

# Retractable Rigid Catenary System (RRCS)



## Verticle Uplift of OHE



We Support



"Make In India"



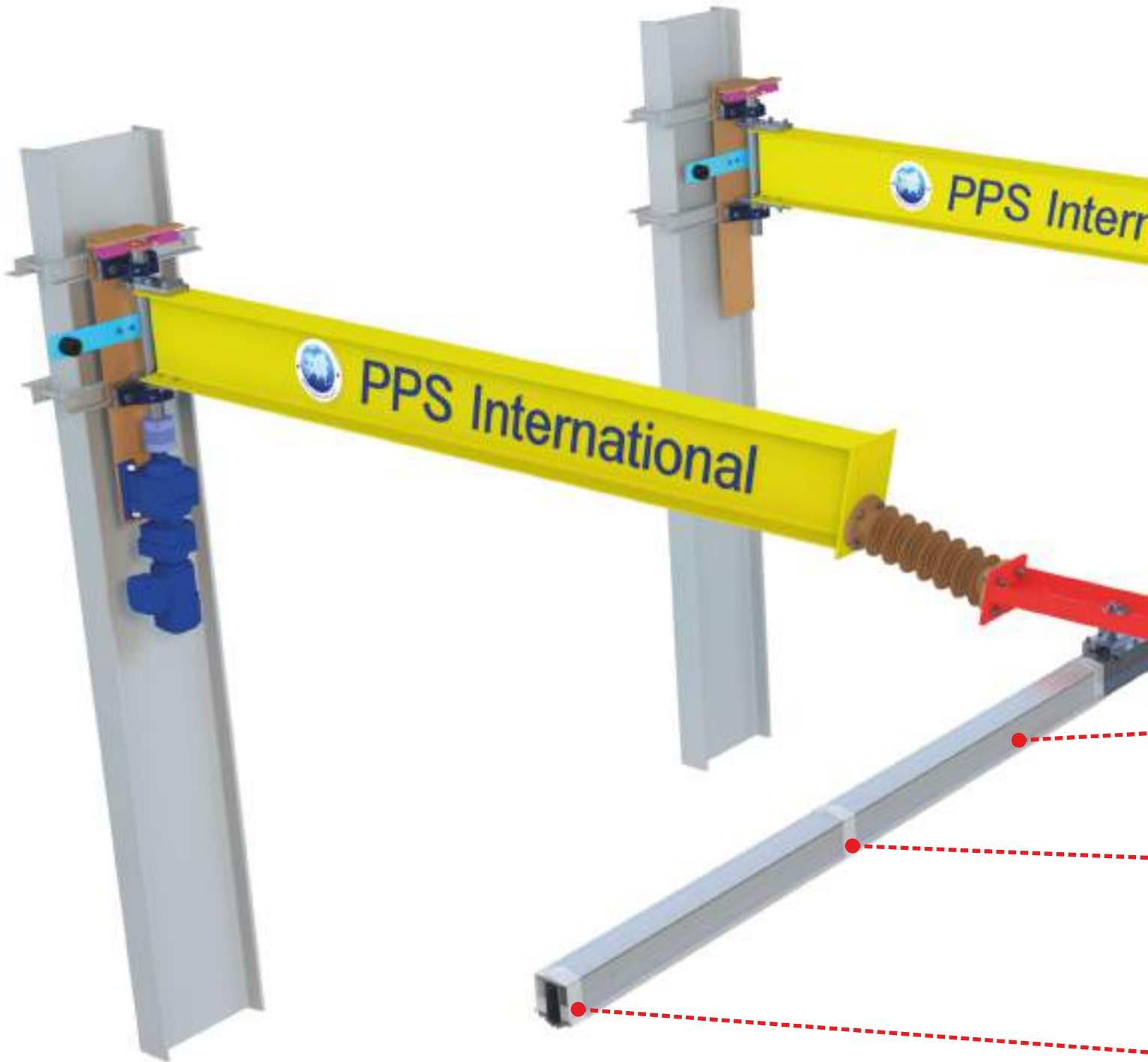
