



July 21, 2021

Ms. Jessica Fett
Independence Power & Light (IPL)
21500 E Truman Rd
Independence, MO 64056

Re: Sub A – Cap Bank Proposal Review – WESCO

Dear Ms. Fett:

Burns & McDonnell completed the review of the WESCO Distribution proposal (based on Hitachi – ABB quotation REF.: 2170091) for the Substation A, 69-kV, 20-MVAR capacitor bank. We have concluded the technical contents of the proposal meet the requirements of the specification and no further technical clarification is necessary.

In the absence of other compliant proposals, Burns & McDonnell recommends IPL proceed with this WESCO proposal.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Miguel Gomez'.

Miguel Gomez, PMP
Project Manager

Attachment: WESCO bid_BMcD review 072121

cc: Mitch Krysa



INDEPENDENCE
• MISSOURI •

Procurement Division
111 E Maple, PO Box 1019
Independence, MO 64051-0519

Invitation to Bid 21054
Substation A 69 k-V Capacitor Bank & Accessories
Response Deadline Date and Time: June 30, 2021, 2:00 p.m., Local Time

Microsoft Teams bid-opening meeting
Join on your computer or mobile app
[Click here to join the meeting](#)

Or call in (audio only)
[+1 660-631-8082](tel:+16606318082), [567794937#](tel:+16606318082) United States, Marshall
Phone Conference ID: 567 794 937#

Deadline for questions is 2:00 p.m. local time on June 28, 2021
Please submit all questions regarding this Invitation to Bid online via www.publicpurchase.com

ATTENTION BIDDER – COMPLETE AND RETURN WITH BID

Bidding Firm WESLO DISTRIBUTION Phone Number 712-454-6081
(Please print or type)

Address 2501 EAST 3RD ST City SIoux CITY State IA Zip 51101

Name of Authorized Agent MMayer Email MMayer@weslo.com

The only authorized source for bid forms, addenda, and information regarding this bid is www.publicpurchase.com. Using bid forms, addenda, and bid information not obtained from www.publicpurchase.com creates the risk of not receiving necessary bid information that may eliminate your bid from consideration. Bids must be submitted online via www.publicpurchase.com. Paper, fax, or email bids will NOT be accepted and will not be returned to sender.

Submitting a bid response is bidder's response to adhere to all specifications, scopes, terms and conditions of this ITB. Any exceptions to the City's terms and conditions will render the bid non-responsive.

Reviewer: Burns & McDonnell
Summary: The sections highlighted below reflect the technical review by Burns & McDonnell dated 7/21/2021

BID FORM 21054

SUBSTATION A 69-kV CAPACITOR BANKS AND ACCESSORIES

Name of Bidder: WESCO DISTRIBUTION

Address of Bidder: 2501 EAST 3RD ST
SIoux CITY IA 51101

To: City of Independence, Missouri

A. PRICE QUOTATION TABLE

The undersigned hereby proposes and agrees, if this bid is accepted, to enter into agreement, in the form attached, to perform all work, which includes the assumption of all obligations, duties and responsibilities necessary to the successful completion of the contract and the furnishing of all insurance, labor, equipment, materials, compliance submittals, indicated or specified in the Contract Documents to be performed or furnished by Contractor for the following lump sum:

Total Firm Base Bid Price, FOB, substation, for the sale to the City of one (1), 20 MVAR, 69-kV capacitor bank for Substation A.

Item 1: \$ 71,950.00

Seventy-One thousand Nine hundred Fifty
dollars. (words)

Total Firm Base Bid Price for accessories and spare parts.

Item 2: \$ 12,010.00

Twelve thousand ten dollars.
(words)

Table 1 to be used to break down Items 1 and 2 lump-sum costs.

