

Outline Scope of works for Request for Information Stage.

In ABB's capacity as Principal Designer, Project Managers, and Consulting Engineers for the Client, South Tees Site Company Ltd, we are inviting your company to submit an expression of interest and potential bid against this restricted OJEU competition to supplement your inclusion on the list of Tenderers to be taken through to the second Request for Quotation stage competition for the above project. A competitive tendering process is being adopted in alignment with the Public Contract Regulations 2015 (as amended).

The Client is; South Tees Site Company Ltd, Teesside Management Offices, Redcar, TS10 5QW.

South Tees Site Company Limited (STSC) is a Government owned Company that is part of the BEIS (Business, Energy & Industrial Strategy) Department.

STSC has been appointed to maintain the safety of the former SSI Steelworks on the Redcar site. Steel manufacturing operations stopped at the SSI Steelworks in October 2015 when the company went into liquidation.

The site is classified as an Upper Tier COMAH site. STSC are in the process of decontaminating the former SSI assets in order to remove all Upper Tier COMAH materials, remove the site from the requirements of the COMAH Regulations and hence surrender the COMAH Permit.

The ammonia washers form part of the former SSI assets on the South Bank Coke Oven area of the Redcar site. Due to poor structural condition, STSC, as part of their commitment to the ongoing safety of the site, have taken the decision to demolish the ammonia washers.

The washers were subject to a dismantling project during 2019 and removal of access stairs, interconnecting platforms, man doors and some ancillary pipework has been undertaken. Due to an incident resulting in a fire in washers No.1 and No.2 during the previous dismantling project the dismantling of the washers was temporarily postponed. The incident is the subject of an ongoing Police and HSE investigation.

The primary aim of the successful contractor is for the safe demolition of all three towers as detailed below. However, at the time of the launch of this RFI, the root cause of the incident is yet to be determined. To this end the successful contractor will be asked to engage with STSC and the previous demolition contractor in order to insert agreed inspection points into the demolition programme. The aim is to allow key items of equipment to be viewed/inspected, wherever possible, which may assist in identifying the root cause of the incident.

Although this is not a request from the HSE, it should be known that the HSE is aware of this intention. This requirement should not influence the contractor's intended methodology for demolition and must not introduce additional risks by allowing personnel access to potentially unsafe areas/structures during the project. The requests for information and inspections will be designed to fit in with the safe method of demolition, agreed with the contractor in advance and should not delay the project.

The project will be managed under the CDM 2015 Regulations and as such any parties entering the demolition site may only do so with the full agreement of the Principal Contractor. Information gathered for inspection purposes may include but not limited to, the taking of notes from visual inspection, photographs and / or videos of equipment, including the use of a drone at various stages during the demolition.

Nature of Work

The work comprises the demolition/dismantling of redundant Ammonia Washers No.1, 2 and 3 including associated pipework and ancillary equipment with the use of cold cutting techniques only.



In addition to the dismantling/demolition of the ammonia washers the main works includes;

- Removal and disposal of all asbestos containing/other hazardous insulating materials.
- Removal of contaminants from all process plant/equipment to include, where necessary, primary and secondary cleaning of plant/equipment by high pressure/low volume water washing with the appropriate collection of generated wash waters.
- Segregation and storage of demolition generated wastes (with the exception of asbestos waste) into suitable containers/skips provided by STSC. The specification of these skips and containers will be determined by the Principal Contractor in conjunction with STSC.
- Analysis of wastes is to be carried out in order to determine hazardous/non-hazardous nature and properties of wastes, with WAC testing to ascertain suitability for landfill if appropriate.

The ammonia washers are approximately 42m high and 4.8m in diameter and are of riveted carbon steel construction. Internal supports/strengthening members are evident throughout the height of the vessels with a water/gas distribution sections at upper and mid-height levels. The upper and lower sections of the vessels are believed to be packed with tanalised timber to assist with the absorption of ammonia gas into the water stream which may be entrained with various chemical contaminants from the coke oven gas stream including, naphthalene, coal tar, benzene etc.

Chemicals that are likely to be encountered on site could be but not limited to:

- Crude Coal Tar
- Naphthalene
- N₂ - Nitrogen
- Waste Oils and Wash Oils
- Ammonia Liquor
- Coke Oven Gas Condensate
- Coke Oven Gas Residues
- Gas Condensate
- Pyrophoric Scale (Iron Sulphide (FeS))
- Benzene
- Absorbing Oils [Creosote & Petroleum]
- Hydrogen Sulphide gas
- Ammonia Gas
- Products of combustion as result of involving all of the above

The Site

The Ammonia Washers are located on the former SSI South Bank Coke Ovens site, Redcar, Middlesbrough TS6 6UJ and are in close proximity to live operational assets, hence all aspects of the project will need to be carefully planned and managed with the safety of all parties considered paramount. Minimisation of disruption and efficient liaison with neighbours and local authorities are to be of a high priority.



The use of the appropriate technology and consideration of remote machine/mechanical intensive means to demolish the ammonia washers, in order to reduce the impact of personnel working in close proximity to the ammonia washers, should be prioritised.

Any bidder being taken through to RFQ stage will need to ensure that their organisation or proposed sub-contractors are in possession of an 1 year Asbestos Removal licence as well as ensuring their staff hold CCNSG Safety Passport as a minimum (or equivalent CCDO/CPCS qualifications) as this will be a minimum requirement to work on the Ammonia Washers

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