**PPS International**

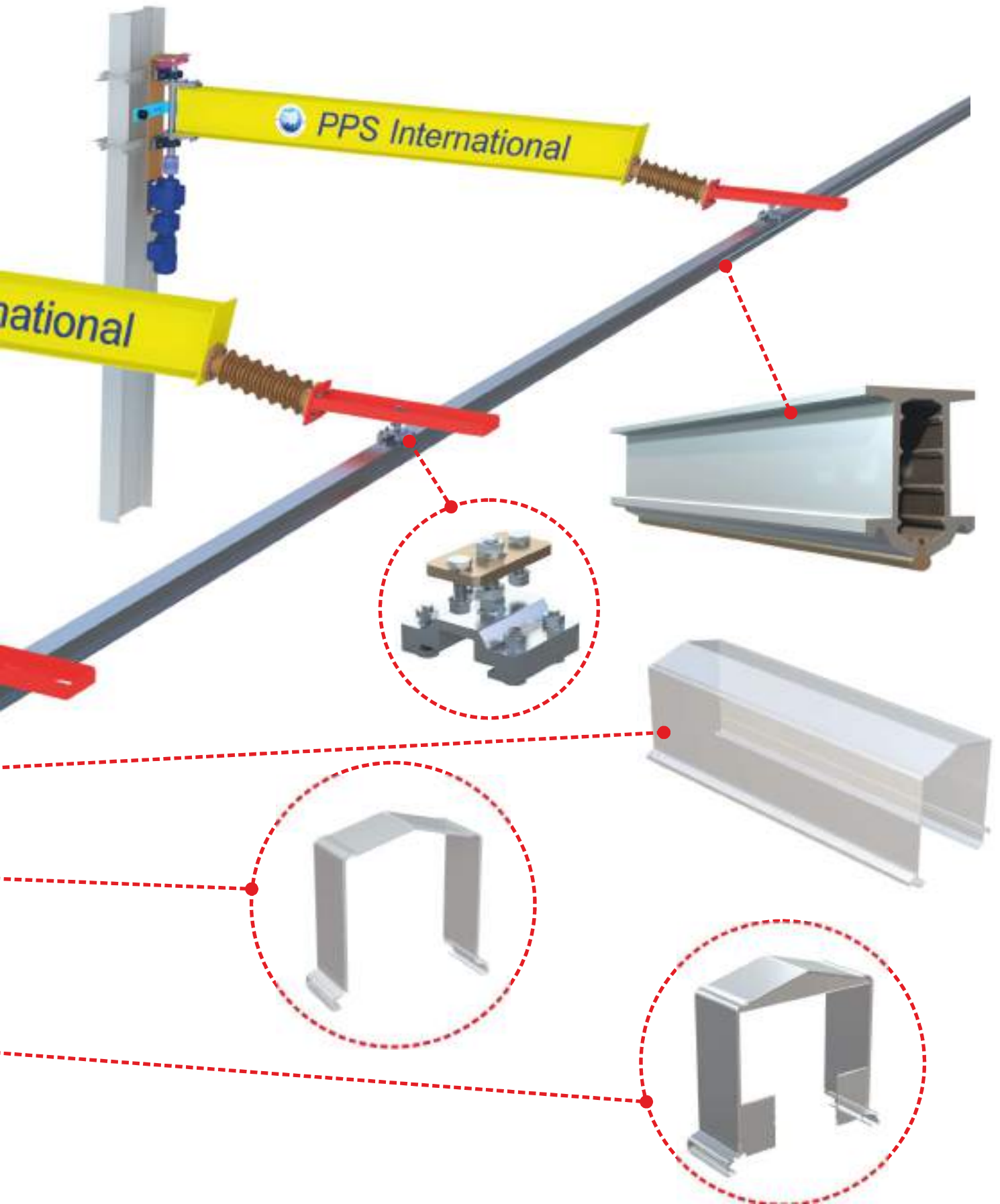
([www.ppsinternational.in](http://www.ppsinternational.in))

