RESOLUTION NO. 2019-<u>142</u>

A RESOLUTION AWARDING AN OPEN-END CONTRACT TO ERMCO, DYERSBERG, TN FOR THE FURNISHING AND DELIVERY OF DISTRIBUTION TRANSFORMERS FOR THE VINELAND MUNICIPAL ELECTRIC UTILITY – DISTRIBUTION DIVISION.

WHEREAS, the City of Vineland has heretofore advertised for bids for the furnishing and delivery of Distribution Transformers for the Vineland Municipal Electric Utility – Distribution Division, for the contract period of April 1, 2019 to March 31, 2020, with option for a second year, in accordance with specifications on file in the office of the Purchasing Agent; and

WHEREAS, on March 12, 2019, bids were received, duly opened and read aloud, being referred to the Business Administrator for tabulation, evaluation, report and recommendation; and

WHEREAS, the Business Administrator has, under date of April 2, 2019, submitted a written report and tabulation of the bids received and has recommended that an open-end contract for the furnishing and delivery of Distribution Transformers for the City of Vineland Municipal Electric Utility – Distribution Division, be awarded to Ermco, Dyersberg, TN, based on quoted unit prices, in the estimated amount of \$1,054,810.00, said bid being the lowest bid received, as evaluated by the Electric Utility, pursuant to Specification Provision "P" entitled, "Evaluation of Bids", and considered in the best interest of the City of Vineland; now, therefore,

BE IT RESOLVED by the Council of the City of Vineland that said contract for the furnishing and delivery of Distribution Transformers for the City of Vineland Municipal Electric Utility – Distribution Division, for the contract period of April 1, 2019 to March 31, 2020, with option for a second year, be and the same is awarded to Ermco, Dyersberg, TN, based on quoted unit prices, in the estimated amount of \$1,054,810.00, said bid being the lowest bid received, as evaluated by the Electric Utility, pursuant to Specification Provision "P" entitled, "Evaluation of Bids", and considered in the best interest of the City of Vineland, and the Purchasing Agent be and the same is hereby authorized and directed to issue purchase order contract for the same in behalf of the City; and

BE IT FURTHER RESOLVED that the Chief Financial Officer has certified that the funds for the contract to be awarded herein are available.

Adopted:	
ATTEST:	President of Council
City Clerk	



April 2, 2019

REPORT TO: THE MAYOR AND COUNCIL

RE: Proposals Submitted to the Purchasing Board 3/12/19

Dear Mayor and Members of Council:

Submitted to you herewith for your consideration is our evaluation of the proposals submitted to the Purchasing Board on March 12, 2019.

FURNISHING AND DELIVERY OF DISTRIBUTION TRANSFORMERS FOR THE VINELAND MUNICIPAL ELECTRIC UTILITY - DISTRIBUTION DIVISION, FOR THE CONTRACT PERIOD OF APRIL 1, 2019 TO MARCH 31, 2020, WITH OPTION FOR A SECOND YEAR.

It is the recommendation of the Director of Municipal Utilities, which has the concurrence of the Purchasing Agent and Business Administrator that a contract be awarded to the low bidder, Ermco, Dyersberg, TN, based on quoted unit prices, in the estimated amount of \$1,054,810.00, said bid being the lowest bid received, as evaluated by the Electric Utility, pursuant to Specification Provision "P" entitled, "Evaluation of Bids".

We trust that the above recommendation will receive your favorable consideration and that the recommended resolution will be adopted as presented.

Respectfully submitted,

Robert E. Dickenson Jr.

Business Administrator

RD/rl



BID EVALUATION FORM

RECEIVED
MAR 26 2019
CITY OF VINELAND BUSINESS ADMIN.

DEPARTMENT Electric Utility	BUSINESS ADMIN.
Date: 03/15/2019	
The undersigned recommends that a contract be awarded for the following	ng:
1. Bid Title: Open-Ended Contract for Distribution Transformers	
2. Amount to be Awarded: \$1,054,810 (estimated award only)	
Encumber Total Award	
✓ Encumber by Supplemental Release	
3. Engineer's Estimate: \$300,000 per year	
4. Amount Budget: \$_300,000 per year	
5. Account Number to be Charged: 80555512900352000	
6. Date Bids Received: 03/12/2019	
7. Date to be Awarded: 04/09/2019	
8. Recommended Vendor: Ermco	
9. Is Recommended Vendor the Apparent Lowest Bidder?	No
10. Comments/Special Instructions: This is an estimated award. See att	ached recommendation.
11. Evaluation Performed by: Dexter L. Gordon/Whitney Y. Peters	Will Kenden
12. Approved By: Lake Lille 3-21-15	A3/15/19
	of Double Min
13. Attached: (Check-Off List)	poma 10
☐ Tabulation of Bids ✓ Justification for Vendor Recommendation (if applicable) ✓ Evaluation Data (if applicable)	

