

RESOLUTION NO. 2023- 579

A RESOLUTION AWARDING AN OPEN-END CONTRACT  
TO HOWARD INDUSTRIES, INC., LAUREL, MS FOR THE  
FURNISHING OF DISTRIBUTION TRANSFORMERS FOR  
THE VINELAND MUNICIPAL ELECTRIC UTILITY.

WHEREAS, the City of Vineland has heretofore advertised for bids for the furnishing of Distribution Transformers for the Vineland Municipal Electric Utility, for a period of one year from date of award, with option to renew for one additional year, COV BID #2023-51, in accordance with specifications on file in the office of the Purchasing Agent; and

WHEREAS, on November 9, 2023, 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 December 5, 2023, submitted a written report and tabulation of the bids received and has recommended that an open-end contract for the furnishing of Distribution Transformers for the City of Vineland Municipal Electric Utility, be awarded to Howard Industries, Inc., Laurel, MS, based on quoted unit prices, in the estimated amount of \$1,100,000.00, said bid being the lowest bid received, as evaluated by the Electric Utility, pursuant to Specification Provision "1.16" 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 open-end contract for the furnishing of Distribution Transformers for the City of Vineland Municipal Electric Utility, COV BID #2023-51, for a period of one year from date of award, with option to renew for one additional year, be and the same is awarded to Howard Industries, Inc., Laurel, MS, based on quoted unit prices, for the estimated amount of \$1,100,000.00, said bid being the lowest bid received, as evaluated by the Electric Utility, pursuant to Specification Provision "1.16" 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:

\_\_\_\_\_  
President of Council

ATTEST:

\_\_\_\_\_  
City Clerk



December 6, 2023

REPORT TO: THE MAYOR AND COUNCIL

RE: Proposals Submitted to the Purchasing Board 11/9/23

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 November 9, 2023.

FURNISHING OF DISTRIBUTION TRANSFORMERS FOR THE VINELAND MUNICIPAL ELECTRIC UTILITY, FOR THE CONTRACT PERIOD OF ONE YEAR FROM DATE OF AWARD, WITH OPTION TO RENEW FOR ONE ADDITIONAL YEAR, COV BID #2023-51

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 Howard Industries, Inc., Laurel, MS, based on quoted unit prices, in the estimated amount of \$1,100,000.00, said bid is the lowest bid received, as evaluated by the Electric Utility, pursuant to Specification Provision "1.16" 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/wr





CITY OF  
**VINELAND**  
WHERE IT'S ALWAYS GROWING SEASON



**BID EVALUATION FORM**

DEPARTMENT VMEU - Distribution

Date: 11/27/2023

The undersigned recommends that a contract be awarded for the following:

1. COV Bid # 2023-51
2. Bid Title: Distribution Transformers
3. Amount to be Awarded: \$ 1,100,000.00  
 Encumber Total Award  
 Encumber by Supplemental Release
4. Engineer's Estimate: \$ 800,000.00
5. Amount Budget: \$ 800,000.00
6. Account Number to be Charged: 4-05-55-512-9003-52000; E-398
7. Date Bids Received: 11/09/2023
8. Date to be Awarded: 12/12/2023
9. Recommended Vendor: Howard Industries
10. Is Recommended Vendor the Apparent Lowest Bidder?  Yes /  No
11. Comments/Special Instructions: Howard Ind. - lowest qualified bid.
12. Evaluation Performed by: William Burns, Assistant Engineer, Ext. 4977
13. Approved By: \_\_\_\_\_

*John Lulle*

Attached: (Check-Off List)

- 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 # 2023-51**



Proposals were received and opened Thursday, November 9, 2023 at 2:00 PM for Distribution Transformers from the following:

Irby Utilities  
WEG Transformers USA  
Anixter dba Wesco, Inc.  
Howard Industries  
Graybar Electric, Co.

Comments: All bidders submitted all mandatory documents.

**Recommendation:** Due to the complexity of the proposal sheets and flash drives, the department shall make award to the lowest, responsive, and responsible bid.

Jeanine N. Meneghetti, QPA  
Purchasing Agent

A small, handwritten signature in blue ink, appearing to be the initials "JM".



COV BID #2023-51

WB 11/15/2023

Distribution Transformers  
 Bids Received: 11/09/2023

**Summary of Bids**

**Pricing**

Proposal	Type	Howard Industries (Howard Xfmrs)	Anixter (Howard Xfmrs)	Graybar (JST Xfmrs)	Irby (WEG/Hitachi Xfmrs)	WEG (WEG Xfmrs)
M-A	Micro/Specialty	\$60,400.00	\$71,710.00	No Quote	No Quote	No Quote
1-A	Pole - Primary Rated	\$1,587,830.00	\$1,885,609.00	No Quote	No Quote	No Quote
2-A	Pole - Dual Rated	\$778,828.00	\$924,854.00	No Quote	No Quote	No Quote
3-A	Padmount - 1Φ	\$1,378,887.00	\$1,681,561.00	\$1,338,434.37	No Quote	No Quote
4-A	Padmount - 3Φ	\$1,509,437.00	\$1,797,981.00	\$1,752,158.07	\$1,814,951.00	\$1,742,367.00
<i>Totals:</i>		\$5,315,382.00	\$6,361,715.00	N/A	N/A	N/A

