KN Long Rod Porcelain insulator.	Nos.	60		
9.2.5	Hanger	Nos.	156		
9.2.6	"D" Shackle	Nos.	30		
OTAL OF Se	chedule-2 Line To Schedule-6 Grand Summary				
	<sup>1</sup> Prices of Items quoted in Schedule No.1 shall not be quoted again in Schedule No. 2 and shall h	ave a remark agains	st the said row "Ouoted i	in Schedule No1".	

	ME OF THE WORK:-Construction of 220 KV DC LILO Line from exist	ing 220	KV DC NEW [	DUBURI-PARA	DEEP Line & 1		
KENDR	APARA line to 220 /132 KV Out Door type GIS S/S, Kuakhia. (Approx International Cooperation		•		te of India un	der PACKAGE-2	' Under Japan
	Loan Agreement No: [ID-P245] - FB No: [CPC/JICA/ICB/02/	18-19/	]- Ref	ference Identifi	cation No: [OP	TCL/JICA/PKO	G-2]
	Schedule No. 4. Installation and	Other S	ervices (Trans	mission line)			
	NAME OF THE BIDDER						
			uri - rid S	Unit	Price <sup>1</sup>	Total	Price <sup>1</sup>
Sl. No.	DESCRIPTION OF ITEMS(SCHEDULE-4-line) ERECTION,TESTING & COMMISSIONING OF FOLLOWING EQUIPMENTS ALONG WITH CIVIL WORKS (As per Technical Specification)	UNIT	220 KV LLLO Line from 220 KV Duburi - Paradeep line to 220/132/33 KV Grid S/S, Kuakhia Out Door type GIS S/S and 132 KV LLO Line from Jajpur road - Kendrapada	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion
			1	2	3	(1x2)	(1x3)
	ELECTRICAL WORKS						
1.0	<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. 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.						
1.2	PA TYPE (SUSPENSION ) TOWERS (Nominal unit weight 2.993 MT) (06 nos)	Nos.	6.00				
1.2.1	+3 EXTENSION (Nominal unit weight 0.537 MT) (03 nos)	Nos.	3.00				
1.2.2	+6 EXTENSION (Nominal unit weight 1.349 MT) (0 nos)	Nos.	0.00				
1.3	PC TYPE (60 deg ANGLE ) TOWERS (Nominal unit weight 5.309 MT) (10 nos)	Nos.	10.00				
1.3.1	+3 EXTENSION (Nominal unit weight 1.119 MT) (0 nos)	Nos.	0.00				
1.3.2	+6 EXTENSION (Nominal unit weight 2.342 MT) (2 nos)	Nos.	2.00				
	OC TYPE (60 deg ANGLE ) TOWERS (Nominal unit weight 9.099 MT) (11 nos)						
1.6	$(2) EVERNOLON (N_{every}) = 1 = (k_{every}) = (k_{every}$	Nos.	11.00	-			
1.6.1 1.6.2	+3 EXTENSION (Nominal unit weight 1.436 MT) (0 nos) +6 EXTENSION (Nominal unit weight 2.600 MT) (4 nos)	Nos. Nos.	0.00 4.00	-			
1.6.2	+6 EXTENSION (Nominal unit weight 2.600 MT) (4 hos) +15 EXTENSION (Nominal unit weight 8.55 MT) (3 nos)	Nos.	4.00	-			
	MA TYPE (SUSPENSION ) MULTICIRCUIT TOWERS (Nominal unit weight 14.272						
1.7	MT) (25 nos)	Nos.	25.00				
1.7.1	+3 EXTENSION (Nominal unit weight 1.667 MT) (4 nos)	Nos.	4.00	-			
1.7.2	+6 EXTENSION (Nominal unit weight 2.903 MT) (4 nos) MB TYPE (30 deg ANGLE ) MULTICIRCUIT TOWERS (Nominal unit weight 23.048	Nos.	4.00				
1.8	MT) (10 nos)	Nos.	10.00				
1.8.1	+3 EXTENSION (Nominal unit weight 2.690 MT) (2 Nos)	Nos.	2.00				
1.8.2	+6 EXTENSION (Nominal unit weight 4.475 MT) (2 nos)	Nos.	2.00				

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	MC TYPE (60 deg ANGLE ) MULTICIRCUIT TOWERS (Nominal unit weight 28.962					
1.0		Neg	16.00			
1.9	MT) (16 nos)	Nos.	16.00 4.00			
1.9.1	+3 EXTENSION (Nominal unit weight 3.596 MT) (4 nos)	Nos.				
