## **Electronic Supporting Information (ESI)**

## **Chemically Modified Flexible Strips as an Electrochemical Biosensor**

**Raju Thota and V. Ganesh\*** 

Electrodics and Electrocatalysis (EEC) Division, CSIR – Central Electrochemical Research Institute (CSIR – CECRI), Karaikudi – 630006, Tamilnadu, India. Tel: +91-4565-241242; Fax: +91-4565-227779.

\*Corresponding Author E-mail: vganesh@cecri.res.in (or) ganelectro@gmail.com



Figure S1: Energy Dispersive X-ray (EDX) spectra recorded for a) APTMS/OHP, b) PANI/APTMS/OHP, c) Cu/APTMS/OHP and d) Cu/PANI/APTMS/OHP strips respectively. Cu modified OHP strips showing the presence of predominant Cu peaks.



**Figure S2:** (a) Chronoamperometric plot measured for Cu/APTMS/OHP strip in a stirred 0.1M NaOH aqueous solution towards the successive additions of glucose at a fixed potential of 0.8V vs. Ag/AgCl. The concentration of glucose was varied from 100 $\mu$ M to 6.0mM. (b) A plot of glucose oxidation current density (obtained from the steady state current of [a]) vs. the concentration of glucose.



**Figure S3:** Chronoamperometric curves obtained using Cu/PANI/APTMS/OHP electrode in a stirred 0.1M NaOH aqueous solution at a fixed potential of 0.6V vs. Ag/AgCl for two different human blood serum samples namely sample 1 (a) and sample 2 (b) showing the ability of proposed flexible OHP sensor for glucose detection.