

KENTUCKY PUBLIC RIVERPORT CONSTRUCTION AND MAINTENANCE (KPRCM) APPLICATION

INSTRUCTIONS: A guidance document is provided to assist in completing the application packet and may be accessed at <https://transportation.ky.gov/MultimodalFreight/Pages/KPRCM.aspx>
See the guidance document for required attachments and acceptable methods of submittal.

SECTION 1: APPLICANT INFORMATION

PUBLIC RIVERPORT NAME		TOTAL PROJECT COST	KPRCM FUND REQUEST
Owensboro Riverport Authority		\$162,146.46	\$162,146.46
STREET ADDRESS	CITY	STATE	ZIP
1771 River Road	Owensboro	KY	42301
CONTACT NAME & TITLE	PHONE	EMAIL	
Brian Wright, President & CEO	270-663-4034	bwright@owensbororiverport.com	

SECTION 2: PROJECT DESCRIPTION

PROJECT TITLE	DURATION
Warehouse Autonomous Sweeper-Scrubber	3 months weeks

FACILITIES AFFECTED BY THE PROPOSED PROJECT

☒ Owned by Riverport Authority ☐ Leased to:

Briefly describe how the project will improve public riverport facilities and infrastructure, to capture the economic and trade potential offered by water transportation.: (Text limited for accurate printing. Attach additional pages as needed.)

The Owensboro Riverport Authority (ORA) offers approximately 500,000 square feet of indoor warehousing space across multiple facilities. These storage locations service multiple industries within the region and generate critical annual revenue for the riverport. It is essential to properly maintain each facility and provide clean, safe storage areas for the various types of goods handled.

ORA currently operates a 2003-model Tennant 8410-13330 scrubber-sweeper to maintain indoor facilities. The aging equipment, combined with outdated technology, requires increased maintenance time and cost, preventing staff from focusing on the movement of goods to support the volume demand of the port. This project seeks to replace the current unit with a new, autonomously operated scrubber-sweeper equipped with modern safety and performance features. Doing so will eliminate operator hours spent on non-volume work, reduce maintenance expenses, increase equipment reliability, improve cleanliness standards, and enhance worker safety and operational efficiency within the warehouse environment.

Select ONE: ☐ Applicant plans to use their own manpower, equipment, or materials on the project (Force Account).
☒ Applicant plans to competitively bid out all work related to the project.

TRAFFIC	CURRENT	AFTER PROJECT
Trucks per day	200-230	200-230
Train cars per week	40-50	40-50
Barges per week	6-12	6-12

FOR KYTC USE ONLY

Date Received:	WTAB Approval <input type="checkbox"/> Yes <input type="checkbox"/> No	Notification of Award: _____ MOA #: _____ Notice to Proceed: _____
Application Complete? <input type="checkbox"/> Yes <input type="checkbox"/> No	Sec. Approval <input type="checkbox"/> Yes <input type="checkbox"/> No	
Eligible Applicant? <input type="checkbox"/> Yes <input type="checkbox"/> No	Award Amount: _____	
Permits Needed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Award Date: _____	

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SECTION 3: PERMITS AND APPROVALS

	YES	NO
Has the applicant consulted with state and federal agencies (US Army Corps of Engineers, US Coast Guard, US Fish & Wildlife Service, KY Division of Water, KY Heritage Council, etc.)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has state and federal agency consultation determined permits are needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have all required permits (environmental, encroachment, etc.) been obtained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SECTION 4: SUBMISSION CHECKLIST *(See guidance document for details.)*

- ☒ Kentucky Public Riverport Construction and Maintenance Application
- ☒ Statement of Work
- ☒ Scope of Work
- ☒ Purchase quote or cost estimate for the project
- ☒ Project Schedule/Timeline
- ☐ Maps, aerial photos, drawings, and photographs, as needed
- ☐ Engineering plans, schematics, details, drawings of the proposed project, as needed
- ☐ Copies of all correspondence or evidence of consultation that has occurred with state and federal agencies, if applicable
- ☒ Required Affidavit for Bidders, Offerors and Contractors from applicant