	Quantity	Firm Unit Price	Total Firm Price
Item 1:			
20 MVAR, 69-kV capacitor bank complete with accessories	1	\$71,950.00	\$71,950.00
Equipment delivery, including time for drawing approval: <u>22-26</u> weeks after PO issued			
Drawing delivery for review: <u>3-5</u> weeks after PO issued			
Item 2:			
Spare Parts: (individual prices required)			
1. 560-kVAR, 13.28-kV, capacitor, 2-bushing	4	\$1,950.00	\$7,800.00
2. 167-kVAR, 825 volt, capacitor, 2-bushing	1	\$1,650.00	\$1,650.00
3. Proposed post insulator	1	\$390.00	\$390.00
4. Potential Transformer (PT)	1	\$2,170.00	\$2,170.00
ITEM 2 LUMP-SUM PRICE			\$12,010.00

Does the bidder accept the City's terms and conditions without any exceptions? (Y/N) N

Michelle Meyer - Sales Manager
 Authorized Representative and Title

6/30/21
 Date

B. BIDDER PROPOSAL DATA

1. Each bidder shall complete the data as requested on these forms. Submission of manufacturer's standard catalog data in lieu of completing these forms will not be considered acceptable. Data provided will be used to evaluate the bidder's proposal. The proposed mounting arrangement shall be described in the proposal along with complete foundation loading data. Bid evaluation will include estimated foundation costs for the proposed arrangement and loading.

BIDDER COMPLETES:

- 2. Manufacturer: HAPG
- 3. Manufacturing plant location: Multiple: North America, China, India...
- 4. Capacitor name and model number: 2GUB132560F250P; 2GUB008167F2201
- 5. Percent of capacitor bank and accessories manufactured and assembled in the United States of America: Not Available

- 6. Capacitor type: Fuseless
- 7. Year introduced: N/A
- 8. Number of latest model in service: N/A
- 9. Patent holder: HAPG

10. What are plans to continue production? N/A

11. How long will spare parts be manufactured after model is discontinued? according to legal provisions

12. Provide source and location for spare parts: China; India...

13. Manufacturer's warranty period: 12/18 months (as per ABB's Standard T&Cs - see attached to the Bid Package)

14. Rated Voltage of Individual Capacitors, Volts	13.8kV
15. Rated Capacity of Individual Capacitor, kVAR	560kVAr
16. Rated BIL of Capacitors, kV	150kV BIL
17. Case Material	SS
18. Rack Material	Galv. Steel
19. Bus Material	Alum.
20. Dimensions (Furnish Sketch)	TBD
21. Weights (Furnish)	TBD
22. Volts per Internal Package or Section at Rated Voltage	1897V
23. Number of Internal Sections In-Series	7
24. Number of Sheets of Dielectric Between Foils	2
25. Total Nominal Dielectric Thickness (in mils) Between Foils	24.7um
26. Working Voltage Stress-Maximum	76.8
27. Temperature Rise of Isolated Capacitor Unit at Rated Voltage and kVAR in 40°C Still Air	
a. Internal Hot Spot Rise vs Losses_Fat Cans	as per Graph#KK98003b-CAN Temp.
b. Case Hot Spot	
28. Losses, Watts per Unit	Graph#999A-0011_Losses Watts per kVAr vs diel. temp
29. Temperature Rise of the Maximum Loss Unit While Operating at 100% Rated Voltage Indoors Between Two Others in 46°C Still Air Ambient	
a. Internal Hot Spot	
b. Case Hot Spot	
30. Post Insulators:	as per HAPG Proposal's BOM
a. ANSI Technical Reference Number	
b. Manufacturer	
c. Catalog Number	
31. Capacitor Manufacturer	HAPG
32. Neutral Capacitor Manufacturer	HAPG
Rated Voltage of Capacitor, V	825V
Rated Capacity of Capacitor, kVAR	167kVAr
BIL, kV	110kV BIL
33. Potential Transformer (PT) Manufacturer	HAPG
Rated Voltage of PT	

34. Shipment:

- a. FOB
- b. Method: Truck.
- c. Shipping groups, loose items, sub-assemblies, and pieces for each capacitor bank.
List below: as per HAPG Proposal#2170091

- (1) _____
- (2) _____
- (3) _____
- (4) _____
- (5) _____
- (6) _____

d. Delivery locations/dates (window):

(1) One (1) 20 MVAR, 69-kV capacitor bank and accessories shall be delivered to Substation A; 21500 East Truman Road, Independence, Missouri 64056. Delivery time shall be in the month of January 2022.

35. Spare Parts:

List: as per HAPG Proposal#2170091

C. CONTRACT CHANGES AND BIDDER OPTIONS

Addenda received and considered in the preparation of this bid are enclosed as follows:

None

D. TAXES

The City is exempt from State of Missouri sales, use, and similar taxes.

