**CHOBHAM AND DISTRICT RIFLE CLUB**

**CLUBROOM ALTERATIONS AND REFURBISHMENT PROJECT.**

**NOISE IMPACT ASSESSMENT.** February 2024

**Introduction.**

Planning permission (23/1025/FFU) has been granted for re-cladding the existing clubroom and indoor ranges. This Noise Impact Assessment seeks to demonstrate the re-cladding with modern materials will improve the attenuation of noise from the small-bore rifle shooting in the range.

In making this assessment it should be noted that the Club has been in existence on the present site for around 100 years and it is believed no noise complaints have been made.

**Existing Fabric.**

As noted above the building was built around 100 years ago and typically for this type of building was constructed with corrugated steel on a timber purlins and trusses to the roof and timber studs to the walls. Internally, the range walls are lined with 25mm thick timber boarding and this will be retained.

In February 2022 a noise impact assessment was carried out by Hann Tucker Associates and surveys undertaken during the peak firing activity at the Club. Noise levels recorded at the boundary during the evening peak activity in the club were in the range of 65-88dB. It was found that the noise levels at the neighbouring residential property were no higher than would be expected from road traffic on Station Road during the same period.

**Proposed Fabric.**

The corrugated sheets to both the roof and walls will be removed and any defective timbers replaced.

Both roof and walls will be clad with Tata Steel Trisomet steel composite insulated panels comprising steel inner and outer skins with factory bonded PIR insulation between. The roof panels will have a core thickness of 120mm providing a U-value of 0.16 W/m2k. The wall panels will have a core thickness of 80mm providing a U-value of 0.25 W/m2k. Both U-values to meet current Building Regulations.

A photograph of the roof panel sample is attached and the sample can be supplied if required.

**Acoustic Performance**.

As shown on the attached Trisomet data sheet an 80mm core panel will provide sound attenuation between 12.1dB and 31.2dB depending on frequency and a has weighted S.R.I of 28.5db.

The sound attenuation together with the air-tight construction provided by the installation method will provide as significant improvement over the existing construction.