SECTION 5: CERTIFICATION

I have read the Kentucky Public Riverport Construction and Maintenance Project Guidance Document and understand and agree to abide by what is stated therein. I agree that incomplete applications, applications missing any of the above required supporting documents, or applications received after the deadline, will be deemed ineligible by Division staff without consideration for KPRCM funds and returned to applicant. I also hereby certify, subject to the provision of KRS 523.100 (unsworn falsification to authorities), that the above information is true and correct to the best of my knowledge.

PRINTED NAME & TITLE	SIGNATURE	DATE
Brian Wright, President & CEO		11-7-25

Completed applications and all required attachments must be submitted electronically in PDF format. Paper copies will not be accepted. Emailed applications must be received by the Division by date indicated in call for projects. PDF copies shall be sent via email to: KYTC.ModalPrograms@ky.gov



KPRCM Application

Applicant Name: Owensboro Riverport Authority

Project Title: Warehouse Autonomous Sweeper-Scrubber

Date Submitted: November 7, 2025

Experience. Performance. Excellence.

1771 River Road ♦ P.O. Box 21955 ♦ Owensboro, KY ♦ 42304-1955

1 877 599-7929 ♦ (270) 926-4238 ♦ FAX (270) 683-3711

www.OwensboroRiverport.com



November 7, 2025

RE: Warehouse Autonomous Sweeper-Scrubber

Dear Sir or Madam:

The Owensboro Riverport Authority (ORA) is proud to be one of Kentucky's leading public riverports, moving over 1 million tons of cargo last fiscal year through integrated river, rail, and road operations. We are respectfully submitting our application for funding through the Kentucky Public Riverport Construction and Maintenance (KPRCM) program to support critical infrastructure improvements.

Your consideration of this request is vital to ensuring ORA can continue to meet the evolving transportation demands of our region and support statewide economic growth.

Sincerely,

Brian Wright
President/CEO

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Statement of Work

The Owensboro Riverport Authority (ORA) offers approximately 500,000 square feet of indoor warehousing space across multiple facilities. These storage locations service multiple industries within the region and generate critical annual revenue for the riverport. It is essential to properly maintain each facility and provide clean, safe storage areas for the various types of goods handled.

ORA currently operates a 2003-model Tennant 8410-13330 scrubber-sweeper to maintain indoor facilities. The aging equipment, combined with outdated technology, requires increased maintenance time and cost, preventing staff from focusing on the movement of goods to support the volume demand of the port.

This project will replace the aged unit with a new, electric autonomous scrubber-sweeper equipped with advanced safety systems, modern controls, and robotic navigation software. Key benefits include:

- Reduced operating and maintenance costs through improved reliability and fewer repairs.
- Reallocation of labor hours from equipment operation to cargo movement and customer service, directly supporting increased throughput.
- Improved worker safety, as manual operation of the unit will be minimized in high-traffic warehouse environments.
- Higher cleanliness and environmental efficiency, using a fully electric unit requiring only single-phase power.
- Future-focused technology investment, with onboard software capable of remote updates and optional features such as inventory cycle-counting capability.

This purchase provides ORA with a low-risk pilot opportunity to evaluate autonomous equipment in a controlled indoor environment. The outcomes will guide long-term decisions around workforce optimization, energy efficiency, and the integration of automation across future Riverport operations.

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Scope of Work

The Owensboro Riverport Authority (ORA) will procure one Warehouse Autonomous Sweeper-Scrubber to replace aging equipment, eliminate operator time spent, and maintain facilities to the standards expected by our customers. The project will follow a competitive bidding process in accordance with procurement policies. Upon receipt and evaluation of bids, ORA will award the contract and place the order for the new unit. The sweeper-scrubber will be integrated into daily operations upon delivery.