E. COMPLIANCE SUBMITTALS

All shop drawings and other documentation which require the City's acceptance prior to the manufacture of the capacitor banks and accessories shall be submitted as per the requirements of Section V of the Specifications.

F. COMPLETION SCHEDULE

1. The capacitor banks and accessories shall be shipped on schedule by the manufacturer; however, a 30-day delay of shipment option may be requested by the purchaser and shall be granted by the manufacturer, at no additional cost.
2. In the event that a time lost due to delays beyond the control of the manufacturer extends the scheduled delivery date, a written request for an extension of the scheduled delivery date will be submitted to the purchasing department. If the written request is not submitted 15 calendar days prior to scheduled delivery date a monetary amount equal to one-tenth percent of the bid price will be charged for each day of delay past the scheduled delivery day.
3. The individual listed on the purchase order shall be notified 14 days prior to shipment. Also, a 24-hour notice of delivery shall be required.
4. The capacitor banks and accessories shall be manufactured and delivered by standard delivery methods upon notification by Independence Power & Light to substations as identified by IPL.

G. EXCEPTIONS TO SPECIFICATIONS LIST

Any and all exceptions shall be listed by page number in the blanks below and marked in ink on the pages of the specifications:

Exceptions to specifications, page everything per HAPG Proposal#2170091

H. EXPERIENCE

The bidder's experience in performing work of comparable type and size is evidenced by a list of previously completed projects enclosed with this bid.

Submission of a bid proposal does not automatically qualify a bidder as a competent and acceptable manufacturer or remanufacture. Previous experience on similar size and type of equipment will be considered during the evaluation of the bids and disqualification could result due to information obtained during this process.

I. PRINCIPALS

The bidder hereby declares that the only persons or firms interested in the bid as a principal are named herein; that no other persons or firms than herein named have any interest in this bid or in the contract to be entered into; that this bid is made without connection with any other parties making a bid; and that this bid is in all respects fair and in good faith without collusion or fraud.

The full names and addresses of parties interested in this bid as principals are as follows:

MITCH MEYER - WESCO 2501 EAST 3RD ST
SIOUX CITY IA 51101

J. NOTICE

The bidder hereby designates as their office to which notice of award of this bid may be mailed or delivered:

2501 EAST 3RD ST.
SIOUX CITY IA 51101

ITEM#1: 69kV Open Air FL Cap. Bank / Independence Power & Light, MO

Qty(1) Open Air Shunt Capacitor Bank Connected Grounded Wye, 20.16MVAR @ 69kV (S=3, P=4), 350kV BIL, 60Hz, 3-Stack Arrangement, designed using six single-phase stacking units (racks), designed 3-stack, 2-high.

TYPE	Outdoor Substation Capacitor Bank
MVAR RATING (INITIAL)	20.16MVAR @ 69kV
MVAR RATING (FUTURE EXPANDED)	N/A
VOLTAGE RATING (NOM./RATED/MAX.)	69kV
BIL	350kV BIL
CONNECTION BANK	Grounded WYE
DESIGN	Fuseless
CAPACITOR UNIT (QTY: BUSHING)	2
PHASES(S)	3
FREQUENCY	60Hz
S	3
P	4
P (FUTURE EXPANDED)	N/A
Cap. Bank Unit Selling Price (USD):	\$71,950.00 each

Each 20.16MVAR Bank Assembly consisting of:

36-Capacitor unit, 560kVAr, 13.28kV, 150kV BIL, 2-bushing, 24.4" of creepage.

6-Rack, 8-unit, 9" spacing, 36"x45" center line-to-center line of mount. holes, edge mount, Galv. Steel.

3-Elevating Structure, 10-feet, footprint 36"x45" approx, Galv. Steel.

1-Lot of Base Insulator 23kV Class, 150kV BIL.

1-Lot of Inter-Rack Supporting Insulator 23kV Class, 150kV BIL (1st - 2nd Level).

1-Lot of Incoming and Neutral Supporting Insulator.

1-Lot of Hardware for Fuseless Design.

UNBALANCE PROTECTION PACKAGE Voltage Differential Protection Scheme:

6- Low Voltage Capacitor 167kVAr/825V for Unbalance.

3- Voltage Transformer ABB for Unbalance Protection, Ratio 800:250V (3.2:1), 95kV BIL.

3- Resistor 100Ω, 10W for Unbalance.

1- Terminal Junction Box for Unbalance Protection Kit.