Send copies to: Purchasing Division Business Administration

PURCHASING AGENT REVIEW COV BID # 2019-006



Proposals were received and opened Tuesday, March 12, 2019 at 2:00 PM for Distribution Transformers from the following:

ERMCO:

1A - \$311,820.00

2A - \$160,443.00 3A - \$205,819.00 4A - \$376,728.00

WEG:

4A - \$385,852.00

NOTE: Wesco and Howard provided Bids but they were found to be non-responsive as they did not provide the required Bid Proposal pages and/or flash drive as required by the specifications. They provided several individual quote pages only which is different than the Proposal pages required. Without these pages it is difficult, if not impossible, to evaluate their proposals.

Comments: Both ERMCO and WEG submitted all the mandatory documents.

Recommendation: It appears as EMRCO provided the lowest responsive responsible Bid, however, due to the pricing evaluation methodology the using Department needs to verify and evaluate the bids to determine who is the actual lowest responsive responsible bidder.

Miguel A. Mercado, QPA Purchasing Agent





Memo

March 14, 2019

To: Miguel Mercado, Purchasing Agent

From: Dexter L. Gordon, Supervising Engineer

Subject: Justification for Vendor Recommendation - Open-End Contract for Distribution Transformers

COV Bid #2019-06 – Bids were received on Tuesday, March 12, 2019

We received bids from four (4) Bidders. Of those it was determined that only two (2) were qualified. They were Ermco and WEG Transformer, USA.

I. Evaluation

Based on the "Cost of Ownership" calculations in Section 1, paragraph P.4, the recommendation for each proposal group is as follows.

Proposal 1 Coventional Pole-type XFMRs

					Total "Cost
				Insulating	of
	Bidder	Manufacturer	Core Type	Medium	Ownership"
a.	Ermco	Ermco	Silicon	Mineral Oil	\$7,035,291.82

The cost of ownership (Total Evaluated "Cost of Ownership") is the lowest for Ermco for proposal #1A.

Proposal #1 Award – Ermco – Estimated amount: \$311,820.00 with Silicon core design with mineral oil insulating medium.



Proposal 2 Coventional Pole-type, Dual Primary Rated XFMRs

					Total "Cost
				Insulating	of
	Bidder	Manufacturer	Core Type	Medium	Ownership"
a.	Ermco	Ermco	Silicon	Mineral Oil	\$2,475,338.99

The cost of ownership (Total Evaluated "Cost of Ownership") is the lowest for Ermco for proposal #2A.

Proposal #2 Award – Ermco – Estimated amount: \$160,443.00 with Silicon core design with mineral oil insulating medium.

Proposal 3 Pad-Mounted, Single-Phase XFMRs

					Total "Cost
				Insulating	of
	Bidder	Manufacturer	Core Type	Medium	Ownership"
a.	Ermco	Ermco	Silicon	Mineral Oil	\$2,927,199.10

The cost of ownership (Total Evaluated "Cost of Ownership") is the lowest for Ermco for proposal #3A.

Proposal #3 Award – Ermco – Estimated amount: \$205,819.00 with Silicon core design with mineral oil insulating medium.

Proposal 4 Pad-Mounted, Three-Phase XFMRs

					Total "Cost
				Insulating	of
	Bidder	Manufacturer	Core Type	Medium	Ownership"
a.	Ermco	Ermco	Silicon	Mineral Oil	\$6,970,395.43
b.	WEG Trans.	WEG Trans.	Silicon	Mineral Oil	\$7,282,169.11

The cost of ownership (Total Evaluated "Cost of Ownership") is the lowest for Ermco for proposal #4A.

Proposal #4 Award – Ermco – Estimated award: \$376,728.00 for Silicon core design with mineral oil insulating medium.