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Project Schedule and Timeline

Warehouse Autonomous Sweeper-Scrubber

January 2026 – Put equipment out for bid

February 2026 – Review bids

February 2026 – Place order

March 2026 – Receive Equipment

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Detailed Budget

Warehouse Autonomous Sweeper-Scrubber

Total Cost - \$162,146.46

GRAND TOTAL \$162,146.46

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Copies of correspondence or consultation with state and federal agencies:

Not Applicable

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T16AMR

MADE TO TACKLE THE MOST
COMPLEX ENVIRONMENTS, SO YOU
CAN DELIVER INCREASED EFFICIENCY

- Your ongoing champion in safety and innovation.
- A data-driven solution to empower operations.
- Helps to reinforce a culture of cleanliness.

tennantco.com

TENNANT

OUR TOUGHEST AUTONOMOUS SCRUBBER

GOOD FOR YOUR TEAM

T16AMR is your ongoing champion in safety and innovation

Leverage our **best-in-class software** and hardware to orchestrate a cleaning process **tailored to your needs**. Whether you prefer **hands-on control** or want to let our scrubber do the work autonomously, T16AMR is engineered to get the job done efficiently.

- Detergent-free, ec-H₂O NanoClean® Technology
- Stop and honk functionality
- A thorough clean in a single pass
- UL Verified



GOOD FOR YOUR OPERATIONS

T16AMR is a data-driven solution to empower operations

We know that for you every pallet and minute holds value. The T16AMR is **designed for complex environments**, so operators and managers can **reallocate resources as needed**.

- Dedicated Tennant customer success team
- Detailed usage reports
- 13/24-hour runtime with lithium-ion batteries
- Delayed start and area fill
- Lithium-ion batteries and opportunity charge (increased life cycles)
- Back-to-back route capability

GOOD FOR YOUR STANDARDS

T16AMR helps you reinforce a culture of cleanliness

By integrating autonomy into Tennant's already robust T16AMR scrubber, we've **reduced chances of human error**, enhancing the T16AMR's durability. And the limited oversight required by T16AMR can **free staff to focus on higher value tasks**.

- Field-tested AI powered by BrainOS®
- Intuitive user interface for quick and easy training
- Thorough training and fast service response
- Squeegee protection and debris plow
- Remote Assist Clear and maintenance diagnostics
- Yellow maintenance touchpoints

CASE STUDY: A MORE EFFICIENT PATH TO CLEANLINESS

How robotics helped CNH with efficiency goals

As a world-class producer of cutting-edge equipment and technologies for the agriculture and construction sectors, CNH Industrial knows the role innovation plays in solving the world's greatest challenges. So, when the company recognized a need to drive cleaning efficiency, they seized the opportunity to leverage T16AMR to deliver a unique advantage.

HOW IT STARTED

Despite extensive cleaning efforts, CNH's Lebanon facility struggled to maintain cleanliness standards efficiently. Labor-intensive methods and chemical use fell short of desired results, prompting a quest for improvement.

INTRODUCING T16AMR

Initially met with feelings of caution, the T16AMR, dubbed "GhostRider," proved its worth with consistent, detergent-free cleaning. Freed from manual tasks, CNH's staff redirected efforts towards value-added activities, boosting productivity.

OUTCOMES AND FUTURE PLANS

The success at the Lebanon site led to further investment in robotic cleaning technology across CNH's North American facilities. The facility manager highlights the alignment with sustainability values and plans to explore additional autonomous and eco-friendly solutions.



T16AMR'S ROI POTENTIAL

BY DAY	BY YEAR
15 routes	2,050 routes
14 hours	1,550 hours
335,000 ft ³	42,000,000 ft ²
SAVINGS ON LABOR: 40 hrs/wk labor @ \$26/hour = \$54,080 annualized labor savings	

* Rounded down to the nearest tenth

The numerical figures presented are representative of use cases and scenarios for informational purposes only and do not constitute CNH's true totals.

SEE T16AMR IN ACTION

Contact your sales representative to schedule a demo.

