



Technical Specification

Cork Fuelling Slab

Brief

There is a requirement to procure extra fuel facilities on the Cork Slab (Kent Station).

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1 Introduction

- 1.1 Irish Rail wish to procure the design, supply, commissioning, installation, calibration & warranty of 2 diesel dispensers, 2 AdBlue dispensers, 16 coolant dispensing points 6 lube oil dispensing points on the slab service area in Cork Station. We will require the supply, installation, & warranty of these from the successful bidder.
- 1.2 The fuel, Adblue, coolant and lube oil dispensing equipment will be used to increase supply and productivity in the servicing area. The minimum proposed product life of this dispensing equipment will be 20 years.
- 1.3 As per 1.1 above, proposals are to include the **delivery, installation & warranty** of equipment. The selected vendor must ensure that in meeting these deliverables, they always adhere to Iarnród Éireann's Safety management system, in particular CME- SMS-005.

2 General requirements

- 2.1 At the tender stage, a site visit to Cork (Kent) Station, will be permitted to allow contractors gain an insight as to the location, footprint, obstacles etc. This will assist them with pricing for the complete installation of the required equipment, including any transport or civils work that might be required prior to installation.
- 2.2 The dispensing equipment must be as ergonomic as reasonably practicable.
- 2.3 Where appropriate; wearable components must be easily interchangeable & available for maintenance.
- 2.4 A full testing and commissioning plan must be provided to IÉ along with manufacturer's warranty. The minimum level of warranty required is 12 months & this will take effect on completion of Installation.

3 Technical Requirements

3.1 Deisel Dispensing Specifications

The 2 new diesel dispensers to comprise the same equipment as currently used in the 6 existing diesel dispensing points.

- 2 off 1-1/2" spring driven Fuel Hose Reel Pt No: SLPF-850 Supplied with: 15 mtrs x 1-1/2" ID Texas S&D Diesel hose terminating in 1-1/2" BSP Female fitting and 1 mtr x 1-1/2" ID Feeder hose terminating in 1-1/2" BSP Female fitting.
- 2 off LC positive displacement flow meters with strainers, registers, pulsers.
- 2 off Banlaw BAR 800 nozzles c/w breakaway couplings and swivels
- All equipment mounted onto free standing galvanised frame
- Approx 80 meters of 2" pipework
- Install 2 additional diesel electrical control points in new positions from existing circuit.
- Supply and install 6 new dual controls for diesel and lube oil
- Stainless steel enclosures with start, stop, green light and emergency stop facilities for diesel and lube oil
- All labour, accommodation, plant hire

3.2 AdBlue Dispensing Specifications

The 2 new adblu dispensers to comprise exactly the same equipment as currently used in the 4 existing diesel dispensing points

- 2 off 1" hose reels F-560 series spring driven Pt No: S070-1603-600, Swivel Assembly: Stainless steel, Fluid Path: Stainless steel, Seals: Viton , Hose Capacity: 15 mtrs x 1" ID Hose
- 2 off Adblu pump control panels
- 2 off Adblu stainless steel dry disconnect nozzles with stainless steel breakaway couplings fitted upstream of nozzle
- All equipment mounted onto free standing galvanised frame
- Approx 80 meters of 2" stainless steel pipework
- Approx 80 meters of trace heating and cladding

- Install 2 additional electrical control points in new positions from existing circuit.
- Supply and install 6 new dual controls for diesel and lube oil
- Stainless steel enclosures with emergency stop
- All labour, accommodation, plant hire

3.3 Coolant Dispensing Specifications

To supply and install 16 off 3/4" F-550 series Spring driven Coolant Hose reel Pt No: 070-1408-515

- Fluid Path: Steel, Seals: Viton, Supplied with 15 metres x 3/4" ID 1 wire hose terminating in 3/4" BSP Female fitting c/w dry disconnect push in nozzle
- All equipment mounted onto free standing galvanised frames
- Approx 270 meters of 1" stainless steel pipework
- Existing pressure pump to be reused
- All labour, accommodation, plant hire

3.4 Lube Oil Dispensing Specifications

To supply install and commission 6 lubrication oil dispensing points including replacing existing pipework which is badly corroded.