Page 2 of 3

Filename: Recommendation for XFMRs 2019.docx



A breakdown of my recommendation is -

	Successful Bidder	Estimated Award
Proposal #1A	Ermco	\$311,820.00
Proposal #2A	Ermco	\$160,443.00
Proposal #3A	Ermco	\$205,819.00
Proposal #4A	Ermco	\$376,728.00
Estimat	ed Total Award:	\$1,054,810,00

This recommendation based on quoted unit prices. Orders for material/equipment covered by this contract are made by only from supplemental purchase orders and based on the operational requirements of the Utility.

Attached are copies of the respective evaluation sheets for all qualified Bidders.

Approvals:		
		Date:
	Tom Dunmore	
	Supervising Engineer	
	Recut Co Napi	Date: 3/21/19
	Robert A. Napier	/ / /
	Superintendent of Distribution	*

Distribution Transformer Evaluation - Proposal 1 Conventional Pole-type Transformers (1Ø)

Bidder: Manufacturer: Ermco Ermco

Core-Type / Insulating Medium: # of months pricing firm from month of award (max of 12)

Silicon Steel / Type II Mineral Oil Added to Unit Price:

Cost of TOC over 25 years No-Full-% Estimated Bid Total = Losses for 25 = (Eval price + 25 Secondary Imp. Load Load Imp. Weight Delivery Unit Price (per **Evaluated Unit** Cost of Losses Weighted Unit Price X years per yr Losses) X Wt Voltage **KVA** Primary Voltage Min osses Losses Quote transformer) Item (lbs) (Days) Price for one year Value Wt Value **XFMR** Value 1A 5 12,470GRDY/7,200 120/240 1.50 22 10 65 1.50 56-70 \$578.00 \$604.01 \$185.13 25 \$14,450.00 \$4,628.22 \$130,805.75 1B 15 12,470GRDY/7,200 120/240 1.50 42 186 1.50 12 56-70 \$737.00 \$770.17 \$410.03 35 \$25,795.00 \$10,250.63 \$385,727.65 1C 25 12,470GRDY/7,200 120/240 13 1.50 66 281 1.50 56-70 \$840.00 \$877.80 \$634.01 75 \$63,000.00 \$15,850.19 \$1,254,599.25 1D 37.5 12,470GRDY/7,200 120/240 1.75 71 422 1.70 18 56-70 \$493.00 \$791.48 \$515.19 50 \$24,650.00 \$1,015,108.38 \$19,786.98 1E 50 12,470GRDY/7,200 120/240 1.75 93 503 1.70 21 56-70 \$596.00 \$622.82 \$991.24 30 \$17,880.00 \$24,780.88 \$762,111.08 1F 75 12,470GRDY/7,200 35 120/240 2.00 123 687 2.00 56-70 \$1,761.00 \$1,840.25 \$1,330.87 13 \$22,893.00 \$33,271.63 \$456,454.34 1G 12,470GRDY/7,200 100 120/240 2.00 150 849 2.00 34 56-70 \$2,198.00 \$2,296,91 \$1,633.24 5 \$10,990.00 \$40,831.02 \$215,639.65 1H 25 12,470GRDY/7,200 277 1.50 62 288 13 1.50 56-70 \$853.00 \$891.39 \$617.55 5 \$4,265.00 \$15,438.79 \$81,650,85 11 37.5 12,470GRDY/7,200 1.50 18 277 82 365 1.50 56-70 \$1,049.00 \$1,096.21 \$802.22 5 \$5.245.00 \$20,055.57 \$105,758.88 22 **1**J 50 12,470GRDY/7,200 277 1.50 103 507 1.50 56-70 \$1,133.00 \$1,183.99 \$1,052.03 5 \$5,665.00 \$26,300.78 \$137,423,81 1K 75 12,470GRDY/7,200 277 1.50 125 747 1.50 32 56-70 \$1,565.00 \$1,635.43 \$1,397.14 5 \$7,825.00 \$34,928.62 \$182,820.24 1L 100 12,470GRDY/7,200 277 1.75 155 889 35 1.70 56-70 \$1,994.00 \$2,083.73 \$1,698.38 5 \$9,970.00 \$42,459.46 \$222,715.94 1M 100 12,470/21,600Y 120/240 2.00 158 878 2.00 39 56-70 \$2,363.00 \$2,469.34 \$1,705.46 3 \$7,089.00 \$42,636.60 \$135,317.79 1N 100 12,470/21,600Y 1.75 178 34 277 809 1.70 56-70 \$2,088.00 \$2,181.96 \$1,756.66 3 \$6,264.00 \$43,916,55 \$138,295.53 10 100 12,470/21,600Y 240/480 1.75 185 774 1.70 34 56-70 \$2,084.00 \$2,177.78 \$1,764.66 3 \$6,252.00 \$44,116.56 \$138,883.01 1P 167 12,470/21,600Y 120/240 1,221 2.00 268 2.00 55 56-70 \$3,375.00 \$3,526.88 \$2,647.56 3 \$10,125.00 \$66,189.09 \$209,147.88 1Q 167 12.470/21.600Y 277 2.00 248 1.356 2.00 64 56-70 \$2,979.00 \$3,113.06 \$2,656.70 3 \$8,937.00 \$66,417.56 \$208,591.85 1R 167 49 12,470/21,600Y 240/480 2.00 261 1,148 2.00 56-70 \$2,992.00 \$3,126.64 \$2,540.83 3 \$8,976.00 \$63,520.74 \$199,942.13 18 167 7200/12470Y 2400/4160Y 3.50 67 213 1,526 5.70 56-70 \$3,205.00 \$3,349,23 3 \$2,612.13 \$9,615.00 \$65,303.25 \$205,957.42 1T 250 12,470/21,600Y 120/240 3.00 303 1,913 65 2.20 56-70 \$5,003.00 \$5,228.14 \$3,480,18 3 \$15,009.00 \$87,004.41 \$276,697.63 1U 250 12,470/21,600Y 277 2.00 392 1,615 2.00 61 56-70 \$4,605.00 \$4.812.23 \$3,716.28 3 \$13,815.00 \$92,907.05 \$293,157,81 1V 250 12,470/21,600Y 240/480 2.00 367 1.568 2.00 66 56-70 \$4,370,00 \$4,566.65 \$3,530.47 3 \$13,110.00 \$88,261.67 \$278,484,97

