FAYETTEVILLE PUBLIC WORKS COMMISSION

PWC2122031 - 230 / 66KV AUTO TRANSFORMERS 134.4 / 179.21 224 MVA AT 65C BID OPENING: FBRUARY 17, 2022 AT 2:00PM

	220 Glade View Dr.,		Siemens Energy, Inc 8841 Wadford Dr., Raleigh NC, 27616	
Bid Bond	X	Х	Х	
Manufacturer	Virginia - Georgia transformer	GE PROLEC	Siemens Energy, Inc	
Type Or Model:	230/66kV Autotransformer	Three Phase, Oil Immersed, Autotransformer 120/160/200 MVA	N/A	
Location or Manufacturing Facility:	Rincon, GA	Apodaca, Nuevo Leon, Mexico	Guanajuato, Mexico	
Nearest Repair Facility:	Rincon, GA	N/A	N/A	
Percent of Failure of last 100 power transformers at the factory testing:	N/A	N/A	2.6% (factory testing) y 0.9% (in field)	
Percent of Failure of last 100 power transformers after installed in field:	N/A	N/A	2.6% (factory testing) y 0.9% (in field)	
Other Utilities Purchasing Recent Units of Same Design:	N/A	N/A	Pacific Gas & Electric, Avista, First Energy	
North Carolina Sales Tax	\$ 172,790.66	\$ 159,621.00	N/A	
Total Unit Cost	\$ 2,641,228.66	\$ 2,280,300.00	\$ 2,686,700.00	

[MAXIMUM GUARANTEED LOSSES					
	SCHEDULES 1 (1)					
	kW	kW	kW	kW	kW	kW
Maximum Guaranteed no-load kW losses, 100% Voltage, 75C, 120 MVA (3)	52.0	52.0	Included in proposal	Included in proposal	49	N/A
Maximum Guaranteed load kW losses, (not total osses) at 120 MVA (3)	208.0	208.0	Included in proposal	Included in proposal	188	N/A
Maximum guaranteed Total kW losses, at 120 MVA, 75C(3)	260.0	260.0	Included in proposal	Included in proposal	237	N/A
Auxiliary kW losses, first stage cooling	10.0	10.0	Included in proposal	Included in proposal	6.5	N/A
Auxiliary kW losses, second stage cooling	10.0	10.0	Included in proposal	Included in proposal	13	N/A
Impedance%	10.08%		Included in proposal		10.08% @ 134.4MVA	

	DELIVERY (DAYS*)					
Approval Drawings	56-70 Days ARO 24-26 Weeks 14 Weeks ARO					
Final Drawings	46-48 weeks ARO N/A 16 Weeks					
Delivery	48-50 weeks ARO	70-74 Weeks	10-12 Months ARO			

FAYETTEVILLE PUBLIC WORKS COMMISSION

PWC2122031 - 230 / 66KV AUTO TRANSFORMERS 134.4 / 179.21 224 MVA AT 65C BID OPENING: FBRUARY 17, 2022 AT 2:00PM

			Delta Star, Inc Delta Star Transformers Inc. 3550 Mayflower Drive	
	3 ,		Lynchburg, VA 24501	
Bid Bond	х	x	Х	
Manufacturer	WEG Transformers USA	HICO AMERICA	Delta Star, Inc.	
Type Or Model:	N/A	Transformer	Auto Transformer	
Location or Manufacturing Facility:	Huehuetoca, Mexico	Memphis, TN	Lynchburg, VA	
Nearest Repair Facility:	Huehuetoca, Mexico	Memphis, TN	Lynchburg, VA	
Percent of Failure of last 100 power transformers:	3.5%	0%	4.00%	
Percent of Failure of last 100 power transformers after installed in field:	0%	0%	0.0%	
Other Utilities Purchasing Recent Units of Same Design:	Included in proposal	America Electric Power	Included in proposal	
North Carolina Sales Tax	\$ 189,572.00	\$ 194,817.00	N/A	
Total Unit Cost	\$ 2,897,747.00 (includes freight, offload,& field service)	1 .	\$ 4,267,806.00	

	MAXIMUM GUARANTEED LOSSES					
	SCHEDULES 1 (1)					
	kW	kW	kW	kW	kW	kW *at 134.4 MVA 85C
Maximum Guaranteed no-load kW losses, 100% Voltage, 75C, 120MVA (3)	44.0	N/A	68.5	N/A	48.8	48.8
Maximum Guaranteed load kW losses, (not total losses) at 120MVA (3)	182.0	N/A	134.4	N/A	171	218.7
Maximum guaranteed Total kW losses, at 120MVA, 75C(3)	26.0	N/A	202.9	N/A	219.8	367.5
Auxiliary kW losses, first stage cooling	5.0	N/A	4	N/A	5.25	5.25
Auxiliary kW losses, second stage cooling	10.00	N/A	8	N/A	10.5	10.5
Impedance%	9% @ at base 120MVA		10%		10.08% - At 134.4 MVA (section 6.5)	