1- Lot of Supporting Bracket to house Unbalance Protection Kit, Aluminum.

1- Lot of Hardware for Unbalance Kit.

Unit Design: For HV and LV Capacitor Units' information please refer to attached Unit Data Sheets.

ITEM#2: Additional Manufacturer's Support (OPTIONAL)

1 – Services from the manufacturer (1 day on site)

TOTAL PRICE:

\$10,000.00

Our Service Engineer is prepared to:

- > Check that all of the parts and pieces have been installed and connected according to the erection drawing.
- > Explain the procedure for locating a defective capacitor unit in a Fuseless capacitor bank (if applicable).
- > Take capacitance measurements to establish a benchmark for future comparison of measurements and to facilitate locating a defective capacitor unit.
- > Answer technical questions on the equipment purchased.

Notes:

-Add \$2,500.00 for each additional day spent on site.

-Please note that this service is subject to availability. Ideally, this service should be requested when ordering the Cap Bank(s). At a minimum, allow ten (10) working days dating from receipt by us of an official order and settlement of all details so that work can proceed without interruption.

-Work to be done prior to our arrival and equipment to be supplied by the customer: verify with ABB/service engineer to plan all activities.

-Please note that technical assistance related to protection and control relaying is to be provided by others.

ITEM#3: Spare Parts and Special Tools Pricing (Optional)

- HV Cap. Unit as per above Item#1.....\$ 1,950.00 each
- LV Cap. Unit as per above Item#1.....\$ 1,650.00 each
- PT as per above Item#1.....\$ 2,170.00 each
- Insulator 23kV Class, 150kV BIL.....\$ 390.00 each
- Portable Capacitance Bridge CB-2000.....\$11,670.00 each

Above offer is based on:

- The Bill of Material listed above. Any modifications to this bill of material should be reviewed with ABB Inc. prior to order entry. Neither "in-and-outs" nor Liquidated Damages are included.
- ABB INC. Standard T&Cs (see attached to the Bid Package).
- The Comments, Notes, Clarifications and Exceptions listed below.

Termination Liability / Cancellation Charges Schedule (Shunt Capacitor Banks)

- From 0 to 3 weeks after award.....10%
- From 3 to 5 weeks after award.....45%
- From 5 to 12 weeks after award.....90%
- For 12 weeks and above after award.....100%

Commercial Clarifications

- N/A

Comments, Notes, Technical Clarifications & Exceptions

- Based on our Engineering judgment and experience, the quoted banks will be designed and constructed to meet Seismic Loading Requirements per Seismic Zone 2 and 90 mph basic wind speed loading requirements (120mph gust) according to 1997 Uniform Building Code (UBC). **Base Loads:** Neither civil work nor foundation or anchor bolts design and associated hardware for use in owner's concrete foundations are scope of our work/supply. However, we normally provide information about the weight of Assembly, Footprints (anchor bolt plan) and Base Loads per leg according to the UBC Seismic/Wind loading requirements. Tensile, Compression and Shear Forces will be provided in order to enable others to design and make the foundations.
- Heavy Duty Capacitor Units included in above assemblies shall be designed to comply with IEEE St 18-2012 including 2 p.u. AC Test Level as well as -40/+50°C Temperature Limits requirements and 0/+10% lower/higher capacitance limits. HAPG will furnish production test reports for the Capacitor Units. At the request ABB shall provide design test reports which were already performed on similar / representative units. Capacitors will be fitted with two bushings having 32.28" creepage. Capacitor studs will have standard metric threads M16. For more information about Capacitor Units please refer to attached Unit Data Sheet. The Tests or Requirements that would go beyond of those specified herein and/or by IEEE Std 18-2012 are not included in above pricing.
- Capacitor Banks' and Capacitor Units' Nameplates shall be as per attached drawings. For information on Dielectric Fluid please refer to Faradol 600 MSDS.
- Capacitor Racks and Elevating Structures shall be made of Galvanized Steel. As per ABB's standard practice the Galv. Steel Hardware including flat and lock washers shall be used with all current carrying connections as well as with the connections which are not in the intended current path. Insulators shall be as described in above BOM.
- The lifting eyes are not required on the top of the rack - see explanatory Document attached to the Bid Package.
- Above Bank is designed for SB application (V/PF correction). String and Phase Capacitance shall be balanced within the lowest possible values based on the available quantity of manufactured Cap. Units.
- Pot. Device other than those depicted in above BOM, CLR's, Switching Devices, Skids, Gnd. Switches, Relays, Fences, Controllers or Cabinets are neither scope of this offer nor have been included in above pricing.
- The Bank Outline with 3-Line Diagram showing bank assembly and all major components shall be provided for customer's review and approval. Standard Documentation in the form of Instruction Manual shall also be provided as per ABB's standards and submitted at the time of Shipment.
- Above pricing is strictly based on and corresponds to quoted Bill of Material and above Notes, Clarifications & Exceptions. Equipment or services other than those described hereby are not scope of this supply/proposal.
- **Origin of Goods:** HITACHI ABB Power Grids (HAPG) reserves the right to supply Capacitor Units of the same quality and design from any of the ABB Hitachi Capacitor Facilities.