Recommend - AWARD

Tot Evaluated Cost for 25 years = (Evaluated Unit Price + (25 X Cost of Losses for 1 year)) X Weghted Value:

\$311,820.00

Jefferson 63/15/2018

Total Bid Amount = (Unit Price X Weighted Value):

\$7,035,291.82

Exceptions: None noted

Comments: Prices are firm for orders received through 6/30/19. Orders received 7/1/19 and beyond will be subject to escalation based on the Ermco material price index at the time of order entry and delivery within the leadtime .

Option Year: Will be subject to escalation based on the Ermco material price index

Evaluation preformed by Dexter L. Gordon, Supervising Engineer Whitney J. Peters, Principal Engineer

Proposal 1, Ermco Evaluation

Distribution Transformer Evaluation - Proposal 2 Conventional Pole-type, Dual Primary Rated Transformers (1Ø)

Bidder: Manufacturer: Ermco Ermco

Core-Type / Insulating Medium: # of months pricing firm from month of award (max of 12):

Silicon Steel / Type II Mineral Oil Added to Unit Price: 4.50%

TOC over 25 years = (Eval Second % No-Full-% Estimated Bid Total = Unit Cost of Losses price + 25 yr ary Imp. Load Load Imp. Weight Delivery Unit Price (per **Evaluated Unit** Cost of Losses Weighted Price X Wt for 25 years per Losses) X Wt KVA Item Primary Voltage Voltage Min Losses Losses Quote (lbs) (Days) transformer) Price for one year Value Value XFMR Value 2A 15 2400/4160Y X 7200/12470Y | 120/240 | 1.50 45 178 1.50 12 56-70 \$913.00 \$954.09 \$419.85 15 \$13.695.00 \$10,496.33 \$171,756.19 2B 25 2400/4160Y X 7200/12470Y 120/240 1.50 58 283 17 1.50 56-70 \$1,116.00 \$1,166.22 \$590.12 30 \$33,480.00 \$14,753.12 \$477,580.20 2C 37.5 2400/4160Y X 7200/12470Y 120/240 1.75 76 367 1.80 23 56-70 \$1,339.00 \$1,399.26 \$769.77 10 \$13,390.00 \$19,244.20 \$206,434.50 2D 50 2400/4160Y X 7200/12470Y 120/240 1.75 97 452 1.70 24 56-70 \$1,533.00 \$1,601.99 \$967.47 10 \$15,330.00 \$24,186.67 \$257,886,53 2E 75 2400/4160Y X 7200/12470Y 120/240 2.00 123 622 2.00 35 56-70 \$2,192.00 \$2,290.64 \$1,271.44 3 \$6,576.00 \$31,786.05 \$102,230.08 2F 100 2400/4160Y X 7200/12470Y 120/240 2.00 156 744 2.00 55 56-70 \$3,002.00 \$3,137.09 \$1,571.53 3 \$9,006.00 \$39,288.33 \$127,276,26 2G 25 2400/4160Y X 7200/12470Y 277 1.50 59 293 1.50 18 56-70 \$1,087.00 \$1,135.92 7 \$604.98 \$7,609.00 \$15,124.52 \$113,823.03 2H 37.5 2400/4160Y X 7200/12470Y 277 1.50 78 383 1.50 20 56-70 \$1,296.00 \$1,354.32 \$795.82 7 \$9,072.00 \$19,895.57 \$148,749.23 21 50 2400/4160Y X 7200/12470Y 277 1.50 109 435 1.50 29 56-70 \$1,488.00 \$1,554.96 \$1,020.49 5 \$7,440.00 \$25,512.30 \$135,336.31 2 75 2400/4160Y X 7200/12470Y 277 1.50 140 575 1.50 37 56-70 \$2,140.00 \$2,236,30 \$1,325.61 6 \$12,840.00 \$33,140,28 \$212,259.45 2K 100 2400/4160Y X 7200/12470Y 277 1.75 173 714 54 1.70 56-70 \$2,599.00 \$2,715.96 \$1,641.24 \$10,396.00 \$41,031.09 \$174,988,17 2L 25 240/480 1.50 2400/4160Y X 7200/12470Y 63 276 1.50 18 56-70 \$1,094.00 \$1,143,23 \$612.29 3 \$3,282.00 \$15,307.37 \$49,351.81 2M 37.5 240/480 1.75 2400/4160Y X 7200/12470Y 82 351 1.50 17 56-70 \$1,317.00 \$1,376.27 \$789.42 3 \$3,951.00 \$19,735.60 \$63,335,60 2N 75 2400/4160Y X 7200/12470Y 240/480 1.50 137 572 1.50 41 56-70 \$2,164,00 \$2,261.38 \$1,305.73 3 \$6,492.00 \$32,643,17 \$104,713.64 20 100 240/480 1.75 2400/4160Y X 7200/12470Y 181 639 1.80 53 56-70 \$2,628.00 \$2,746.26 \$1,618.39 3 \$7,884.00 \$40,459.74 \$129,618.01

Recommend - AWARD

Total Bid Amount = (Unit Price X Weighted Value):

\$160,443.00

Execptions: None noted

Comments: Prices are firm for orders received through 6/30/19. Orders received 7/1/19 and beyond will be subject to escalation based on the Ermco material price index at the time of order entry and delivery within the leadtime .

Option Year: Will be subject to escalation based on the Ermco material price index

Detta L. Sondan

Tot Evaluated Cost for 25 years = (Evaluated Unit Price + (25 X Cost of Losses for 1 year)) X Weghted Value: \$2,475,338.99

Evaluation preformed by Dexter L. Gordon, Supervising Engineer Whitney J. Peters, Principal Engineer

Distribution Transformer Evaluation - Proposal 3 Pad-Mounted Transformers (1Ø)

Bidder: Manufacturer:

Core-Type / Insulating Medium:

Ermco Ermco

Silicon Steel / Type II Mineral Oil Added to Unit Price:

		f of months pricing firm from month of aw	ard (max	of 12):	3			Added to	Unit Price:	4.50%						
Item	KVA	Primary Voltage	Second ary Voltage	% Imp. Min	No- Load Losses	Full- Load Losses	% Imp. Quote	Weight (lbs)	Estimated Delivery (Days)	Unit Price (per transformer)	Evaluated Unit Price	Cost of Losses for one year	Weighted Value	Bid Total = Unit Price X Wt Value	Cost of Losses for 25 years per XFMR	TOC over 25 years = (Eval price + 25 yr Losses) X Wi Value
3A	25	12470GRDY/7200	240/120	1.75	52	356	1.70	724	56-70	\$1,525.00	\$1,593.63	\$622.58	10	\$15,250.00	\$15,564.45	
3B	37.5	12470GRDY/7200	240/120	1.75	72	450	1.70	772	56-70	\$1,726.00	\$1,803.67	\$822.79	42	\$72,492.00	7.5.15.5.1.1.5	
3C	50	12470GRDY/7200	240/120	1.75	85	615	1.80	862	56-70	\$1,864.00		\$1,047.91	24	\$44,736.00	, , , , , , , , , , , , , , , , , , , ,	\$939,684.4
3D	75	12470GRDY/7200	240/120	2.00	131	714	2.00	1,119	56-70	\$2,359.00		\$1,401.26	12			\$675,497.8
3E	100	12470GRDY/7200	240/120	2.00	150	912	2.00	1,354	With Delication of the land	Marie College Company College		\$1,690.84	12	\$28,308.00	, , , , , , , , , , , , , , , , , , , ,	\$449,959.7
3F	167	12470GRDY/7200	240/120	2.00	229	1,553	shipkage.	Stranschotel	56-70	OF STATE OF STREET	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4	\$11,656.00	7	
3G	37.5	4160GRDY/2400 X 12470GRDY/7200	240/120	1.75	70	Discouling Co.	Statements Ch.	Sub-Literate.	viduonionisani			\$2,728.24		\$16,040.00	755,255.55	, , , , , , , , , , , , , , , , , , , ,
зн	50	4160GRDY/2400 X 12470GRDY/7200			ALCO MANAGEMENT	517	1.70	Section Control	TO CONTROL DESIGNATION	medice manufactuation to	7,000.00	\$802.22		\$3,982.00	\$20,055.53	\$44,272.24
31		4160GRDY/2400 X 12470GRDY/7200			Dr. Susseen	uccusialines.	netteringsi:	her Gustine	NS DWO LLY SECTION CO.	Part of the Samuel of Samuel Co.	1-1-0-1.10	\$1,032.60	2	\$4,388.00	\$25,815.09	\$56,215.64
3J		4160GRDY/2400 X 12470GRDY/7200			attalanta iller	687	2.00	alle amonice.	overstation or the contract of		\$2,887.34	\$1,336.58	2	\$5,526.00	\$33,414.48	\$72,603.62
55	.50	1100511D172400 X 12470GRD177200	240/120	2.00	179	760	2.00	1,554	56-70	\$3,441.00	\$3,595.85	\$1,717.58	1	\$3,441.00	\$42,939.50	\$46,535.35
		Pacammand AWADD								Total Bio	d Amount = (Unit F	Price X Weight	ed Value):	\$205.819.00		

Recommend - AWARD

Tot Evaluated Cost for 25 years = (Evaluated Unit Price + (25 X Cost of Losses for 1 year)) X Weghted Value: \$2,927,199.10

Exceptions: None noted

Comments: Prices are firm for orders received through 6/30/19 . Orders received 7/1/19 and beyond will be subject to escalation based on the Ermco material price index at the time of order entry and delivery within the leadtime .

Option Year: Will be subject to escalation based on the Ermco material price index

Vette P. Seem

Distribution Transformer Evaluation - Proposal 4 Pad-Mounted Transformers (3Ø)

Bidder: Manufacturer:

Ermco Ermco

Core-Type / Insulating Medium: # of months pricing firm from month of award (max of 12):

Silicon Steel / Type II Mineral Oil Added to Unit Price:

