

EPC Padeswood & Runcorn Onshore Expansion Pipelines for Liverpool Bay Carbon Capture & Sequestration Project

Scope of work brief:

The project is consisted of two packages as flow:

Package-1; WP 6a Padeswood Pipeline

Detailed Design, construction, installation, PRE-COMMISSIONING, COMMISSIONING without process fluid, and support to COMPANY after start-up to finalise COMMISSIONING of new a 16" CO2 pipeline from Padeswood AGI to Northop Hall AGI.

(The line pipe and Bends for New Padeswood Onshore Pipeline will be provided by COMPANY).

- Design and install the FOC; to connect the Onshore Pipeline Expansion facilities between the Padeswood and Northop Hall AGIs.
- Install the E-VPMS system (Eni Vibroacoustic Pipeline Monitoring System).
- Design and install associated piping, pigging facilities and fittings at pipeline ends.
- Design and Install Cathodic Protection (CP) System for the pipelines.
- Design and Install civil works relevant to pipelines installation.
- Civil works inside the Above Ground facilities (AGI).

Package-2; WP 6b Runcorn AGI to Ince AGI Pipeline

A new spur pipeline (20") will be installed between the Runcorn AGI and the Ince AGI (referred to as the Runcorn Pipeline). This pipeline will transport CO2 from the Viridor Runcorn Industrial CCS to the T&S system.

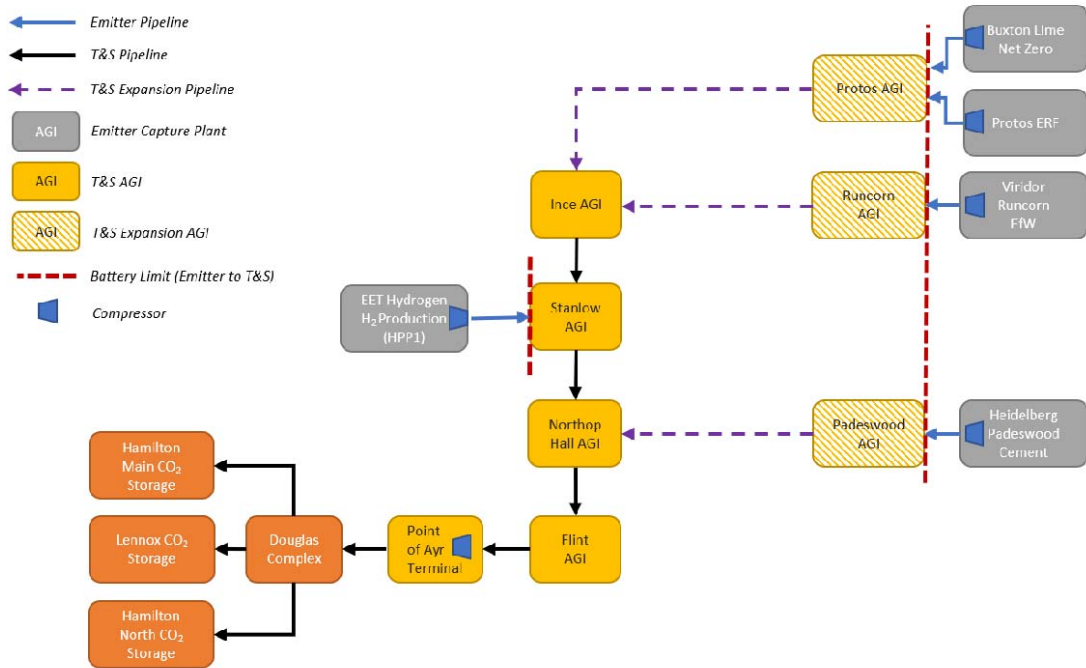
(COMPANY shall supply the ND (20") Line pipe and Bends for New Runcorn Onshore Pipeline)

The Runcorn Pipeline scope covers the engineering, procurement, construction, installation, PRE-COMMISSIONING and provision of COMMISSIONING support for new pipeline infrastructure to collect CO2 from the emitters and deliver the gas to the Above Ground Installation (AGI) at Ince for onwards transmission to the Point of Ayr (PoA) Terminal. Transmission of gas from Ince AGI to PoA is not part of CONTRACTOR scope.

The Runcorn pipeline comprises specific particularities that shall be considered by TENDERER during the bid phase and by CONTRACTOR during the detail design:
~ 3km of above ground section through existing Inovyn plant.

Weaver river crossing.

Soil stabilization works for the underground section.



Please provide contact details for Subcontractors/consultants for the following activities: -

Licenses and Permits Provider.

Trenchless crossings include Weaver river crossing.

Logistics Provider.

Hiring of labours and equipment.

Camp construction.

Temporary site facilities construction.

Inland transportation of pipes, material and Equipment.

Laying and splicing of electrical, telecommunication and instrumentation cables.

Insurance company.

Concrete work.

Environmental impact study.

Topographic survey, geotechnical survey, underground scanning and hydrological survey.

Engineering consultant includes HAZOP stud and QRA .

Cathodic protection system and deep wells.

None destructive tests.

Baseline survey.

Trenching excavation, embankments and soil stabilization.

Sand padding around pipelines and cables.

Sandblasting and coating of field joints girth welds.

Supply and installation of steel fences and gates.

Access Platforms, Cross-overs, Gratings, Stairs, Ladders and Handrails.

HVAC supply and installation.