

**Tender Specification:** Supply of Sound & Vibration Monitoring Equipment and Supporting Infrastructure  
**Issued by:** NOVA Acoustics Ltd  
**Date:** 19/03/2026

## 1. Introduction

NOVA Acoustics Ltd is an acoustic consultancy providing environmental noise and vibration monitoring services to infrastructure, construction and environmental projects across the UK. We are seeking suppliers to provide modern digital monitoring equipment and supporting infrastructure to upgrade our current monitoring capability. The new systems will enable remote data access, real-time monitoring and long-term unattended deployments, improving efficiency and reducing the need for repeat site visits.

Suppliers are invited to submit proposals for the supply of:

- Environmental noise monitoring systems
- Vibration monitoring systems
- Solar power systems for remote deployments
- High-specification laptops for field staff

## 2. Scope of Requirement

The equipment supplied must be suitable for continuous outdoor monitoring in construction and environmental environments, with remote data access and reliable long-term operation.

### 2.1 Environmental Noise Monitoring Systems

Suppliers should propose integrated environmental noise monitoring stations suitable for unattended outdoor operation.

Minimum requirements include:

- Class 1 sound level measurement compliant with IEC 61672-1 or equivalent
- Measurement of standard environmental noise parameters (e.g. LAeq, Lmax, Lmin, Lpeak, statistical levels)
- Wide measurement range suitable for environmental monitoring
- 1/1 or 1/3 octave frequency analysis capability
- Integrated data logging with configurable logging intervals
- Wireless connectivity (4G or equivalent) for remote data access
- Remote configuration and automatic alert notifications
- Weatherproof outdoor enclosure suitable for long-term deployment

- Integrated battery and compatibility with solar power systems
- Desirable features include audio event recording and integration with cloud-based monitoring platforms.

## 2.2 Vibration Monitoring Systems

Suppliers should propose wireless vibration monitoring systems suitable for monitoring vibration from construction and infrastructure activities. Minimum requirements include:

- Triaxial vibration measurement
- Measurement of Peak Particle Velocity (PPV) and vibration frequency
- Continuous monitoring with event detection and alarms
- Data logging and remote data access via wireless communication
- FFT or equivalent frequency analysis capability
- Compatibility with recognised vibration monitoring standards (e.g. BS 7385, DIN 4150, ISO 4866)
- Weatherproof design suitable for long-term outdoor monitoring
- Battery operation with compatibility for solar power systems

## 2.3 Solar Power Systems

Solar power systems are required to support long-term monitoring deployments where mains power is unavailable. Systems should include:

- Solar panels with battery storage
- Charge control and power management
- Compatibility with supplied monitoring equipment
- Reliable operation in typical UK environmental conditions
- Portable and robust design suitable for field deployment

## 2.4 Laptop Hardware

Four high-specification laptops are required for field staff to support data processing, analysis and reporting. Minimum requirements include:

- High-performance processor suitable for technical software
- Minimum 16GB RAM
- Solid-state storage (minimum 1TB recommended)
- Portable design suitable for field work
- Display approximately 14–15 inches

## 3. Delivery and Support

Tender submissions should include:

- Supply and delivery of equipment

- Initial system setup and configuration where applicable
- User training and documentation
- Warranty and technical support arrangements
- Estimated delivery lead times

#### 4. Project Quantities

##### Noise Monitoring Systems:

- 5 No. Environmental Sound Level Meters, as per the specification above.
- 5 No. Handheld Sound Level Meters including all weatherproof enclosure, as per the specification above.

##### Vibration Monitoring Systems

- 5 No. Environmental Vibration Meters, as per the specification above.

##### Solar Power Stations

- 5 No. Solar Power Stations, as per the specification above.

##### Laptop Hardware

- 4 No. Laptops

#### 5. Supplier Information

Tender submissions should include:

- Description of the proposed equipment and solution
- Technical specifications
- Delivery timescales
- Warranty and support arrangements
- Relevant experience supplying environmental monitoring equipment

#### 6. Evaluation Criteria

Submissions will be evaluated based on:

<b>Technical Solution</b>	
<b>Criterion</b>	<b>Scoring (1–5)</b>
Suitability of proposed sound monitoring equipment for environmental monitoring	
Suitability of proposed vibration monitoring equipment for construction and infrastructure monitoring	
Reliability and durability of equipment for long-term outdoor deployment	
Quality and usability of remote monitoring and data access capabilities	
Compatibility of solar power systems with monitoring equipment	
Overall technical quality and robustness of the proposed solution	
<b>Support, Training &amp; Aftercare</b>	
<b>Criterion</b>	<b>Scoring (1–5)</b>
Availability of technical support and assistance	

Warranty coverage and service arrangements	
Provision of training, documentation and user guidance	
Responsiveness and accessibility of ongoing technical support	
<b>Cost &amp; Value for Money</b>	
<b>Criterion</b>	<b>Scoring (1–5)</b>
Overall value for money of the proposed solution	
Transparency and clarity of pricing	
Balance between technical performance and cost	
Whole-life value including reliability and support	
<b>Risk &amp; Compliance</b>	
<b>Criterion</b>	<b>Scoring (1–5)</b>
Compliance with relevant technical standards	
Reliability of equipment and risk of system failure	
Environmental and operational suitability for field deployment	
Confidence in supplier’s ability to deliver equipment on time	
<b>Past Performance &amp; References</b>	
<b>Criterion</b>	<b>Scoring (1–5)</b>
Evidence of successful delivery of similar equipment	
Relevant client references or case studies	
Reputation and credibility of supplier within the sector	

## 7. Procurement Context

NOVA Acoustics Ltd is undertaking an open and transparent procurement process. Suppliers should note that we are seeking best overall value, considering technical suitability, reliability, support and scalability, not solely cost.

## 8. Key Dates

- Tender issue date: 19<sup>th</sup> March 2026
- Tender deadline: 31<sup>st</sup> March 2026
- Clarification questions deadline: To be submitted by email no later than 3<sup>rd</sup> April 2026
- Anticipated decision date: April 7<sup>th</sup> 2026

## 9. Submission Details

Tender responses and clarification questions should be submitted by email to:

NOVA Acoustics Ltd – Adam Martin – Adam.m@novaacoustics.co.uk