**IRIS**<sup>TM</sup>  
Certified



# Retractable Rigid Catenary





Ports



Coal Sidings



Coaching Depots



Metro Depots



Loco Sheds



Washing Line



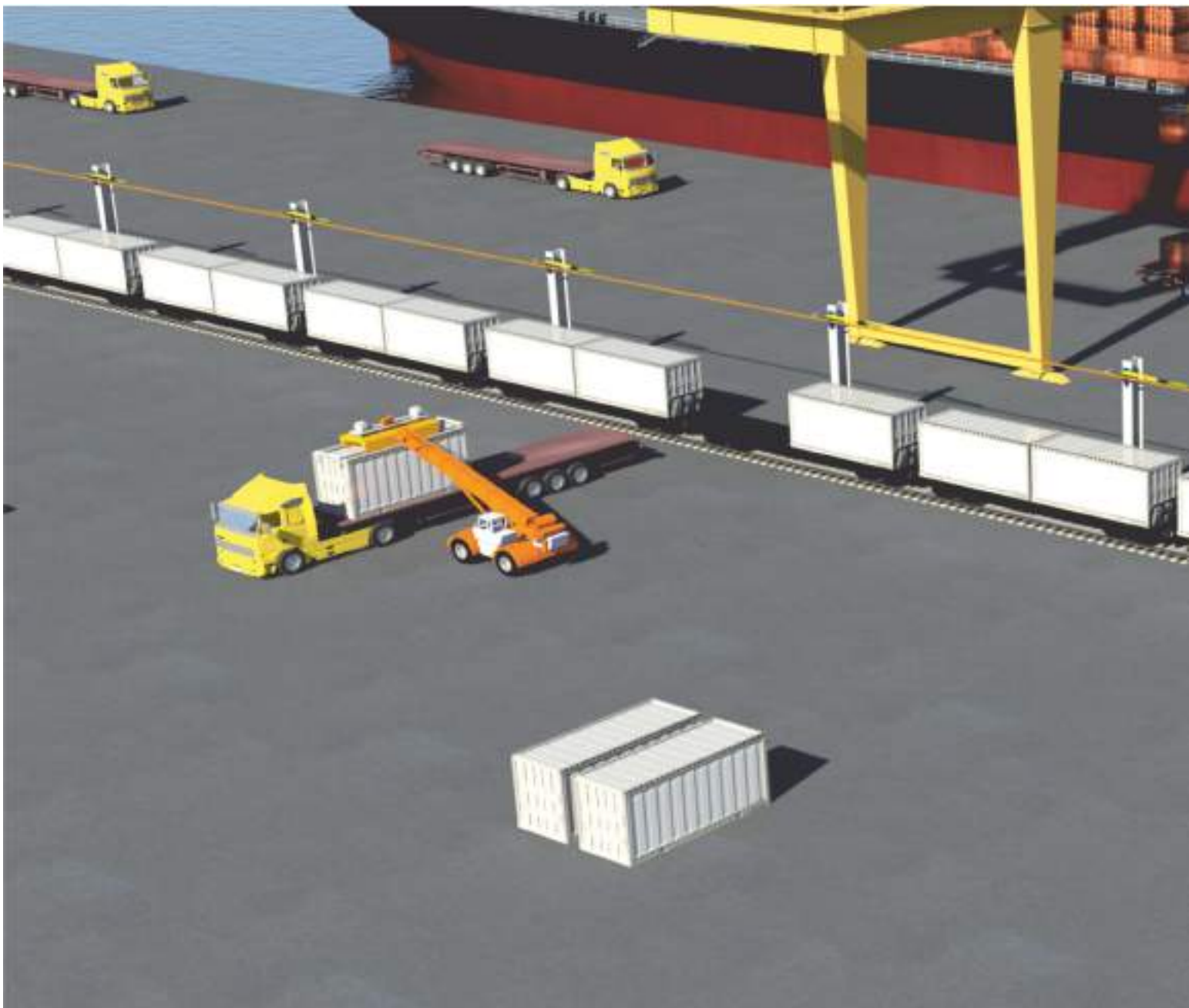


## Innovative Way to Elevate Port Operations with RRCS (A small step to make **Green Ports**)

The Retractable Rigid Catenary System (RRCS) is an innovative gateway to complete railway electrification at ports, and it is fully adaptable to meet your requirements to make **GREEN PORTS** by doing away with Diesel Locomotives.

When a freight train arrives at the loading/unloading area, a seamlessly orchestrated process unfolds. External switches take centre stage, expertly deactivating the power supply and effortlessly repositioning the RRCS in a different direction.