**Lead-Time**

Proposal	Type	Howard Industries (Howard Xfmrs)	Anixter (Howard Xfmrs)	Graybar (JST Xfmrs)	Irby (WEG/Hitachi Xfmrs)	WEG (WEG Xfmrs)
M-A	Micro/Specialty	60 weeks	60 weeks	No Quote	No Quote	No Quote
1-A	Pole - Primary Rated	60 weeks	60 weeks	No Quote	No Quote	No Quote
2-A	Pole - Dual Rated	60 weeks	60 weeks	No Quote	No Quote	No Quote
3-A	Padmount - 1Φ	52 weeks	52 weeks	45 weeks	No Quote	No Quote
4-A	Padmount - 3Φ	52 weeks	52 weeks	45 weeks	36-112 weeks	85-112 weeks

**Proposal M-A: Micro or Speciality Pole-Type, Single-phase Primary Rated**

Howard Industries	Item	KVA	Primary Voltage	Secondary Voltage	% Imp. Min	Weighted Value	No-Load Losses, Watts *	Full-Load Losses, Watts *	Imp. % (#.##)	Weight (lbs)	Est. Delivery (Weeks)	Unit Price (per transformer)	Total Weighted Price	Howard Industries Proposal Micro-A Bid
	MA	1	12,470GrdY/7,200	120	1.5	10	19	15	1.50	108	60	\$1,292.00	\$12,920.00	\$60,400.00
MB	1-1/2	12,470GrdY/7,200	120	1.5	10	22	22	1.50	124	60	\$1,434.00	\$14,340.00		
MC	3	12,470GrdY/7,200	120	1.5	10	24	42	1.50	160	60	\$1,661.00	\$16,610.00		
MD	5	12,470GrdY/7,200	120/240	1.75	10	28	75	1.50	169	60	\$1,653.00	\$16,530.00		

Anixter	Item	KVA	Primary Voltage	Secondary Voltage	% Imp. Min	Weighted Value	No-Load Losses, Watts *	Full-Load Losses, Watts *	Imp. % (#.##)	Weight (lbs)	Est. Delivery (Weeks)	Unit Price (per transformer)	Total Weighted Price	Anixter Proposal Micro-A Bid
	MA	1	12,470GrdY/7,200	120	1.5	10	19	15	1.50	108	60	\$1,535.00	\$15,350.00	\$71,710.00
MB	1-1/2	12,470GrdY/7,200	120	1.5	10	22	22	1.50	124	60	\$1,702.00	\$17,020.00		
MC	3	12,470GrdY/7,200	120	1.5	10	24	42	1.50	160	60	\$1,970.00	\$19,700.00		
MD	5	12,470GrdY/7,200	120/240	1.75	10	28	75	1.50	169	60	\$1,964.00	\$19,640.00		



**Proposal 1-A: Pole-Type, Single-phase Primary Rated**

	Item	KVA	Primary Voltage	Secondary Voltage	% Imp. Min	Weight ed Value	No-Load Losses, Watts *	Full-Load Losses, Watts *	Imp. % (#.##)	Weight (lbs)	Est. Delivery (Weeks)	Unit Price (per transformer )	Total Weighted Price	Howard Industries Proposal 1-A Bid
Howard Industries	1A	15	12470GrdY/7200	120/240	1.5	35	54	159	1.50	329	60	\$2,760.00	\$96,600.00	\$1,587,830.00
	1B	25	12,470GrdY/7,201	120/240	1.5	75	76	250	1.50	420	60	\$3,783.00	\$283,725.00	
	1C	37.5	12,470GrdY/7,202	120/240	1.75	50	98	372	1.80	586	60	\$5,247.00	\$262,350.00	
	1D	50	12,470GrdY/7,203	120/240	1.75	30	108	523	1.80	644	60	\$5,650.00	\$169,500.00	
	1E	75	12,470GrdY/7,204	120/240	2	13	151	697	2.00	906	60	\$7,847.00	\$102,011.00	
	1F	100	12,470GrdY/7,205	120/240	2	5	208	761	2.00	1,148	60	\$9,387.00	\$46,935.00	
	1G	25	12,470GrdY/7,206	277	1.5	5	77	257	1.50	398	60	\$3,762.00	\$18,810.00	
	1H	37.5	12,470GrdY/7,207	277	1.5	5	98	369	1.50	528	60	\$4,700.00	\$23,500.00	
	1I	50	12,470GrdY/7,200	277	1.5	5	124	455	1.50	719	60	\$5,670.00	\$28,350.00	
	1J	75	12,470GrdY/7,200	277	1.5	5	159	665	1.50	873	60	\$8,147.00	\$40,735.00	
	1K	100	12,470GrdY/7,200	277	1.75	5	190	845	1.80	1,093	60	\$8,933.00	\$44,665.00	
	1L	100	12,470/21,600Y	120/240	2	3	204	780	2.00	1,166	60	\$11,182.00	\$33,546.00	
	1M	100	12,470/21,600Y	277	1.75	3	220	717	1.80	1,200	60	\$10,516.00	\$31,548.00	
	1N	100	12,470/21,600Y	240/480	1.75	3	231	672	1.80	1,199	60	\$10,414.00	\$31,242.00	
	1O	167	12,470/21,600Y	120/240	2	3	288	1,178	4.00	1,923	60	\$16,286.00	\$48,858.00	
	1P	167	12,470/21,600Y	277	2	3	263	1,336	3.90	1,655	60	\$13,852.00	\$41,556.00	
	1Q	167	12,470/21,600Y	240/480	2	3	293	1,174	3.90	1,709	60	\$14,601.00	\$43,803.00	
	1R	167	12,470GrdY/7,200	2400/4160Y	3.5	3	290	1,210	3.0 -4.0	2,349	60	\$16,865.00	\$50,595.00	
1S	250	12,470/21,600Y	120/240	3	3	339	1,788	4.00	2,255	60	\$24,465.00	\$73,395.00		
1T	250	12,470/21,600Y	277	2	3	379	1,732	3.90	2,666	60	\$19,461.00	\$58,383.00		
1U	250	12,470/21,600Y	240/480	2	3	374	1,681	4.00	2,218	60	\$19,241.00	\$57,723.00		