- To supply and install and commission a lube oil dispensing system including 6 off 3/4" F-550 series Spring driven Coolant Hose reel Pt No: 070-1408-515
- Fluid Path: Steel, Seals: Viton, supplied with 15 metres x 3/4" ID 1 wire hose terminating in 3/4" BSP Female fitting c/w nozzle incorporating a display meter
- All equipment mounted onto free standing galvanised frames
- Approx 270 meters of 1" stainless steel pipework
- New pump Existing pressure pump to be reused
- Install 6 electrical control points c/w panel and pump controls.
- Supply and install 6 new dual controls for diesel and lube oil
- Stainless steel enclosures with start, stop, green light and emergency stop facilities for diesel and lube oil

- Approx 270 meters of trace heating and cladding
- All labour, accommodation, plant hire
- Price to include pipework from tank to pump and from pump to all 6 dispensing points.

4 TENDER BIDS

Tender bids will be evaluated based on the award criteria outlined in the contract documents

All commercial offers will be in a fixed price structure & will be in EUR.
(Excluding VAT)

5 Safety, Quality & Environment

5.1 Safety

- The contractor will be required to comply with The Railway Safety Act 2005 as well as all other current Workplace safety legislation during the project.
- The contractor will also be required to always comply with IE Safety Management System while on site.
- All contractor staff must hold a valid Personal Track Safety Certificate before commencing work on an IE site, details of how to arrange this certificate for staff are listed at the link below.

<http://www.irishrail.ie/about-us/third-party-works>

- The contractor will be required to provide a detailed Method Statement & Risk Assessments to demonstrate how they will control the Health & Safety of their staff and others during the planned works.
- The supplier will be required to submit all design & safety information as necessary to support IE Standard 14 Engineering Change Process including calculations, drawings, schematics, manuals, Risk Assessments, Failure Modes Effects Analysis, maintenance & operating instructions to demonstrate that the equipment is safe to operate, and all foreseeable hazards have been identified and addressed. All such information will be required to be submitted as the project progresses with major milestones of (i) prior to delivery, & (11) prior to handover to IE following successful commissioning & testing.

5.2 Environmental

- The contractor will be required to provide details of how they plan to manage & control any environmental risks during the project, in particular oil/grease spillage response in the event of a leak during system decommissioning, replacement & commissioning.
- Spill kits will be required during the project works.
- Most works are to be performed during daytime & the contractor should be aware of the close proximity of this noise sensitive area & take effective measures to manage noise levels during the project.

5.3 Quality

- The contractor will be required to provide details of how they plan to manage & control any quality risks during the project.
- The contractor will submit details of testing & commissioning planned to demonstrate conformance with its design & legislation requirements.
- IE reserve the right to undertake any inspections as it deems necessary including first article inspections at the supplier's premises prior to any equipment being delivered to IE.

6 Methodology & Program of Works

- The contractor will submit a detailed methodology & program of works as part of this tender containing details of the following.
- Detailed method statement for the works (nights & day work)
- Task specific risk assessments
- Details of specific resources including supervisory to be allocated to this project, detailing their relevant experience.
- A list of all staff that will be on site.
- Step by step process that will be followed by the contractor during works.
- Program, including start date/completion date/ key milestones & critical path.
- Health & Safety plan for this specific project demonstrating full compliance with these specification & appropriate current regulations.
- Programme for submittal of design & safety information
- The contractor will submit a detailed plan on how they will secure the work site in compliance with Third Party Works as defined at the following link
- <http://www.irishrail.ie/about-us/infrastructure/third-party-works>
- Details outlining how the contractor will fulfil its warranty commitments

- Appropriate consideration is to be given to a confined work site with wheelsets operating in close proximity
- Details of all machinery, plant & equipment to be utilised during the course of the project
- Arrangements for contractor's facilities & parking of vehicles, plant & equipment will also have to be arranged & agreed with I.E. in advance of any works commencing
- Any other assumptions, requirements the contractor may have on Irish Rail to complete this project or limitations in its tender bid
- The contractor is required to include for any and all obligations & restrictions imposed by the Employer with regards to access to and possession or use of the site as detailed in the Contract Documents.
- All site works can be completed during normal working hours 07:00 - 16:00
- The contractor is to include for all materials to be disposed of offsite including any statutory charges such as tipping fees.
- Provision of Personal Protective Clothing and Personal Protective Equipment
- Provision & maintenance of emergency routes & exits & designated personnel responsible for emergency procedures

7 Warranty

- A full 3 years warranty will be provided for the system which will take effect following safety approval, commissioning and handover of the system to IE.

8 Training & Demonstration

- The contractor shall undertake the following;
 - Demonstrate the Use of all dispensing equipment