			T	_		STATE OF STREET		7 ladea to	orint i rice.	4.50%	(
Item	KVA	Primary Voltage	Secondar y Voltage		No- Load Losses	Full- Load Losses	% Imp. Quote	Weight (lbs)	Estimated Delivery (Days)	Unit Price (per transformer)	Evaluated Unit Price	Cost of Losses per year per Unit	Weighted Value	Bid Total = Unit Price X Wt Value	Cost of Losses for 25 years per XFMR	TOC over 25 years = (Eval price + 25 yr Losses) X Wt Value
4A	150	12470GRDY/7200	208Y/120	1.50	253	1,654	1.50	3,049	70-84	\$6,558.00	\$6,558.00	\$2,957.70	5	\$32,790.00		
4B	150	4160GRDY X 12470GRDY	208Y/120	1.50	241	1,486	1.60	3,462	70-84	\$7,588.00		1-1001110			7.5	7.132,002.07
4C	150	12470GRDY/7200	480Y/277	1.50	253	1,522	1.60	3,021	70-84	\$6,320.00		1-1:55:55		\$7,588.00	1335/555311.5	4.000.000
4D	225	12470GRDY/7200	208Y/120	1.50	510	1,487	1.60	3,929	70-84	\$8,632.00	\$8,632.00	1-1001100		\$6,320.00	\$70,925.73	\$77,245.73
4E	300	12470GRDY/7200	208Y/120	1.50	482	2,551	1.40	4,086	70-84	\$8,391.00		\$4,273.50		\$17,264.00		\$230,939.22
4F	300	4160GRDY X 12470GRDY				2,083	a di tinta di in	4,661	in an	MSL or more and minimum.	\$8,391.00	\$5,086.22	4	\$33,564.00	\$127,155.60	\$542,186.40
4G	300	12470GRDY/7200	480Y/277		THE PERSON	faction of the last	Santial Indian	A STATE OF THE PARTY OF THE PAR	70-84	\$10,005.00		\$4,841.22	1	\$10,005.00	\$121,030.58	\$131,035.58
4H	300				SERVICE AND	and the state of	PATRICIA PARTY	3,948	70-84	\$7,959.00	\$7,959.00	\$4,812.19	5	\$39,795.00	\$120,304.65	\$641,318.26
41	500				Biotheding	2,163	mantainae.	4,505	70-84	\$9,203.00	\$9,203.00	\$4,628.66	1	\$9,203.00	\$115,716.61	\$124,919.61
		12470GRDY/7200	208Y/120		584	4,568	2.10	5,240	70-84	\$10,934.00	\$10,934.00	\$7,512.98	1	\$10,934.00	\$187,824.58	\$198,758.58
4J	500	12470GRDY/7200	480Y/277		590	4,359	2.10	5,029	70-84	\$9,430.00	\$9,430.00	\$7,356.20	3	\$28,290.00	\$183,904.97	\$580,004.91
4K	750	12470GRDY/7200	480Y/277	5.75	821	5,894	5.80	7,575	70-84	\$13,284.00	\$13,284.00	\$10,079.41	3	\$39,852.00	\$251,985.17	
4L	1000	12470GRDY/7200	480Y/277	5.75	1,087	7,554	5.70	8,358	70-84	\$15,017.00	\$15,017.00	\$13,116.88	3	\$45,051.00		\$795,807.50
4M	1500	12470GRDY/7200	480Y/277	5.75	1,389	10,324	5.80	10,736	70-84	\$20,633.00	\$20,633.00	\$17,374.81	2	NAME OF TAXABLE PARTY.	\$327,921.90	\$1,028,816.71
4N	2000	12470 Delta	480Y/277	5.75	1,795	11,556	5.50	13,232	70-84	\$25,123.00	\$25,123.00			\$41,266.00	\$434,370.20	\$910,006.40
40	2500	12470 Delta	480Y/277	5.75	2,306	14,270	5.90	14,351	70-84	\$29,683.00	\$29,683.00	\$20,820.95	1	\$25,123.00	\$520,523.64	\$545,646.64
								,001	,0-04			\$26,221.89	1	\$29,683.00	\$655,547.19	\$685,230.19
		Recommend - AWARD								Total E	Bid Amount = (Un	it Price X Weighte	ed Value):	\$376,728.00	\rightarrow	><

Tot Evaluated Cost for 25 years = (Evaluated Unit Price + (25 X Cost of Losses for 1 year)) X Weghted Value:

\$6,970,395.43

Exceptions: None noted

Comments: Prices are firm for orders received through 6/30/19 . Orders received 7/1/19 and beyond will be subject to escalation based on the Ermco material price index at the time of order entry and delivery within the leadtime .

Option Year: Will be subject to escalation based on the Ermco material price index

Jette florden 3/15/2019

Evaluation preformed by Dexter L. Gordon, Supervising Engineer Whitney J. Peters, Principal Engineer

Distribution Transformer Evaluation - Proposal 4 Pad-Mounted, Three-Phase (3Ø)

Bidder

Manufacturer: Core-Type / Insulating Medium: WEG WEG

Silicon Steel / Type II Mineral Oil

of months pricing firm from month of award (max of 12):

Added to Unit Price:

Item	KVA	Primary Voltage	Secondar y Voltage		No- Load Losses	Full- Load Losses	% Imp. Quote	Weight (lbs)	Estimated Delivery (Days)	Unit Price (per transformer)	Evaluated Unit Price	Cost of Losses per year per Unit	Weighted Value	Bid Total = Unit Price X Wt Value	Cost of Losses for 25 years per XFMR	TOC over 25 years = (Eval price + 25 yr Losses) X Wt Value
4A	150	12470GRDY/7200	208Y/120	1.50	348	1,260	1.49	3,094	40-50	\$6,615.00	\$6,615.00	\$3,140.33	5	\$33,075.00	\$78,508.23	\$425,616.1
4B	150	4160GRDY X 12470GRDY	208Y/120	1.50	381	1,087	1.49	3,564	40-50	\$8,685.00	\$8,685.00	\$3,170.73	1	\$8,685.00	1	
4C	150	12470GRDY/7200	480Y/277	1.50	390	1,076	1.49	3,210	40-50	\$6,432.00	\$6,432.00	\$3,212.10	1	\$6,432.00		, , , , , , , , , , , , , , , , , , , ,
4D	225	12470GRDY/7200	208Y/120	1.50	440	1,897	1.51	3,488	40-50	\$7,904.00	\$7,904.00	\$4,248.35	2	\$15,808.00	\$106,208.84	
4E	300	12470GRDY/7200	208Y/120	1.50	571	2,323	1.56	4,313	40-50	\$8,980.00	\$8,980.00	\$5,386.32	4	\$35,920.00		
4F	300	4160GRDY X 12470GRDY	208Y/120	1.50	591	2,182	1.53	4,534	40-50	\$11,445.00	\$11,445.00	\$5,371.70	1	\$11,445.00		
4G	300	12470GRDY/7200	480Y/277	1.50	622	2,087	1.50	4,234	40-50	\$8,321.00	\$8,321.00	\$5,461.98	5	\$41,605.00		
4H	300	4160GRDY X 12470GRDY	480Y/277	1.50	649	1,932	1.54	4,700	40-50	\$10,586.00	\$10,586.00	\$5,474.56	1	\$10,586.00		
41	500	12470GRDY/7200	208Y/120	2.00	895	3,204	2.05	6,038	40-50	\$11,886.00	\$11,886.00	\$8,043.04	1	\$11,886.00		
4J	500	12470GRDY/7200	480Y/277	2.00	777	3,650	1.99	5,140	40-50	\$9,986.00	\$9,986.00	\$7,776.53	3	\$29,958.00	\$194,413.26	
4K	750	12470GRDY/7200	480Y/277	5.75	805	6,268	5.69	6,819	40-50	\$12,756.00	\$12,756.00	\$10,329.90	3	\$38,268.00	\$258,247.38	
4L	1000	12470GRDY/7200	480Y/277	5.75	1,035	7,670	5.70	7,425	50-60	\$14,720.00	\$14,720.00	\$12,925.80	3	\$44,160.00	\$323,145.01	
4M	1500	12470GRDY/7200	480Y/277	5.75	1,266	11,247	5.76	10,393	50-60	\$21,820.00	\$21,820.00	\$17,515.80	2	\$43,640.00	\$437,895.12	
4N	2000	12470 Delta	480Y/277	5.75	1,849	13,015	5.73	11,554	50-60	\$24,778.00	\$24,778.00	\$22,463.31	1	\$24,778.00	\$561,582.85	
40	2500	12470 Delta	480Y/277	5.75	2,212	15,638	5.71	13,708	50-60	\$29,606.00	\$29,606.00	\$26,935.41	1	\$29,606.00		,

Exceptions: II.G. Transformers designed and quoted to meet DOE 2016 efficiencies

IV.C.2. Fusing will be ABB bayonets and Hi Tech PRCLF's

II.F.3. Mineral oil is certified as NON-PCB, not PCB free, as it contains <1PPM PCB at time of manufacturer.

IV.D. Paint Finish: Our warranty is 12/18 months. Please include adder of 4% of sales price per unit for extended 5 year warranty.

IV.H.4. Low voltage bushings are epoxy stud with thread-on one-piece spade through 500kVA 208Y/120 and 1000kVA, 480Y/277. Above that, low voltage bushings are one-piece epoxy with integral spades.

IV.H.6. Our quoted losses are subject to ANSI tolerances and penalty will not be paid unless ANSI tolerances are exceeded.

Comments: Note: Pricing is firm through 06/30/2019

Net 60 days

1000 kVA and above 10-12 weeks 750 kVA and below 8-10 weeks

Option Year: Not Mentioned

Evaluation preformed by:

Dexter L. Gordon, Supervising Engineer Whitney Y. Peters, Principal Engineer

Tot Evaluated Cost for 25 years = (Evaluated Unit Price + (25 X Cost of Losses for 1 year)) X Weghted Value:

Deelle 23/19/19

\$7,282,169,11