	Item	KVA	Primary Voltage	Secondary Voltage	% Imp. Min	Weight ed Value	No-Load Losses, Watts *	Full-Load Losses, Watts *	Imp. % (#.##)	Weight (lbs)	Est. Delivery (Weeks)	Unit Price (per transformer )	Total Weighted Price	Anixter Proposal 1-A Bid
	1A	15	12470GrdY/7200	120/240	1.5	35	54	159	1.50	329	60	\$3,275.00	\$114,625.00	
	1B	25	12,470GrdY/7,201	120/240	1.5	75	76	250	1.50	420	60	\$4,493.00	\$336,975.00	
	1C	37.5	12,470GrdY/7,202	120/240	1.75	50	98	372	1.80	586	60	\$6,230.00	\$311,500.00	



<b>Anixter</b>	1D	50	12,470GrdY/7,203	120/240	1.75	30	108	523	1.80	644	60	\$6,710.00	\$201,300.00	\$1,885,609.00
	1E	75	12,470GrdY/7,204	120/240	2	13	151	697	2.00	906	60	\$9,319.00	\$121,147.00	
	1F	100	12,470GrdY/7,205	120/240	2	5	208	761	2.00	1,148	60	\$11,147.00	\$55,735.00	
	1G	25	12,470GrdY/7,206	277	1.5	5	77	257	1.50	398	60	\$4,469.00	\$22,345.00	
	1H	37.5	12,470GrdY/7,207	277	1.5	5	98	369	1.50	528	60	\$5,581.00	\$27,905.00	
	1I	50	12,470GrdY/7,200	277	1.5	5	124	455	1.50	719	60	\$6,768.00	\$33,840.00	
	1J	75	12,470GrdY/7,200	277	1.5	5	159	665	1.50	873	60	\$9,672.00	\$48,360.00	
	1K	100	12,470GrdY/7,200	277	1.75	5	190	845	1.80	1,093	60	\$10,602.00	\$53,010.00	
	1L	100	12,470/21,600Y	120/240	2	3	204	780	2.00	1,166	60	\$13,280.00	\$39,840.00	
	1M	100	12,470/21,600Y	277	1.75	3	220	717	1.80	1,200	60	\$12,487.00	\$37,461.00	
	1N	100	12,470/21,600Y	240/480	1.75	3	231	672	1.80	1,199	60	\$12,364.00	\$37,092.00	
	1O	167	12,470/21,600Y	120/240	2	3	288	1,178	4.00	1,923	60	\$19,342.00	\$58,026.00	
	1P	167	12,470/21,600Y	277	2	3	263	1,336	3.90	1,655	60	\$16,446.00	\$49,338.00	
	1Q	167	12,470/21,600Y	240/480	2	3	293	1,174	3.90	1,709	60	\$17,336.00	\$52,008.00	
	1R	167	12,470GrdY/7,200	2400/4160Y	3.5	3	290	1,210	3.0-4.0	2,349	60	\$20,025.00	\$60,075.00	
	1S	250	12,470/21,600Y	120/240	3	3	339	1,788	4.00	2,255	60	\$29,053.00	\$87,159.00	
	1T	250	12,470/21,600Y	277	2	3	379	1,732	3.90	2,666	60	\$23,109.00	\$69,327.00	
1U	250	12,470/21,600Y	240/480	2	3	374	1,681	4.00	2,218	60	\$22,847.00	\$68,541.00		