TENNANT

OWENSBORO RIVERPORT AUTHORITY
2300 HARBOR RD
OWENSBORO, KY 42301-9267
MICHELLE PAYNE

Bill Hatten
Tennant Sales and Service Company
10400 Clean Street
Eden Prairie, MN 55344
800-553-8033



Quote Date :

11/5/2025

US Date Rev - 10/6/2025

BUILT-IN "TENNANT VALUE" INCLUDES:

Manual and Autonomous Mode Operation
Cylindrical Scrubbing - 36 in (910 mm) path
One Set of Cylindrical Brushes (Select One)
Battery & Charger: Select Version
Controls: Manual Mode
 1-Step™ One-Button Scrub Operation
 Variable Water and Down Pressure
 Double Scrub Capable
Controls: Autonomous Scrubbing
 Touch Screen with Security PIN Access
 1-Step™ One-Button Scrub Operation
 Blue Start Stop Button
 10 Home Markers with 6 Routes/Marker
 Capability to Connect and Repeat Routes
 Mobile Device Pairing for Notifications & Alerts
Operator Manual and On-Board Learning Center Videos
Trailer Transport kit

Equipment Specifics:

ec-H2O™ Nano Clean Includes:

*Electrically Converted Water Technology System**Two Scrubbing Modes: ec-H2O™ & Conventional Scrubbing***Hygienic Non-Corrosive Duramer™ Solution and Recovery Tanks**

50 gal (190 L) Solution / 60 gal (225 L) Recovery Tanks

Parabolic Rear Squeegee**SmartRelease™ Breakaway System**

Linatex Squeegee Blades

Cast Aluminum Rear Squeegee Frame

No Tool Squeegee and Brush Change**In-Line Vacuum Fan Air Filter****High Visibility Maintenance Touch Points****Safety and Protection:**

Head/Tail Lights Joy Ride Detection

AV Backup Alarm HD Squeegee Protection

Turn Signals Non-Marking Tires

Forward Blue Lig On-Board Videos

Auto Parking Bra UL Type E Certified

TENNANT COMPANY WARRANTY
36 MONTHS OR 2000 HOURS - PARTS
24 MONTHS - LABOR
6 MONTHS - TRAVEL
10 YEARS ON DURAMER™ TANKS

Quote Request Information

<input type="checkbox"/>	Fax (quote only)
<input type="checkbox"/>	Mail (quote, I/L, specs)
<input type="checkbox"/>	Fax + Mail

Primary Use

<input type="checkbox"/>	Inside
<input type="checkbox"/>	Outside

Description	Reference #	Price Each	Qty	Extended Price
Standard Configurations (Note 1-6)				

T16AMR Autonomous Rider - Cylindrical Scrubber, ec-Nano® Cleaning Technology, 36v 11.5kWh (320AH) Lithium Battery, 90A 200-240V AC 50/60 Hz 1Ph Off-Board Charger w/FAST Charge Charging Port, UL® Type E, Safety Light Package w/Forward Blue Light, Linatex Squeegee, Heavy Duty Squeegee Protection, Standard Seat (see note 6 for charger)

T16AMR-2000

\$160,956.00

1

\$ 160,956.00

Choice of Charger, Brushes, Operator Manual, Service Manual, and Shipment Packaging available.

Base Configuration**Charger****For Li-Ion 36v, 11.5kWh Units:**

90A 200-240V AC 50/60Hz 1Ph - Off-Board (for Li-Ion Batteries) (note 6)

1253031

N/C

1

N/C

Brushes and Pads**Cylindrical Scrubbing Brushes (2 Required)**

Polypropylene Brush

1053893

N/C

2

N/C

Support (Note 7)

Standard Warranty

Reference Number

N/C

1

N/C

T16AMR Parts Manual

9021275

N/C

1

N/C

PrePaid ServiceProgram
Silver

Hour/Month

30/mo. (Avg. 1hr./d=

12

\$ 1,522.00

Machine Subtotal \$ 160,956.00**Discounts**

T16AMR5 1-4

Discount Total

\$ (1,177.56)