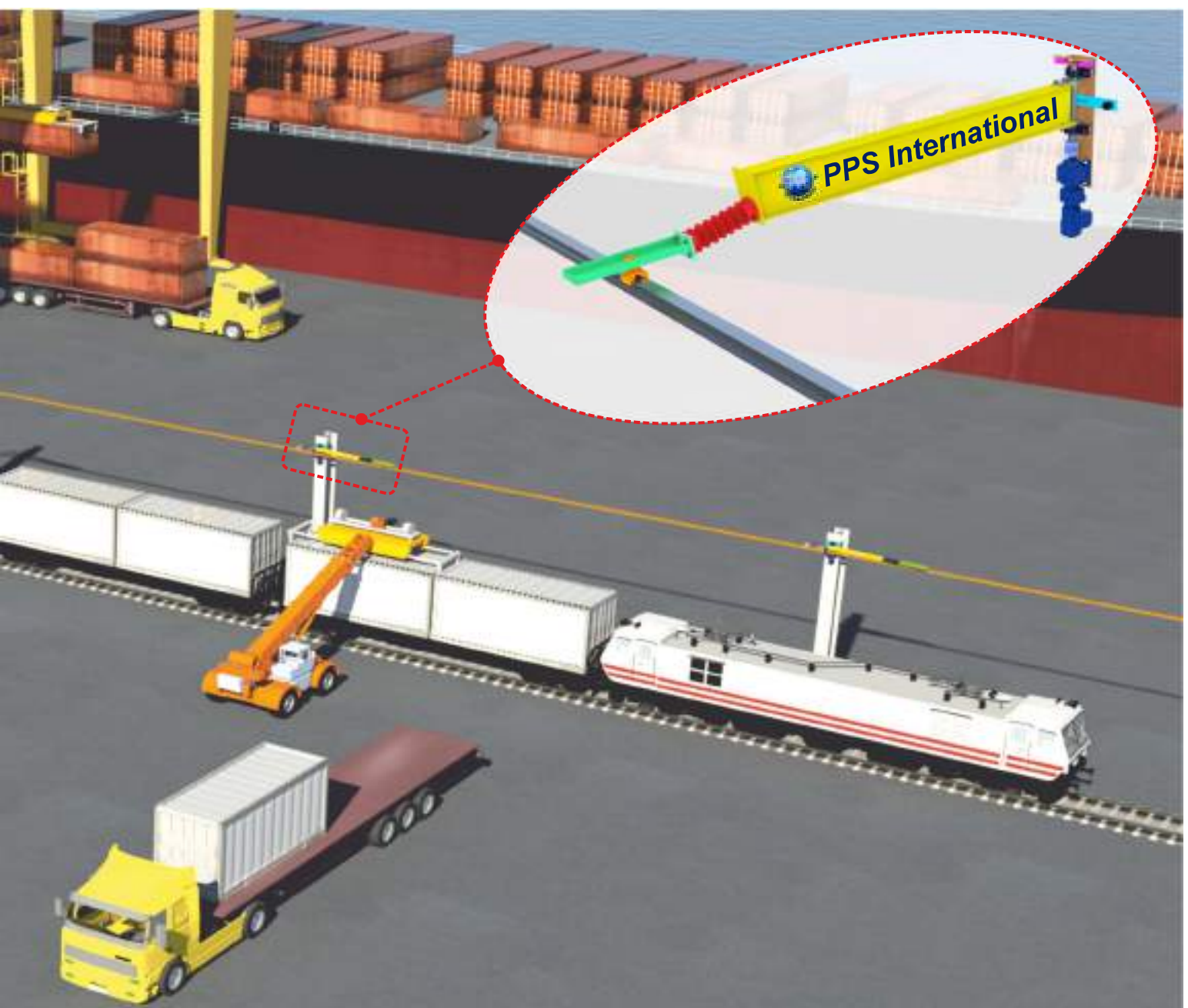
This ingenious manoeuvre opens the door for cranes to take over with unmatched efficiency, safety, and security when handling container loading and unloading operations.



## Safety is at the Core of RRCS

Safety is at the core of RRCS. This revolutionary system eliminates any potential risks to human life by rendering the electric current inactive in the lines during loading / unloading. The OHE gracefully retracts to the side, ensuring that the top of the train is free from overhead electrification.

Experience the pinnacle of safety and efficiency with RRCS - it stands as one of the safest and most reliable Overhead Electrification (OHE) solutions available for ports. Your journey to secure and efficient port operations begins here.





## Elevate Your ODC Transportation At Level Crossings

Introducing a game-changing solution that redefines the handling of Over Dimension Consignments (ODC) at level crossings (L.C.) with precision and innovation. The Vertical Uplift of Overhead Electrification (OHE) takes your operations to new heights.

This cutting-edge technology provides a tailored approach to ODC transportation, offering the flexibility to customize according to your specific requirements. When an ODC arrives at the L.C., a seamlessly orchestrated process comes to life.

Vertical uplift takes centre stage, ensuring the safe and efficient elevation of the OHE infrastructure. This revolutionary system eliminates potential risks and obstructions during transportation, making way for hassle-free ODC movement.





Through L.C. safety and efficiency go hand in hand with our Vertical Uplift of OHE, ensuring your ODC operations are not only secure but also streamlined for maximum productivity.

Say goodbye to the limitations of traditional ODC handling and embrace a future where innovation and safety lead the way. Experience the pinnacle of excellence with Vertical Uplift of OHE for ODC, where precision and efficiency redefine the way we transport oversized consignments. Your journey to a safer and more productive ODC handling process starts here.

With our system, you have the power to engineer customizations, including the retraction of the OHE back at Level Crossings (LC), making way to render LC completely free from OHE.