**Proposal 2-A: Pole-Type, Dual-Rated Primary Voltage**

	Item	KVA	Primary Voltage	Secondary Voltage	Weighted Value	No-Load Losses, Watts *	Full-Load Losses, Watts *	Imp. % (#.##)	Weight (lbs)	Delivery (Weeks)	Unit Price (per transformer)	Total Weighted Price	Howard Industries Proposal 2-A Bid
Howard Industries	2A	15	4160GrdY/2400 X 12470GrdY/7200	120/240	15	56	142	1.60	524	60	\$4,273.00	\$64,095.00	\$778,828.00
	2B	25	4160GrdY/2400 X 12470GrdY/7200	120/240	30	70	244	1.50	589	60	\$5,353.00	\$160,590.00	
	2C	37.5	4160GrdY/2400 X 12470GrdY/7200	120/240	10	99	362	1.80	740	60	\$6,557.00	\$65,570.00	
	2D	50	4160GrdY/2400 X 12470GrdY/7200	120/240	10	122	449	1.80	860	60	\$7,678.00	\$76,780.00	
	2E	75	4160GrdY/2400 X 12470GrdY/7200	120/240	3	162	636	2.00	1,140	60	\$10,858.00	\$32,574.00	
	2F	100	4160GrdY/2400 X 12470GrdY/7200	120/240	3	210	742	2.00	1,445	60	\$13,436.00	\$40,308.00	
	2G	25	4160GrdY/2400 X 12470GrdY/7200	277	7	76	227	1.50	604	60	\$5,231.00	\$36,617.00	
	2H	37.5	4160GrdY/2400 X 12470GrdY/7200	277	7	99	358	1.50	671	60	\$6,407.00	\$44,849.00	
	2I	50	4160GrdY/2400 X 12470GrdY/7200	277	5	128	428	1.50	786	60	\$7,584.00	\$37,920.00	
	2J	75	4160GrdY/2400 X 12470GrdY/7200	277	6	181	553	1.50	1,242	60	\$11,063.00	\$66,378.00	
	2K	100	4160GrdY/2400 X 12470GrdY/7200	277	4	216	716	1.80	1,257	60	\$12,375.00	\$49,500.00	
	2L	25	2400/4160Y X 7200/12470Y	240/480	3	81	205	1.50	680	60	\$5,473.00	\$16,419.00	
	2M	37.5	2400/4160Y X 7200/12470Y	240/480	3	117	284	1.50	757	60	\$6,593.00	\$19,779.00	
	2N	75	2400/4160Y X 7200/12470Y	240/480	3	188	528	1.50	1,185	60	\$10,473.00	\$31,419.00	
	2O	100	2400/4160Y X 7200/12470Y	240/480	3	203	772	1.80	1,285	60	\$12,010.00	\$36,030.00	

	Item	KVA	Primary Voltage	Secondary Voltage	Weighted Value	No-Load Losses, Watts *	Full-Load Losses, Watts *	Imp. % (#.##)	Weight (lbs)	Delivery (Weeks)	Unit Price (per transformer)	Total Weighted Price	Anixter Proposal 2-A Bid
Anixter	2A	15	4160GrdY/2400 X 12470GrdY/7200	120/240	15	56	142	1.60	524	60	\$5,072.00	\$76,080.00	\$924,854.00
	2B	25	4160GrdY/2400 X 12470GrdY/7200	120/240	30	70	244	1.50	589	60	\$6,359.00	\$190,770.00	
	2C	37.5	4160GrdY/2400 X 12470GrdY/7200	120/240	10	99	362	1.80	740	60	\$7,786.00	\$77,860.00	
	2D	50	4160GrdY/2400 X 12470GrdY/7200	120/240	10	122	449	1.80	860	60	\$9,119.00	\$91,190.00	
	2E	75	4160GrdY/2400 X 12470GrdY/7200	120/240	3	162	636	2.00	1,140	60	\$12,893.00	\$38,679.00	
	2F	100	4160GrdY/2400 X 12470GrdY/7200	120/240	3	210	742	2.00	1,445	60	\$15,954.00	\$47,862.00	
	2G	25	4160GrdY/2400 X 12470GrdY/7200	277	7	76	227	1.50	604	60	\$6,211.00	\$43,477.00	
	2H	37.5	4160GrdY/2400 X 12470GrdY/7200	277	7	99	358	1.50	671	60	\$7,608.00	\$53,256.00	
	2I	50	4160GrdY/2400 X 12470GrdY/7200	277	5	128	428	1.50	786	60	\$9,004.00	\$45,020.00	

2J	75	4160GrdY/2400 X 12470GrdY/7200	277	6	181	553	1.50	1,242	60	\$13,135.00	\$78,810.00
2K	100	4160GrdY/2400 X 12470GrdY/7200	277	4	216	716	1.80	1,257	60	\$14,693.00	\$58,772.00
2L	25	2400/4160Y X 7200/12470Y	240/480	3	81	205	1.50	680	60	\$6,498.00	\$19,494.00
2M	37.5	2400/4160Y X 7200/12470Y	240/480	3	117	284	1.50	757	60	\$7,829.00	\$23,487.00
2N	75	2400/4160Y X 7200/12470Y	240/480	3	188	528	1.50	1,185	60	\$12,438.00	\$37,314.00
2O	100	2400/4160Y X 7200/12470Y	240/480	3	203	772	1.80	1,285	60	\$14,261.00	\$42,783.00