	DELIVERY (DAYS*)					
Approval Drawings	90-105 20 weeks 98-112					
Final Drawings	26 weeks ARO TBD At the time of shipment					
Delivery	June 2024 (Min lead time 56 weeks ARO) by June 30, 2024 150-160 weeks					

PWC2122031 - 230 / 66KV AUTO TRANSFORMERS 134.4 / 179.21 224 MVA AT 65C BID OPENING: FBRUARY 17, 2022 AT 2:00PM

Hyundai Power Transformer Inc. Jiangsu Huapeng Transformer Co., Ltd. DBA JSHP Transformer Private Company 230/66/13.8kV, 224/200/160/120 MVA Auto Transformer 230/66/13.8kV, 224/200/160/120 MVA Auto Private Company 215 Folmar Pkwy, Montgomery, AL 36105 Percent of Failure of last 100 power transformers at the sactory testing: Percent of Failure of last 100 power transformers after Installed in field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure of last 100 power transformers after Installed in Field: Percent of Failure	1 11 02222202 200 , 00 11 1	71010 111/11101 0111111110 10 1111 / 17 512		
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Manufacturer Hyundai Power Transformer Inc. Jiangsu Huapeng Transformer Co., Ltd. DBA JSHP Transformer		Norcross, GA 30071	San Jose, CA 95117	
Manufacturer Hyundai Power Transformer Inc. Jiangsu Huapeng Transformer Co., Ltd. DBA JSHP Transformer				
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Percent of Failure of last 100 power transformers at the factory testing: Percent of Failure of last 100 power transformers after nstalled in field: Oscillation Osc	Nearest Repair Facility:	215 Folmar Pkwy. Montgomery. AL 36105	180 Constellation Drive. Stoney Creek. Ontario L8E 6B2	
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Other Utilities Purchasing Recent Units of Same Design: Clara project: 220/66kV, 250/200/150MV Auto FPL/CNI: 138/69/13.2kV, 224/179/134MV Auto S25kV Ia0i0 Contact name: Brett Allsup (503)813-6413 BHE / NV Energy Harry Allen Project FOUR 500MVA 525kV Ia0i0 Contact name: Geoff Matthews (515) 979- 3758 North Carolina Sales Tax \$ 203,700.00 \$ 209,700.00		Auto Tampa Electric/224MVA auto :	Project 560MVA 345kV YNa0d1 Contact name: Joe Dugan	
FPL/CNI : 138/69/13.2kV, 224/179/134MV Auto BHE / NV Energy Harry Allen Project FOUR 500MVA 525kV Ia0i0 Contact name: Geoff Matthews (515) 979- 3758 North Carolina Sales Tax \$ 203,700.00 \$ 209,700.00		233.7/69/15kV.224/179.2/134.4MV Auto SCE/Santa	(712) 366-5649 BHE / PacifiCorp Oquirrh Project 700 MVA	
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North Carolina Sales Tax \$ 203,700.00 \$ 209,700.00			525kV la0i0 Contact name: Geoff Matthews (515) 979-	
			3758	
Total Rase Bid \$ 3 113 700 00 \$ 3 205 410 00	North Carolina Sales Tax	\$ 203,700.00	\$ 209,700.00	
10tal base blu	Total Base Bid	\$ 3,113,700.00	\$ 3,205,410.00	

	MAXIMUM GUARANTEED LOSSES				
	SCHEDULES 1 (1)				
	kW	kW	kW	kW	
Maximum Guaranteed no-load kW losses, 100% Voltage, 75C 120MVA (3)	56	N/A (at rated tap position)	56	56	
Maximum Guaranteed no-load kW losses, (not total losses) 100% Voltage, 75C 120MVA (3)	143	N/A (at rated tap position)	174	174	
Maximum guaranteed Total kW losses, at 120MVA, 75C(3)	199	N/A (at rated tap position)	230	230	
Auxilliary kW losses, first stage cooling	3	N/A (for cooling fans ONAF 1)	7	7	
Auxilliary kW losses, second stage cooling	6	N/A (for cooling fans ONAF 2)	14	14	
Impedance%	9% (at 120MVA, 75C, rated tap position)		10%		
Approval Drawings	12 weeks after PO awarded		45 Days ARO		
Final Drawings	2 weeks after drawing approval date		16 weeks ARO		
Delivery	June of 2024		60 weeks ARO		