1.9.2	+6 EXTENSION (Nominal unit weight 5.944 MT) (4 nos)	Nos.	4.00			
1.9.3	+9 EXTENSION (Nominal unit weight 8.292 MT) (2 nos)	Nos.	2.00			
1.9.4	+15 EXTENSION (Nominal unit weight 11.324 MT) (4 nos) WEIGHT OF THE STRUCTURES (including Tower stubs, & Foundation Nut and Bolts)	Nos.	4.00	I		
1.3.9		MT	1396.804		-	
1.4	Weight of different type G.I Nuts and Bolts	MT	69.840			
1.5	Fixing of Templates & Stub					
1.5.1	PA (Nominal unit weight 0.645 + 0.259 MT)(6 Nos.)	MT	5.376			
1.5.3	PC (Nominal unit weight 0.904 + 0.608 MT)(10 Nos.)	MT	15.12			
1.5.6	OC (Nominal unit weight 0.963 + 0.773 MT)(8 Nos.)	MT	13.888			
1.5.6.1	0C+15 (Nominal unit weight 2.073 + 1.068 MT)(3 Nos.)	MT	9.423		-	
1.5.7	MA (Nominal unit weight 1.030 + 0.882 MT)(25 Nos.)	MT	47.8			
1.5.8	MB (Nominal unit weight 1.175 + 1.327 MT)(10 Nos.)	MT	25.02			
1.5.9	MC (Nominal unit weight 1.308 + 2.126 MT)(16 Nos.)	MT	54.944			
1.6	Erection of the following tower accessories as per technical specification and					
	as directed by the engineer-in charge.					
1.6.1	EARTHING DEVICE	Nos.	94			
1.6.2	DANGER BOARD	Nos.	78			
1.6.3	NUMBER PLATE	Nos.	78			
1.6.4	PHASE PLATE	Nos.	774			
1.6.5	BIRD GUARD	Nos.	336			
1.6.6	ANTICLIMBING DEVICE	Nos.	78			
1.6.7	CIRCUIT PLATE	Nos.	258			
2	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	STRINGING OF LL-ACSR PANTHER CONDUCTOR	17				
2.1.1	DOUBLE CIRCUIT (SIX POWER CONDCTOR )	Km	20			
2.1.2	DOUBLE CIRCUIT (SIX POWER CONDCTOR ), ADDITIONAL CHARGES FOR STRINGING RIVER CROSSING	Km	2			
2.1.3	DOUBLE CIRCUIT (SIX POWER CONDCTOR ), ADDITIONAL CHARGES FOR STRINGING IN SPECIAL TOWERS/MULTICIRCUIT TOWERS/BEYOND +6 MTR EXTENSION	Km	14			
2.2	STRINGING OF LL- ACSR ZEBRA CONDUCTOR					
2.2.1	DOUBLE CIRCUIT ( SIX POWER CONDICTOR ),	Km	19			
	DOUBLE CIRCUIT ( SIX POWER CONDICION ), ADDITIONAL CHARGES FOR STRINGING RIVER				1	
2.2.2	CROSSING	Km	1.5			
2.2.3	DOUBLE CIRCUIT ( SIX POWER CONDCTOR ), ADDITIONAL CHARGES FOR STRINGING IN SPECIAL TOWERS/MULTICIRCUIT TOWERS/BEYOND +6 MTR EXTENSION	Km	14			
3	Stringing of OPGW fibre Optic Cable with all its accessoris &hardware fittings					
	Erection of 48Fibre(DWSM)OPGW fibre Optic along with hardwares sand approach					
3.1	cables	Km.	20			
PART-B	CIVIL WORKS					
1	SURVEY OF LINE & PREPARATION LAND SCHEDULE: Supply of required T&P's, Technical personnel's, labours for conducting					
1.1	• • • •					
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	KM.	23			
	map and survey report etc. The P&T lines and railway lines for a minimum distance of 8 kms on	11141.	23			
	either side of alignment shall be clearly indicated.					