**Proposal 3-A: Pad-mounted, Single-phase Primary Rated**

Item	KVA	Primary Voltage	Secondary Voltage	Weighted Value	No-Load Losses, Watts *	Full-Load Losses, Watts *	Imp. % (#.##)	Weight (lbs)	Est. Delivery (Wks)	Unit Price (per transformer)	Weighted Price	Howard Industries Proposal 3-A Bid
3A	25	12470GrdY/7200	240/120	10	77	264	1.80	895	72	\$11,932.00	\$119,320.00	\$1,378,887.00
3B	37.5	12470GrdY/7200	240/120	42	97	392	1.80	989	72	\$9,530.00	\$400,260.00	
3C	50	12470GrdY/7200	240/120	24	123	492	1.80	1,073	72	\$10,403.00	\$249,672.00	
3D	75	12470GrdY/7200	240/120	12	158	700	2.00	1,494	72	\$13,746.00	\$164,952.00	
3E	100	12470GrdY/7200	240/120	4	196	878	2.00	1,714	72	\$26,357.00	\$105,428.00	
3F	167	12470GrdY/7200	240/120	4	306	1,271	2.00	2,380	72	\$37,372.00	\$149,488.00	
3G	37.5	4160GrdY/2400 X 12470GrdY/7200	240/120	2	91	355	1.80	1,635	72	\$21,685.00	\$43,370.00	
3H	50	4160GrdY/2400 X 12470GrdY/7200	240/120	2	115	458	1.80	1,679	72	\$23,880.00	\$47,760.00	
3I	75	4160GrdY/2400 X 12470GrdY/7200	240/120	2	158	599	2.00	2,082	72	\$31,133.00	\$62,266.00	
3J	100	4160GrdY/2400 X 12470GrdY/7200	240/120	1	190	803	2.00	2,242	72	\$36,371.00	\$36,371.00	

Item	KVA	Primary Voltage	Secondary Voltage	Weighted Value	No-Load Losses, Watts *	Full-Load Losses, Watts *	Imp. % (#.##)	Weight (lbs)	Est. Delivery (Weeks)	Unit Price (per transformer)	Weighted Price	Anixter Proposal 3-A Bid
3A	25	12470GrdY/7200	240/120	10	77	264	1.80	895	72	\$14,552.00	\$145,520.00	\$1,681,561.00
3B	37.5	12470GrdY/7200	240/120	42	97	392	1.80	989	72	\$11,621.00	\$488,082.00	
3C	50	12470GrdY/7200	240/120	24	123	492	1.80	1,073	72	\$12,687.00	\$304,488.00	
3D	75	12470GrdY/7200	240/120	12	158	700	2.00	1,494	72	\$16,764.00	\$201,168.00	
3E	100	12470GrdY/7200	240/120	4	196	878	2.00	1,714	72	\$32,143.00	\$128,572.00	
3F	167	12470GrdY/7200	240/120	4	306	1,271	2.00	2,380	72	\$45,576.00	\$182,304.00	
3G	37.5	4160GrdY/2400 X 12470GrdY/7200	240/120	2	91	355	1.80	1,635	72	\$26,446.00	\$52,892.00	
3H	50	4160GrdY/2400 X 12470GrdY/7200	240/120	2	115	458	1.80	1,679	72	\$29,122.00	\$58,244.00	
3I	75	4160GrdY/2400 X 12470GrdY/7200	240/120	2	158	599	2.00	2,082	72	\$37,968.00	\$75,936.00	
3J	100	4160GrdY/2400 X 12470GrdY/7200	240/120	1	190	803	2.00	2,242	72	\$44,355.00	\$44,355.00	

Item	KVA	Primary Voltage	Secondary Voltage	Weighted Value	No-Load Losses, Watts *	Full-Load Losses, Watts *	Imp. % (#.##)	Weight (lbs)	Est. Delivery (Weeks)	Unit Price (per transformer)	Weighted Price	Graybar Proposal 3-A Bid
3A	25	12470GrdY/7200	240/120	10	90	410	1.75%-2	971	45	\$11,316.24	\$113,162.40	\$1,338,434.37
3B	37.5	12470GrdY/7200	240/120	42	120	570	1.75%-2	1,050	45	\$11,822.85	\$496,559.70	
3C	50	12470GrdY/7200	240/120	24	140	700	1.75%-2	1,215	45	\$12,564.63	\$301,551.12	
3D	75	12470GrdY/7200	240/120	12	170	1,060	1.75%-2	1,387	45	\$14,635.53	\$175,626.36	
3E	100	12470GrdY/7200	240/120	4	260	1,270	1.75%-2	1,654	45	\$16,542.63	\$66,170.52	
3F	167	12470GrdY/7200	240/120	4	330	2,120	1.75%-2	1,852	45	\$19,781.19	\$79,124.76	
3G	37.5	4160GrdY/2400 X 12470GrdY/7200	240/120	2	125	600	1.75%-2	1,050	45	\$13,373.10	\$26,746.20	
3H	50	4160GrdY/2400 X 12470GrdY/7200	240/120	2	147	735	1.75%-2	1,215	45	\$14,161.68	\$28,323.36	
3I	75	4160GrdY/2400 X 12470GrdY/7200	240/120	2	180	1,115	1.75%-2	1,387	45	\$16,380.00	\$32,760.00	
3J	100	4160GrdY/2400 X 12470GrdY/7200	240/120	1	275	1,334	1.75%-2	1,654	45	\$18,409.95	\$18,409.95	



