

SME Energy Efficiency Scheme (SMEES)

Request for Quotation (RfQ)

We are seeking quotations for the project as described below. Please ensure that any proposals address every detail of the specification and general requirements in order for them to be considered. The company requesting the quotation (details below) is not required to consider any quotations that do not meet all of the aspects of this document.

The SME Energy Efficiency Scheme (SMEES) is an initiative led by Tees Valley Business, which is the local growth hub for Tees Valley and part of the Tees Valley Combined Authority, to support SMEs in the Tees Valley to improve energy efficiency and save money.

SMEES is part funded by the European Regional Development Fund (ERDF) as part of the European Structural and Investment Funds Growth Programme 2014-2020. Support is delivered by technical specialists at Narec Distributed Energy, and is fully-funded for SMEs with trading addresses within Darlington, Redcar & Cleveland, Hartlepool, Stockton-on-Tees and Middlesbrough.

Details of the opportunity

One of the companies or Small and Medium-sized Enterprises (SMEs) participating in the SMEES project is currently seeking quotations from suitably qualified and experienced organisations to supply and install a **new, energy efficient air compressor** at their trading address.

Company requesting quotation

Legal name	Katmex Limited
Trading address	Bowron Street, Norton, Stockton-On-Tees
Post code	TS20 2BH
VAT number	278494349

Contact details

Contact name	Lee Cranston
Email	lcranston@katmex.co.uk
Phone	01642 357618

Specification

A new, VSD powered compressor is required to replace the two older compressors currently in use as described below.

Background

The site currently uses two compressors to supply compressed air for the factory, via a single receiver volume of 1.5m³. These compressors are:

Boge S60-3 45kW

Renner RS 2-30 30kW

The compressors are used in tandem, with the Renner unit supplying the baseload pressurisation up to 8.0 bar and the Boge unit supplying the remaining pressurisation up to 8.5 bar, with an overlap of 0.5 bar covered by both units. The minimum receiver pressure is 7.0 bar, giving an overall pressure band of 1.5 bar.

On-site monitoring of compressor operation has indicated that, over an average 24-hour period, the Boge unit operates in 'unload' for 31% of the total operating time, 'load' for 43% of the time and 'off' for the remaining 26%. The Renner unit operates in 'load' for 72% of the time and 'off' for 28% of the time.

Requirement

Quotations are now sought for the replacement of these two compressors with a single unit with improved energy efficiency. This unit is to be sized by the supplier, but must meet the demands of the site, and therefore it is expected to be in the region of 75kW. As well as having a VSD main drive that can eliminate compressor unload operation, the motor(s) should be more efficient in all modes of operation. It is therefore anticipated that the upgrade will result in the elimination of virtually all unload operation and show a motor efficiency improvement from approximately 92% (existing equipment) to above 95%.

Quotations must include supply of the proposed replacement compressor, installation onto the existing compressed air system, connection to existing ventilation system and complete testing, commissioning and handover.

Prospective suppliers will preferably have membership of BCAS or equivalent.

A site survey and inspection of the current setup is possible although this must be arranged in advance via the contact named above.

Please see further general requirements overleaf.

What is required from all interested parties

A quotation must:

<input type="checkbox"/>	Be on letterhead or clearly identify the legal entity quoting (name of limited company etc.).
<input type="checkbox"/>	Make reference to this RfQ document.
<input type="checkbox"/>	Be dated with a validity period. To allow the procurement process to be completed, quotations must be valid for a minimum of 30 calendar days.
<input type="checkbox"/>	Fully meet the specification or detail how an alternate solution is more appropriate.
<input type="checkbox"/>	Clearly state the manufacturer and model number(s) being specified, and the quantity and proposed onsite location(s) of each.
<input type="checkbox"/>	Provide manufacturer datasheets for products and detail within the quotation how many of each specific type of product are to be installed.
<input type="checkbox"/>	Clearly state the warranty period(s) for the proposed equipment, as well as the workmanship.
<input type="checkbox"/>	State the total amount, both excluding and including VAT.

How successful supplier/candidate will be chosen

The procurement decision will be made by the company requesting the quotation and not by the SMEES delivery team. A contract will be awarded based on the following criteria:

- Total cost
- Performance of the carbon saving equipment
- Overall level of suitability of the carbon saving equipment
- Qualifications and level of relevant experience of the supplier/candidate.

Deadline and details of how to apply

Quotations should be submitted to the email address under contact details on page 1 of this document.

This advert was issued on 17/09/2021 and the deadline for responses is 23:59 on **01/10/2021**.