1						

				1	1	·
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.	23			
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.		23			
1.4	Soil Testing in complete shape along with submission of report etc. up to the depth of 7.0 Mtrs.	Per Loc.	5			
1.4.1	upto 15 mtrs	Per Loc.	10			
1.4.2	upto 30 mtrs	Per Loc.	5			
2	EXCAVATION WORKS FOR OPEN CAST/SHALLOW TYPE FOUNDATIONS					
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	5000			
2.1.2	Wet soil	CUM	2000			
2.1.3	Partial Submerged soil	CUM	3500			
2.1.4	Fully submerged soil	CUM	1500			
3	FOUNDATION MATERIALS: 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	PCC(Lean Concrete) in the ratio 1:3:6(Grade M-10)	CUM	500			
3.2	(i) FOR OPENCAST FOUNDATION: (FOR DOUBLE CIRCUIT TOWER) 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 Chinney & fixing, curing, testing of sample cement concrete cubes & cost of all materials like cement, etc as per 1S.456.8 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			
3.3	(i) FOR OPENCAST FOUNDATION: (FOR DOUBLE CIRCUIT TOWER) Providing & laying of RCC work of ratio 11:2 (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 Chinney & fixing, curing, testing of sample cement concrete cubes & cost of all materials like cement, etc as per 1S.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	1500			
3.4	Steel of different size (as per design ) with cutting, bending , binding in position of M.S.Rod for reinfocement of foundation concret of towers (open cast ) including supply of binding wire (With supply of steel rod (TATA/RINL/SAIL make )	MT	100			
4.0	DE-WATERING(FOR OPEN CAST LOCATION)					
4.1	With Supply of all T&P, Fuel, Lubricant & electricity on HP Hour basis.	HP Hour	500			
5	PILE FOUNDATION, PILE RISER, CAP & TIE BEAM					
5.1	Pile foundation under reemed Boring for under-reemed cast in situ piling with bentinite showing for stabilisation of bore					
5.1.1	500mm	Mtrs	4800			
5.2	Boring by DMC Method					

5.2.1	500mm	Mtrs	1000			
5.2.2	1000mm	Mtrs	300			
5.3	Supply of all materials like cement ,steel, all coarse aggregates,labours , T&P & making pile foundation as per specification in R.C.C: 1:1.5:3(Grade M20) (Without cost of steel)	CUM	1400			
5.4	Steel of different size (as per design ) with cutting,bending ,binding in position of M.S.Rod for reinfocement of foundation concret of towers ( Under reem Pile ) including supply of binding wire (With supply of steel rod (TATA/RINL/SAIL make )	МТ	100			
5.5	Pile riser (if required) ,cap ,tie beam with R.C.C:1:1.5:3(Grade M-20), including supply of all materials like cement ,coarse, fine aggregates ,shuttering t&p, labours,dewatering ,proper curing of the foundation /concrete as per technical specification (Without cost of steel)		2500			
5.6	Steel of different size (as per design ) with cutting, bending , binding in position of M.S.Rod for reinfocement of foundation concret of towers ( pile riser & capping ) including supply of binding wire (With supply of steel rod (TATA/RINL/SAIL make )	МТ	175			
5.0	Supply of borrowed earth/morrum for back filling for foundation/revertment works					
5.1	beyond 100 mtr lead	CUM	1400			
6	SHORING & SHUTTERING-Required in wet/submerged or special locations of open cast/shallow type foundations with supply of all materials,T&P and Labour.	SQ.MTR.	2500			
7	Head-Loading 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	20000			
8	WELDING OF TOWER MEMBERS					
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.	300000			
9	REVETMENT: (including Benching) Supply of all materials like cement, Late-rite stone (stone masonry) all type aggregates, labours, & T&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.					