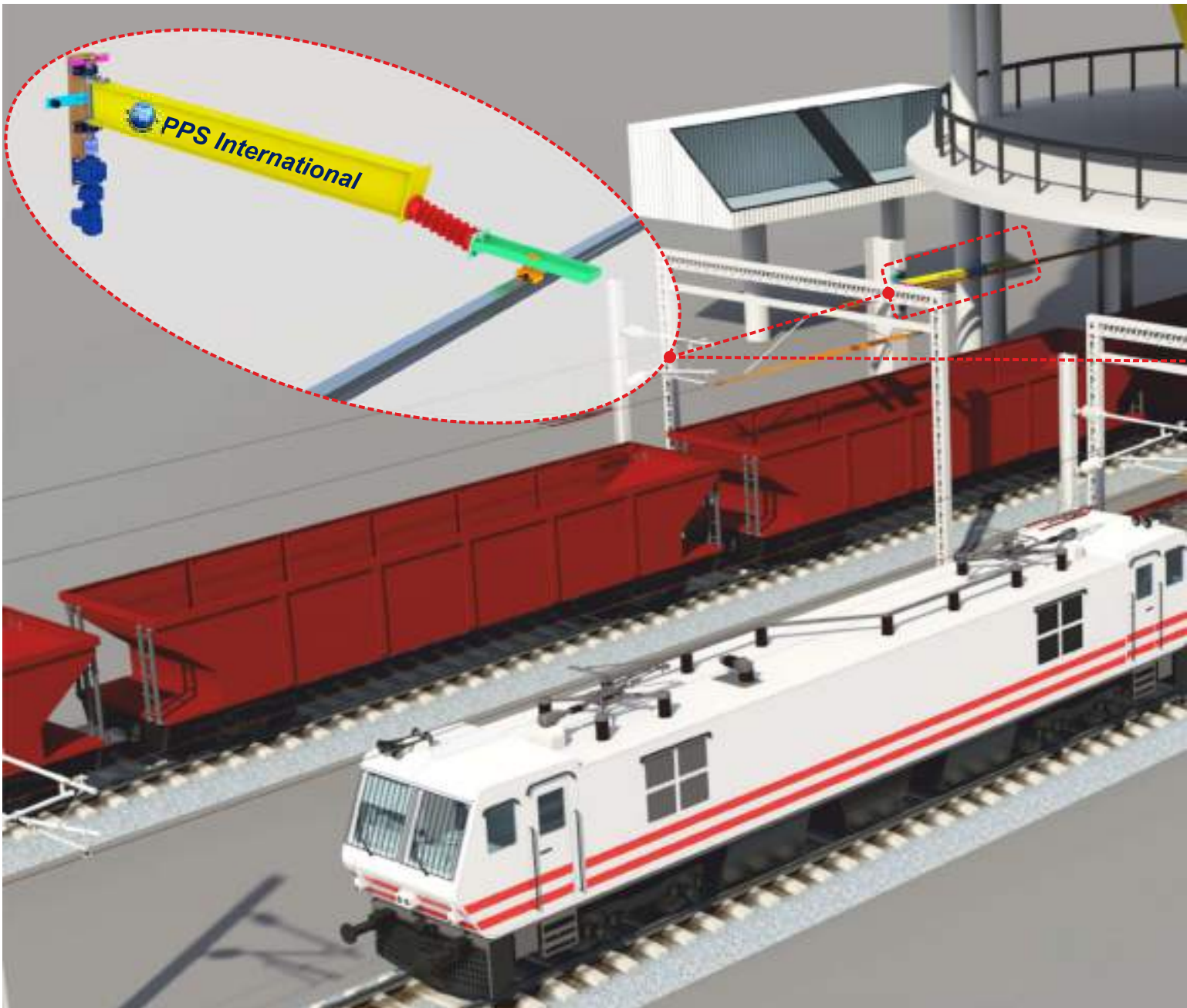


# Retractable Rigid Catenary System

## Transforming Coal or Ash Loading Operations to Rapid Loading

RRCS has ushered in a new era for coal loading operations at the SILO, delivering a transformation like never before.

By strategically installing RRCS at the loading point, we've harnessed the power of external switches to manage the current supply to OHE, enhancing the entire process. When a freight train approaches the SILO, a seamless transition ensures that the electric locomotive smoothly passes through the loading area under OHE power. Subsequently, the power to the coal or ash loading area is gracefully switched off, and the RRCS is expertly retracted from the loading area to the side, leaving the top free from OHE.