**Proposal 4-A: Pad-mounted, Three-phase Primary Rated**

Howard Industries	Item	KVA	Primary Voltage	Secondary Voltage	Weighted Value	No-Load Losses, Watts *	Full-Load Losses, Watts *	Imp. % (#.##)	Weight (lbs)	Estimated Delivery (Weeks)	Unit Price (per transformer)	Weighted Price	Howard Industries Proposal 4-A Bid
	4A	150	12470GrdY/7200	208Y/120	5	353	1,260	1.50	3,389	52	\$20,800.00	\$104,000.00	\$1,509,437.00
	4B	150	4160GrdY X 12470GrdY	208Y/120	1	289	1,371	1.50	4,368	52	\$27,892.00	\$27,892.00	
	4C	150	12470GrdY/7200	480Y/277	1	332	1,344	1.50	3,061	52	\$19,909.00	\$19,909.00	
	4D	225	12470GrdY/7200	208Y/120	2	453	1,839	1.60	3,825	52	\$25,949.00	\$51,898.00	
	4E	300	12470GrdY/7200	208Y/120	4	557	2,397	1.50	4,248	52	\$30,647.00	\$122,588.00	
	4F	300	4160GrdY X 12470GrdY	208Y/120	1	615	1,707	1.40	7,358	52	\$44,713.00	\$44,713.00	
	4G	300	12470GrdY/7200	480Y/277	5	548	2,469	1.60	4,105	52	\$28,541.00	\$142,705.00	
	4H	300	4160GrdY X 12470GrdY	480Y/277	1	516	2,205	1.50	5,382	52	\$37,416.00	\$37,416.00	
	4I	500	12470GrdY/7200	208Y/120	1	733	3,939	2.00	5,332	52	\$43,909.00	\$43,909.00	
	4J	500	12470GrdY/7200	480Y/277	3	741	3,936	2.00	5,332	52	\$36,900.00	\$110,700.00	
	4K	750	12470GrdY/7200	480Y/277	3	910	5,910	5.70	6,942	52	\$52,148.00	\$156,444.00	
	4L	1000	12470GrdY/7200	480Y/277	3	1,212	7,158	5.80	8,418	52	\$64,996.00	\$194,988.00	
4M	1500	12470GrdY/7200	480Y/277	2	1,467	10,467	5.70	12,567	52	\$97,349.00	\$194,698.00		
4N	2000	12470 Delta	480Y/277	1	2,002	12,426	5.80	13,566	52	\$113,851.00	\$113,851.00		
4O	2500	12470 Delta	480Y/277	1	1,995	16,482	5.80	17,506	52	\$143,726.00	\$143,726.00		

Anixter	Item	KVA	Primary Voltage	Secondary Voltage	Weighted Value	No-Load Losses, Watts *	Full-Load Losses, Watts *	Imp. % (#.##)	Weight (lbs)	Estimated Delivery (Weeks)	Unit Price (per transformer)	Weighted Price	Anixter Proposal 4-A Bid
	4A	150	12470GrdY/7200	208Y/120	5	353	1,260	1.50	3,389	52	\$24,777.00	\$123,885.00	\$1,797,981.00
	4B	150	4160GrdY X 12470GrdY	208Y/120	1	289	1,371	1.50	4,368	52	\$33,225.00	\$33,225.00	
	4C	150	12470GrdY/7200	480Y/277	1	332	1,344	1.50	3,061	52	\$23,715.00	\$23,715.00	
	4D	225	12470GrdY/7200	208Y/120	2	453	1,839	1.60	3,825	52	\$30,909.00	\$61,818.00	
	4E	300	12470GrdY/7200	208Y/120	4	557	2,397	1.50	4,248	52	\$36,504.00	\$146,016.00	
	4F	300	4160GrdY X 12470GrdY	208Y/120	1	615	1,707	1.40	7,358	52	\$53,260.00	\$53,260.00	
	4G	300	12470GrdY/7200	480Y/277	5	548	2,469	1.60	4,105	52	\$33,996.00	\$169,980.00	
4H	300	4160GrdY X 12470GrdY	480Y/277	1	516	2,205	1.50	5,382	52	\$44,569.00	\$44,569.00		