9.1	Excavation in all type of soil including rock & back filling including supply of sand with back filling.	СИМ	460			
9.2	Lean Concrete in the ratio1:3:6(Grade M-10) including supply of sand chips etc.	СИМ	76			
9.3	PCC in the ratio 1:2:4(Grade M-15) as above.	CUM	16			
9.4	RR Massonary work in the ratio 1:5.	CUM	244			
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.	5000			
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			
	TOTAL OF ERECTION LINE (Electrical Work) & (Civil Work) -Schedule-4-line (to Schedule No. 6 Grand Summary)					
1	Specify currency in accordance with specifications in Bid Data Sheet under ITB 19.1 in Single-St	and Did on 1	TD 24 1 in Two 84	Signature	of Bidder: e of Bidder:	 

## **ODISHA POWER TRANSMISSION CORPORATION LIMITED**

NAME OF THE WORK:-Construction of 220 KV DC LILO Line from existing 220 KV DC NEW DUBURI-PARADEEP Line & 132 KV DC JAJPUR ROAD-KENDRAPARA line to 220 /132 KV Out Door type GIS S/S, Kuakhia. (Approx. Line length-20 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		
		Тс	otal Price <sup>1</sup>
ltem	Description	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 DC LILO Line from existing 220 KV DC NEW DUBURI-PARADEEP Line & 132 KV DC JAJPUR ROAD-KENDRAPARA line to 220/132									
KV Out Door type GIS S/S, Kuakhia. (Approx. Line length-20 Km). in Odisha State of India under PACKAGE-2 Under Japan International Cooperation Agency (JICA)'s ODA									
Loan Agreement No: [ID-P245] - FB No: [CPC/JICA/ICB/02/18-19/]- Reference Identification No: [OPTCL/JICA/PKG-2]									
Schedule	No. 7. Recommended Spare Parts	[			<u></u>				
NAME OF THE BIDDER									
Sl. No.	DESCRIPTION OF ITEMS	Unit	Quantity	Unit	Price	Total Price in INR			
	SUPPLY OF SPARES FOR THE FOLLOWING EQUIPMENTS. (As per Technical Specification)			CIP (foreign parts)	Ex-Works Price Local Parts				
		(1)	(1)	(2)	(3)	(1) x (2) or (3)			
					+				
					<u> </u>				
					<u> </u>				
	TOTAL				+				
		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 DC LILO Line from existing 220 KV DC NEW DUBURI-PARADEEP Line & 132 KV DC JAJPUR ROAD-								
KENDRAPARA line to 220 /132 KV Out Door type GIS S/S, Kuakhia. (Approx. Line length-20 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								
	NAME OF THE BIDDER							
SI No	Description of Applicable Tax/Levy		Tax @%	Total Amount of Taxes /Duty/ Levies				
1	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 (Schedue-1 & 2)							
(i)	TOTAL IGST							
(ii)	TOTAL CGST							
(111)	TOTAL OGST							
(iv)	TOTAL Any other tax							
	TOTAL OF TAXES AND DUTIES [Sum (i) to (iv)							
2	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 (Schedue- 4)							
(i)	TOTAL IGST							
(ii)	TOTAL CGST							
(111)	TOTAL OGST							
(iv)	TOTAL Any other tax							
	TOTAL OF TAXES AND DUTIES [Sum (i) to (iv)							
4	F. Total Bid Price: (including Taxes & Duties and other levies)							
			of Bidder:					