A Highly Reliable, Impervious and Sustainable Triboelectric Nanogenerator as a Zero-power Consuming Active Pressure Sensor

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Figure S1- Triboelectric series chart showing the contact materials used in WR-SE-TENG fabrication
Figure S2- Circuit used for capacitor charging analysis using WR-SE-TENG

Figure S3- Homemade humidity test setup
Figure S4 - Charge quantity of the silicone elastomer film

Figure S5 - Stability test of the SE-TENG device
Supporting Information

**Video S1**- Demonstrating the working of WR-SE-TENG in water bath

**Video S2**- Bio-mechanical energy harvesting using hand tapping

**Video S3**- Bio-mechanical energy harvesting using foot tapping