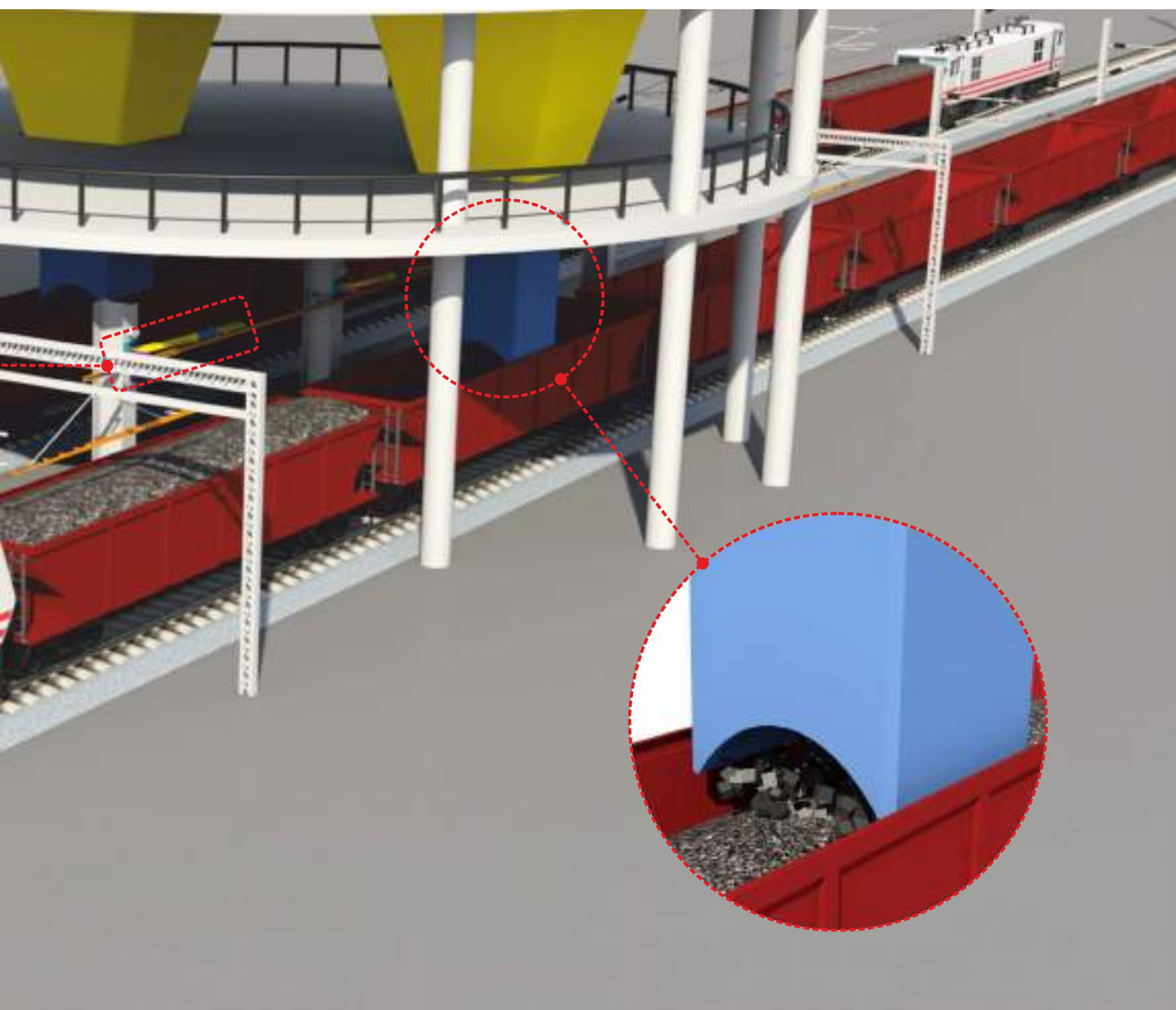


# (RRCS) For Coal Loading at SILO



This innovation doesn't just streamline the process, it also ushers in substantial petroleum savings and promoting environmental sustainability.

What truly sets RRCS apart is its unwavering commitment to safety, it ensures 100% security, completely eliminating any risk to human life during the coal loading process, besides it super charges efficiency by enabling rapid coal loading without the need for changing locomotives from electric to diesel or push from the back, allowing for assets to be utilized more efficiently, leading to faster rakes filling and enhanced productivity.





## Experience the Future of Railway and Metro Maintenance

Discover the future of railway and metro maintenance with our 100% ingeniously engineered Retractable OHE. This revolutionary technology is designed to elevate power transfer efficiency to new heights.

When a locomotive enters the depot, the RRCS empowers you with seamless activation and deactivation of the power source, while effortlessly retracting the overhead lines to the side.



This innovation not only streamlines maintenance procedures but also places safety at the forefront. The RRCS eliminates the potential for accidents and the loss of precious lives associated with high-voltage OHE lines.