General Conditions

- Terms of Delivery: DAP Independence, MO (per INCOTERMS 2010).
- Lead Time: Shipment 18-20 working weeks after the receipt of formal drawing approval at our Quebec Eng. Technical Center (ETC). Approval Drawing will be available 3-5 working weeks ARO at our Quebec ETC, the Order to bear a full and complete Validity: This Proposal is valid for 30 days after the quotation date shown above.
- Lead Times may vary upon receipt of Order depending on the factory loading at the time of order entry.
- Payment Terms: Net 30 days / Prices are in USA dollars / Taxes are not included.

Please call if you have any questions.

Sincerely,

Miloš Skoko

Hitachi ABB Power Grids

*Notwithstanding the foregoing, the Parties recognize the proposed sales and/or purchase of the power grid division of ABB (a company headed by Hitachi ABB (the "Seller/Vendor"), which will be mainly owned and might be a wholly owned subsidiary, of Hitachi). In the contract, the Parties agree that ABB Parts assume right to subcontract, assign, transfer, lease or otherwise dispose of their contract and all of its rights and obligations under the Contract, without any limitation on the other Party, to either a legally separate ABB subsidiary or to the Seller/Vendor or any subsidiary of the Seller/Vendor's group. (The other Party) agrees, at the request and expense of (ABB Parts) to provide, without an equipment, add or other documents or evidence (whether oral or otherwise) required to effect such subcontract, assignment, transfer or novation. The Contract, and related to and hereunder, shall be paid by Seller/Vendor through their successors and permitted assigns.

AFFIDAVIT

STATE OF Iowa)
)
COUNTY OF Woodbury) SS.

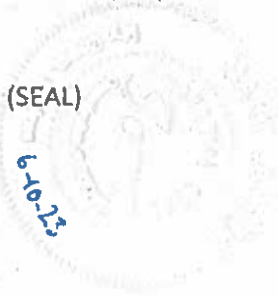
WESCO DISTRIBUTION of the City of SIOUX CITY
_____, County of Woodbury, State of Iowa

being duly sworn on her or his oath, deposes and says:

1. That I am the Sales Manager (Title of Affiant) of WESCO DISTRIBUTION (Name of Bidder) and have been authorized by said bidder to make this affidavit on the bidder's behalf;
2. No Councilmember, City Manager, Director of Finance and Administration, City Procurement Manager, or any City employee is financially interested in what the bidder is offering to sell to the City pursuant to this invitation, nor is the bidder a City employee or board member whose bid creates a conflict of interest. A conflict of interest would arise if any person named in this section is in a position to affect either the decision to solicit bids or the selection of the successful bidder;
3. Bidder has not participated in collusion or committed any act in restraint of trade, directly or indirectly, which bears upon anyone's response or lack of response to this Invitation; and
4. Bidder is responsible for submitting with his or her bid a record of any discussion with a Councilmember, City Manager, Director of Finance and Administration, City Procurement Manager, or any other City employee regarding this invitation; and
5. The authorized signer of this document certifies that the organization and each of its principals are not suspended or debarred by the City of Independence, State of Missouri or Federal government.

WESCO DISTRIBUTION (Name of Bidder)
By: Marilyn Meyer (Signature of Affiant)
Sales Manager (Title of Affiant)

Subscribed and sworn to before me this 30th day of June, 2021.



Mary Hansen

NOTARY PUBLIC in and for the County of Woodbury
State of Iowa

My commission expires: 6/10/2023