1

\$ (1,177.56)

Select Tennant Program

Approved by WEH

Prepaid and Add

Freight

\$ 846.02

1

\$ 846.02

FRT

GT

Quote/Order-Model T16AMR_Standard_Config

MACHINE TOTAL*				\$ 162,146.46
Is customer interested in financing?		<input type="button" value="Yes"/>		
Leasing Calculation Option:				
		Option 1		Option 2
	Monthly Payment	Cost Per Day	Monthly Payment	Cost Per Day
Purchase Option:		\$1 Buyout Lease		None
24 Months				
36 Months				
48 Months				
60 Months				
Benefits of Equipment Financing: • Spreads out investment over time. • Preserve capital. • Low monthly payment. • Keep current with latest technology. • Service and parts bundling available. • Pay for labor savings as you go.				
* All applicable sales tax will be add at time of order entry.				

TennantTrue

Term:		36	AB Brushes	<input type="button" value="No"/>
Monthly machine usage (hrs):		< 30/mo. (Avg. 1hr./day)		
TennantTrue:		Gold Contract	Silver Contract	
Per Visit			\$677	
Monthly		\$239	\$127	
Annually			\$1,522	
Pre-Pay Full Term		\$8,606	\$4,565	
Hourly Labor Rate		\$128	\$128	
Site Visit		\$122	\$122	

* Verify customer current pricing prior to quote.

**All rates and fees above reflect service for one (1) unit with the exception of Block of Time service.

Quote Special Instructions:

Notes

- 1 Standard Configurations are set configurations as listed and cannot be altered. However, these are partial configurations which require the selection of a Charger, Brushes, Operator Manuals, Service Manual, and Shipment Packaging.

Due to the integration of the AMR and the Lithium BMS, the T16AMR Lithium cannot be ordered without battery.

- 2 The battery compartment will fit six 6-volt batteries of this size:
- | Battery Size | Length | Width |
|--------------|------------|-----------|
| | 11.66 inch | 6.94 inch |
| | 295 mm | 175 mm |
- 3 Model T16AMR Continuous Runtime Chart.
- | | Battery Pack | |
|-------------------------------------|--------------|----------|
| | Flooded | Lithium |
| Base Unit (economy mode) (up to) | 360AH | 11.5kWh |
| Recharge Time @ fully discharged | 4.0 hrs | 5.4 hrs |
| Maximum 24hr Operating Time (up to) | 14.0 hrs | 4.0 hrs |
| | 5.3 hrs | 13.8 hrs |

The above runtimes are guidelines. Actual times will vary based on floor conditions, final machine configuration & usage

- 4 Expected Cycle Life: Cycle life is the number of charge cycles a battery is expected to last.
 360 AH Flooded Battery = 500 Cycles
 11.5 kWh Lithium Battery = 2000 Cycles
- 5 Lithium-Ion batteries require the use of an approved Lithium-Ion compatible charger. Use of an unproved charger may damage battery and void warranty.
- 6 The 90A Charger for the Lithium Battery pack is a 90A DC output charger. It requires single phase 220-240V AC 30 amp circuit and comes with a plug that fits a NEMA L6-30r twist lock recepticle.
- 7 Each T16AMR ships with an operator manual. Additional hard copy Operator and Parts Manuals can be ordered or digital copies can be downloaded from www.Tennantco.com.
- 8 This is a pass-through expense from Brain Corp. and cannot be discounted. This covers 3, 4, or 5 years of autonomy services and this service is required for autonomous operation of the T16AMR. All orders of the T16AMR are subject to Tennant's General Terms and Conditions available at <http://tennantco.com/terms> as well as the AMR End User License Agreement

Quote/Order-Model T16AMR_Standard_Config

available at <http://tennantco.com/amreula>.