Embrace the future of depot electrification with RRCS, where efficiency and safety converge to transform the way we power our locomotives and secure lives.



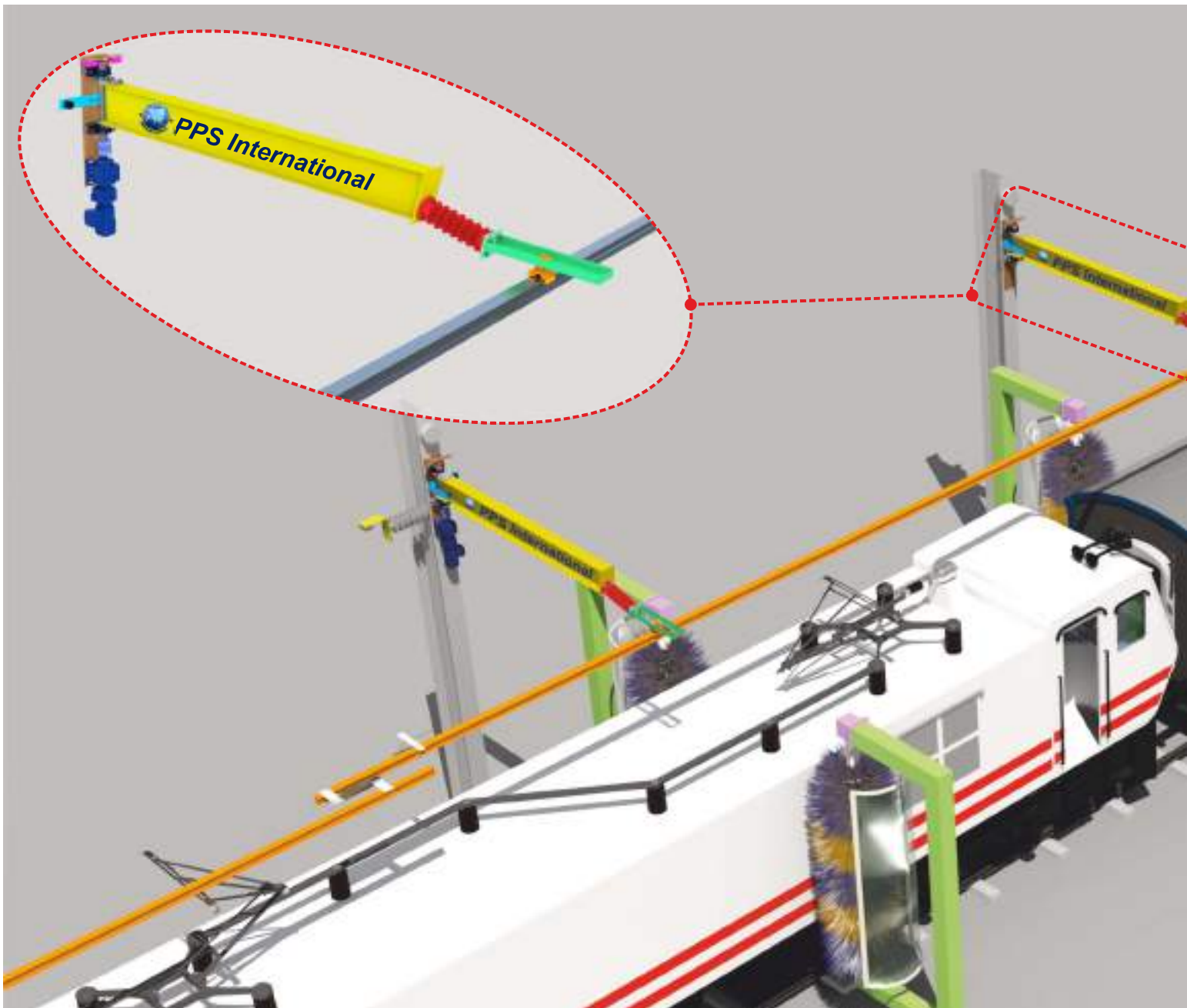


# Retractable Rigid Catenary System

## Revolutionize Train Washing

Discover the future of railway maintenance with the Retractable Rigid Catenary System (RRCS) designed specifically for Train Washing Lines. This cutting-edge technology is engineered to bring efficiency, safety, and innovation to the process of cleaning and maintaining trains.

