

## Electronic Supplementary Information (ESI)

Exceptional electronic and mechanical properties in HfN<sub>2</sub> monolayer: promising candidate in low-power nano, flexible electronics, memory devices and photocatalysis

Manish Kumar Mohanta<sup>†</sup>, Fathima I.S.<sup>†</sup> and Abir De Sarkar<sup>\*</sup>

Institute of Nano Science and Technology, Phase 10, Sector 64, Mohali, Punjab-160062, India

<sup>\*</sup>E-mail: abir@inst.ac.in; abirdesarkar@gmail.com

<sup>†</sup> Both the authors contributed equally

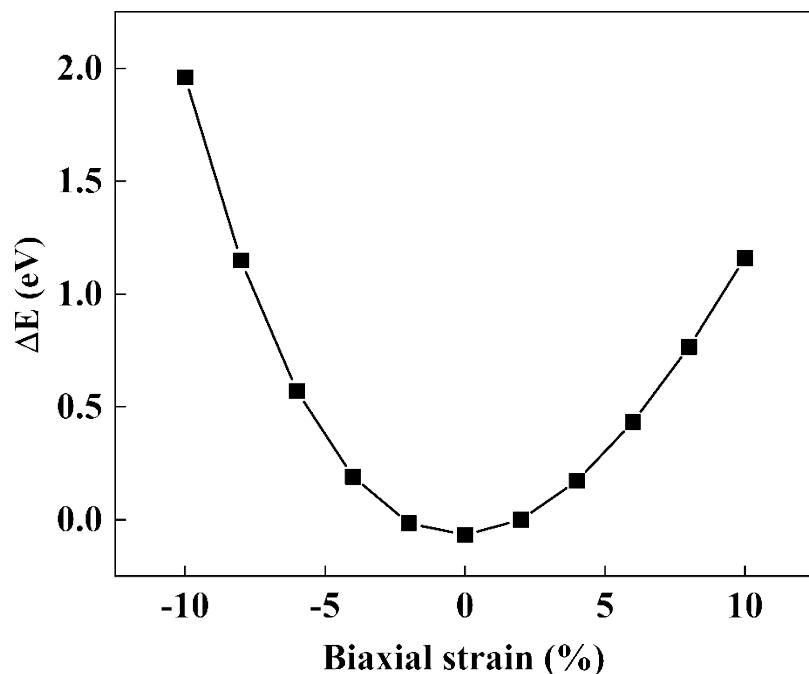


Figure S1. Strain-energy curve under biaxial strain applied within  $\pm 10\%$ .