- 9 Pad wrap available only in the Continental US and is the default packaging method.
Crate is mandatory when shipping to AK and HI. Packaging is added at No Charge when shipping to these locations.
Customer MUST order SKID or CRATE if WITHOUT BATTERY is selected.
Continental USA orders ONLY.

10 Shipping Weight and Dimensions

Weight (w/360AH Battery)
Length
Width
Height

<u>Pad Wrap</u>	<u>Crate</u>
1900 lbs / 862 Kg	2100 lbs / 953 Kg
74" / 1,880 mm	90" / 2,286 mm
42" / 1,067 mm	55" / 1,397 mm
58" / 1,473 mm	66" / 1,677 mm

Quote/Order-Model T16AMR_Standard_Config

Quote Date :

10/24/2025

Order Placement Information: To place your order, fill in PO# and customer signatures,
call or fax to the numbers listed below. Customer Purchase Order is required.
If information is missing, orders will be entered and held until all information is received. ***

Customer Number

4111185

Cust Grp 3

Who Owns the Machine? (Sold-To Info) (Please Verify)

Company

OWENSBORO RIVERPORT AUTHORITY

Address

2300 HARBOR RD

OWENSBORO, KY 42301-9267

Name

MICHELLE PAYNE

Phone

Where is the Machine Being Shipped? (Ship-To Info) (Please Verify)

Company

OWENSBORO RIVERPORT AUTHORITY

Address

2300 HARBOR RD

OWENSBORO, KY 42301-9267

Name

MICHELLE PAYNE

Phone

Shipping / Carrier Instructions:

Order Special Instructions:

Customer Purchase Order No.

(please attach copy)

Tax Exempt

If Yes, attach a copy of your exemption certificate.

Yes

No

Requested Delivery Date

Authorized Buyer (please print)

Phone Number

Authorized Buyer Signature ***

Bill Hatten

Tennant Representative

Specialized Maintenance Equipment
TENNANT - 10400 Clean Street - Eden Prairie, MN 55344 -
PHONE: 800-553-8033 - FAX: 763-513-2116

*** By signing to place the order you agree to the following terms and conditions:

Terms and Conditions

Ask your local sales rep for estimated lead times. Verify when placing order

All orders subject to acceptance by Tennant Sales and Service Company, Minneapolis, Minnesota

All orders of the T16AMR are subject to Tennant's General Terms and Conditions available at <http://tennantco.com/terms> and use of the T16AMR is subject to the AMR End User License Agreement available at <http://tennantco.com/amreula>.

Printed General Terms and Conditions are also available upon request.



**Required Affidavit for Bidders, Offerors
and Contractors
(KRS 45A.110 & 45A.115)**

Affidavit Effective for One (1) Year from Date of Execution

Instructions: Pursuant to KRS 45A.110 and 45A.115, a bidder, offeror, or contractor ("Contractor") is required to submit a Required Affidavit for Bidders, Offerors, and Contractors to be awarded a contract, or for the renewal of a contract. An authorized representative of the contracting party must complete the attestation below, have the attestation notarized, and return the completed affidavit to the Commonwealth.

Attestation

As a duly authorized representative for the Contractor, I swear and affirm under penalty of perjury, that that the Contractor has not knowingly violated campaign finance laws of the Commonwealth of Kentucky and that the award of a contract will not violate any provision of the campaign finance laws of the Commonwealth. For purposes of this attestation, "Knowingly" means that the bidder or offeror is aware or should have been aware of the existence of a violation. The bidder or offer understands that the Commonwealth retains the right to request an updated affidavit at any time.

Brian Wright
Signature

Brian Wright
Printed Name

President
Title

11-7-25
Date

Bidder or Offeror Name: Owensboro Riverport
Address: 1771 River Road
Owensboro, KY 42301

Commonwealth of Kentucky Vendor Code (If known): _____

Subscribed and sworn to before me this 7 day of November, 2025.

State of: Kentucky Notary: Carol R. Huff KYNP 70213

County of: Daviess My Commission Expires: May 21, 2027