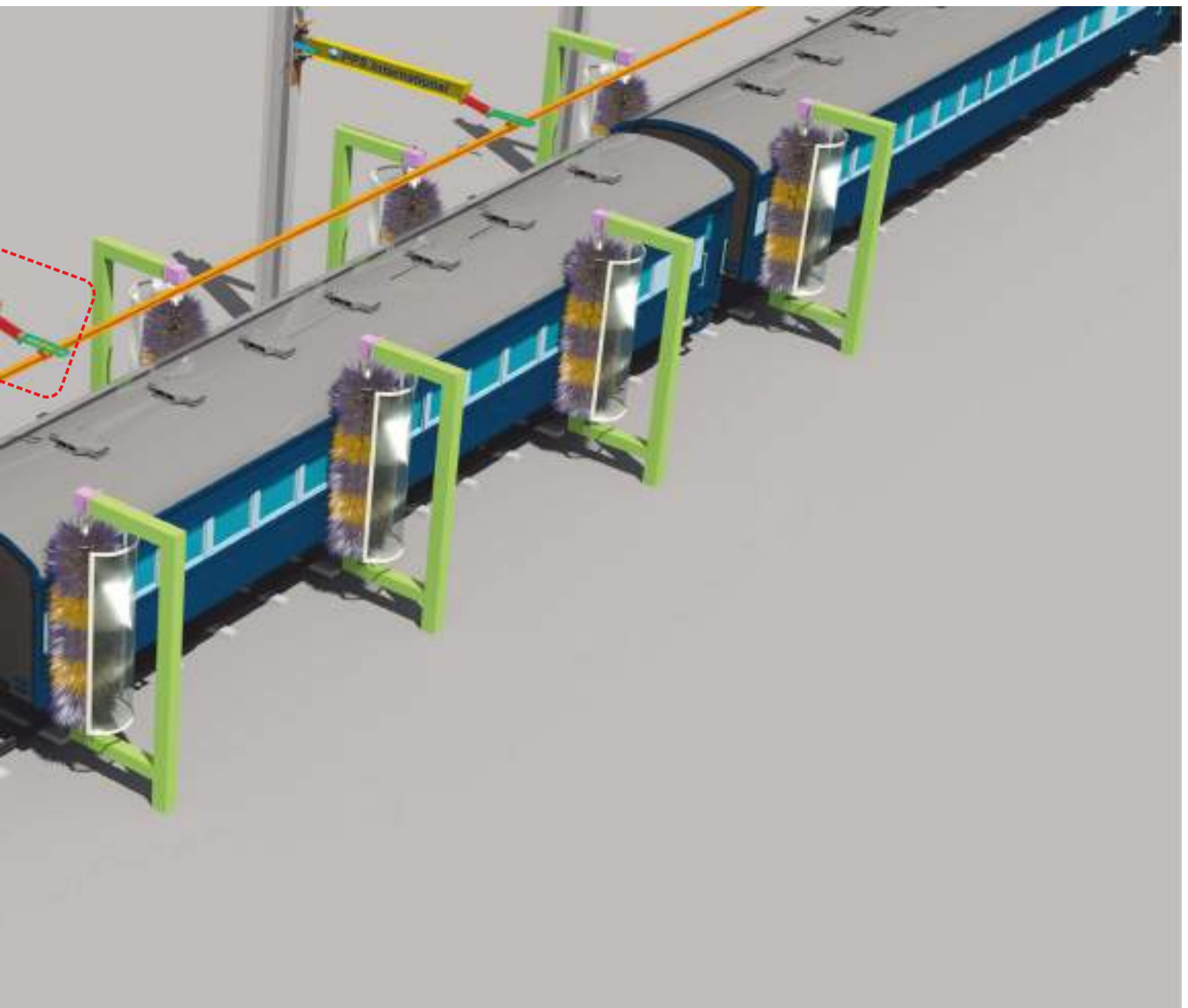
When a train enters the washing line, the power of RRCS comes into play. With seamless precision, it allows for the effortless activation and deactivation of the power source, enabling the overhead wires to be smoothly repositioned to accommodate the washing procedure.



# (RRCS) For Train Washing Lines



But RRCS is more than just efficiency—it's a game-changer for safety. By eliminating the potential risks associated with high-voltage overhead lines during the washing process, RRCS ensures the well-being of both the trains and the operators.





UNIT-2



**PPS International**

[www.ppsinternational.in](http://www.ppsinternational.in)

Unit 1 Corporate Office :-  
Plot No-32, Udyog kendra  
Ecotech- III , Greater Noida  
UP- 201308

Phone Number : +91-8800776682  
Email : [info@ppsinternational.in](mailto:info@ppsinternational.in)  
Website : [www.ppsinternational.in](http://www.ppsinternational.in)

Unit 2 :-  
Plot No-85, Ecotech - XII  
Greater Noida  
UP- 201306

Revision:- 1  
11/2023