	4I	500	12470GrdY/7200	208Y/120	1	733	3,939	2.00	5,332	52	\$52,304.00	\$52,304.00
	4J	500	12470GrdY/7200	480Y/277	3	741	3,936	2.00	5,332	52	\$43,955.00	\$131,865.00
	4K	750	12470GrdY/7200	480Y/277	3	910	5,910	5.70	6,942	52	\$62,116.00	\$186,348.00
	4L	1000	12470GrdY/7200	480Y/277	3	1,212	7,158	5.80	8,418	52	\$77,421.00	\$232,263.00
	4M	1500	12470GrdY/7200	480Y/277	2	1,467	10,467	5.70	12,567	52	\$115,960.00	\$231,920.00
	4N	2000	12470 Delta	480Y/277	1	2,002	12,426	5.80	13,566	52	\$135,614.00	\$135,614.00
	4O	2500	12470 Delta	480Y/277	1	1,995	16,482	5.80	17,506	52	\$171,199.00	\$171,199.00

	Item	KVA	Primary Voltage	Secondary Voltage	Weighted Value	No-Load Losses, Watts *	Full-Load Losses, Watts *	Imp. % (#.##)	Weight (lbs)	Estimated Delivery (Weeks)	Unit Price (per transformer)	Weighted Price	Anixter Proposal 4-A Bid
Graybar	4A	150	12470GrdY/7200	208Y/120	5	280	2,400	1.50%	4,057	45	\$38,263.68	\$191,318.40	\$1,752,158.07
	4B	150	4160GrdY X 12470GrdY	208Y/120	1	294	2,520	1.50%	4,057	45	\$39,403.26	\$39,403.26	
	4C	150	12470GrdY/7200	480Y/277	1	310	2,470	1.50%	4,057	45	\$35,680.32	\$35,680.32	
	4D	225	12470GrdY/7200	208Y/120	2	395	2,750	1.50%	4,322	45	\$40,152.06	\$80,304.12	
	4E	300	12470GrdY/7200	208Y/120	4	470	2,930	1.50%	4,322	45	\$42,004.17	\$168,016.68	
	4F	300	4160GrdY X 12470GrdY	208Y/120	1	494	3,077	1.50%	4,322	45	\$43,141.41	\$43,141.41	
	4G	300	12470GrdY/7200	480Y/277	5	500	3,000	1.50%	4,322	45	\$39,392.73	\$196,963.65	
	4H	300	4160GrdY X 12470GrdY	480Y/277	1	524	3,147	1.50%	4,322	45	\$42,193.71	\$42,193.71	
	4I	500	12470GrdY/7200	208Y/120	1	900	3,320	2.00%	5,303	45	\$52,861.77	\$52,861.77	
	4J	500	12470GrdY/7200	480Y/277	3	925	3,375	2.00%	5,303	45	\$49,502.70	\$148,508.10	
	4K	750	12470GrdY/7200	480Y/277	3	1,120	5,920	5.75%	6,703	45	\$55,923.66	\$167,770.98	
	4L	1000	12470GrdY/7200	480Y/277	3	1,300	8,250	5.75%	8,000	45	\$68,442.66	\$205,327.98	
	4M	1500	12470GrdY/7200	480Y/277	2	1,650	10,350	5.75%	10,009	45	\$82,602.00	\$165,204.00	
	4N	2000	12470 Delta	480Y/277	1	2,430	15,100	5.75%	11,900	45	\$100,911.33	\$100,911.33	
4O	2500	12470 Delta	480Y/277	1	3,200	19,650	5.75%	13,228	45	\$114,552.36	\$114,552.36		

	Item	KVA	Primary Voltage	Secondary Voltage	Weighted Value	No-Load Losses, Watts *	Full-Load Losses, Watts *	Imp. % (#.##)	Weight (lbs)	Estimated Delivery (Weeks)	Unit Price (per transformer)	Weighted Price	Irby Proposal 4-A Bid
	4A	150	12470GrdY/7200	208Y/120	5	348	1,658	1.52%	3,260	112	\$32,864.00	\$164,320.00	
	4B	150	4160GrdY X 12470GrdY	208Y/120	1	369	1,532	1.49%	3,923	112	\$55,935.00	\$55,935.00	
	4C	150	12470GrdY/7200	480Y/277	1	374	1,551	1.52%	3,086	112	\$30,256.00	\$30,256.00	



Irby	4D	225	12470GrdY/7200	208Y/120	2	460	2,320	1.52%	3,725	112	\$38,963.00	\$77,926.00	\$1,814,951.00
	4E	300	12470GrdY/7200	208Y/120	4	653	2,695	1.52%	4,423	112	\$47,951.00	\$191,804.00	
	4F	300	4160GrdY X 12470GrdY	208Y/120	1	663	2,590	1.51%	5,245	112	\$82,440.00	\$82,440.00	
	4G	300	12470GrdY/7200	480Y/277	5	738	2,403	1.49%	4,504	112	\$44,179.00	\$220,895.00	
	4H	300	4160GrdY X 12470GrdY	480Y/277	1	617	2,744	1.49%	4,574	112	\$69,043.00	\$69,043.00	
	4I	500	12470GrdY/7200	208Y/120	1	817	4,461	1.99%	5,655	112	\$63,532.00	\$63,532.00	
	4J	500	12470GrdY/7200	480Y/277	3	928	4,125	1.99%	5,239	112	\$51,266.00	\$153,798.00	
	4K	750	12470GrdY/7200	480Y/277	3	887	7,021	5.83%	6,749	112	\$62,243.00	\$186,729.00	
	4L	1000	12470GrdY/7200	480Y/277	3	1,119	8,905	5.71%	7,484	87	\$54,979.00	\$164,937.00	
	4M	1500	12470GrdY/7200	480Y/277	2	1,606	11,826	5.70%	10,221	87	\$75,705.00	\$151,410.00	
	4N	2000	12470 Delta	480Y/277	1	1,827	15,321	5.78%	11,548	87	\$90,708.00	\$90,708.00	
4O	2500	12470 Delta	480Y/277	1	2,220	18,187	5.76%	14,041	87	\$111,218.00	\$111,218.00		

Irby	4N	2000	12470 Delta	480Y/277	1			5.72%	12,800	36	\$110,000.00	\$110,000.00	Irby - Hitachi
	4O	2500	12470 Delta	480Y/277	1			5.66%	14,100	36	\$124,270.00	\$124,270.00	Irby - Hitachi

	Item	KVA	Primary Voltage	Secondary Voltage	Weighted Value	No-Load Losses, Watts *	Full-Load Losses, Watts *	Imp. % (#.##)	Weight (lbs)	Estimated Delivery (Weeks)	Unit Price (per transformer)	Weighted Price	WEG Proposal
													4-A Bid
WEG	4A	150	12470GrdY/7200	208Y/120	5	348	1,310	1.52%	3,260	110-112	\$31,550.00	\$157,750.00	\$1,742,367.00
	4B	150	4160GrdY X 12470GrdY	208Y/120	1	369	1,163	1.49%	3,923	110-112	\$53,698.00	\$53,698.00	
	4C	150	12470GrdY/7200	480Y/277	1	374	1,177	1.52%	3,086	110-112	\$29,046.00	\$29,046.00	
	4D	225	12470GrdY/7200	208Y/120	2	460	1,860	1.52%	3,725	110-112	\$37,405.00	\$74,810.00	
	4E	300	12470GrdY/7200	208Y/120	4	653	2,042	1.52%	4,423	110-112	\$46,033.00	\$184,132.00	
	4F	300	4160GrdY X 12470GrdY	208Y/120	1	663	1,927	1.51%	5,245	110-112	\$79,143.00	\$79,143.00	
	4G	300	12470GrdY/7200	480Y/277	5	738	1,665	1.49%	4,504	110-112	\$42,412.00	\$212,060.00	
	4H	300	4160GrdY X 12470GrdY	480Y/277	1	617	2,127	1.49%	4,574	110-112	\$66,282.00	\$66,282.00	
	4I	500	12470GrdY/7200	208Y/120	1	817	3,644	1.99%	5,655	110-112	\$60,991.00	\$60,991.00	
	4J	500	12470GrdY/7200	480Y/277	3	928	3,197	1.99%	5,239	110-112	\$49,216.00	\$147,648.00	
	4K	750	12470GrdY/7200	480Y/277	3	887	6,134	5.83%	6,749	110-112	\$59,754.00	\$179,262.00	
	4L	1000	12470GrdY/7200	480Y/277	3	1,119	7,786	5.71%	7,484	85-87	\$52,780.00	\$158,340.00	
	4M	1500	12470GrdY/7200	480Y/277	2	1,606	10,220	5.70%	10,221	85-87	\$72,677.00	\$145,354.00	
	4N	2000	12470 Delta	480Y/277	1	1,827	13,494	5.78%	11,548	85-87	\$87,080.00	\$87,080.00	
4O	2500	12470 Delta	480Y/277	1	2,220	15,967	5.76%	14,041	85-87	\$106,771.00	\$106,771.00		



**TABULATION OF BIDS**  
**DISTRIBUTION TRANSFORMERS COV BID 2023-51**  
**NOVEMBER 9, 2023**



**Engineer's Estimate - \$742,500.00YR**

	<b>Irby Utilities 1902 Cty Rt. 57 Fulton, NY 13069</b>	<b>WEG Transformers USA 6350 WEG Drive Washington, MO</b>	<b>Anixter dba Wesco Inc. 225 W. Station SQ. Dr. Ste. 700 Pittsburgh, PA 15219</b>	<b>Howard Industries 3225 Pendorff Rd. Laurel, MS 39440</b>	<b>Graybar Electric, Co. 105 Fieldcrest Ave. Edison, NJ 08837</b>
Ownership Discl.	YES	YES	YES	YES	YES
Addenda	YES	YES	YES	YES	YES
Affir. Act. Plan	YES	YES	YES	YES	YES
Check List	YES	YES	YES	YES	YES
Proposal	YES	YES	YES	YES	YES
Iran discl.	YES	YES	YES	YES	YES
TOTALS *					

\* Due to the complexity of pricing tables & formulas the total was left out. Must be evaluated by Dept. through the flash drives that were received with totals.

**Specifications also received by:**

Primary Lines

Kendall Electric

Eaton/Cooper Power Systems.

GM Sales

Ermco

Prime Vendor

Sheridan Ele.

ICP Energy

Deltek

Grid Link Power SoluTech