15 November 2019 Ref: Attached B.Sc. Degree in Electrical Engineering

To whom it may concern

I have studied the verification test video made from CCTV footage dated 02/10/2019 as published by H2 Innovation Lab (H2IL) about 7 hours of self-sustainable 40Wh power generation demonstration. H2IL claims to have developed a self-sustainable power generation mechanism where input electricity is converted to hydrogen first and the generated hydrogen is then converted back to electricity with an efficiency of more than 100%. To prove this revolutionary idea, H2IL has made 7 hours functional video on how the mechanism is working and performing in a self-sustainable condition. Being an Electrical Engineer and with enthusiasm in scientific researches, I have inspected the video to see the authenticity of the technology and the working of the equipment.

The 7 hours video is compressed to 22 minutes using fast-motion, but CCTV timestamps are shown throughout the video along with continuous footage of the digital clock placed near the setup. After inspecting and analyzing the whole video, the very first thing that I can confirm is that CCTV timestamps are not interrupted throughout the video and the continuous digital clock footage is second prove that there is no trick involved while making the video. The whole video is continuous, just running in fast mode but without any video cuts. Besides that, regarding the authenticity of the technology, the video is giving an excellent demonstration of the whole process and clearing showing that no external mediums are deceiving the results. Here are the reasons I gathered from the video that are confirming the authenticity of the video and self-sustaining technology:

- The video starts with configuring the apparatus and the whole process is shown through four different CCTV footage to keep it completely transparent. After completing the connections, LED floodlights are connected as load and their glow indicates that hydrogen gas is successfully converted back to electricity. Initially, the external power supply is connected as input power to the G.E.E hydrogen generator, but later the output of fuel cell is given as the input power to the G.E.E hydrogen generator, proving the self-sustaining behavior of the mechanism.
- The video after specific intervals shows the apparatus from every angle to monitor the transparency of the process and visualize that there are no hidden connections, power sources or gas tanks tricking the whole mechanism. There is only one 12-volt external supply for powering cooling fans and the fuel cell control circuits.
- The pressure gauge shows a decline in pressure when the G.E.E hydrogen generator is disconnected from the fuel cell output mainly because the generation of hydrogen gas is reduced. This drop clearly indicates that the generator was powered only by the fuel cell output.

After the detailed inspection of the video, I can clearly state that I didn't see any hidden activity carried out during the whole demonstration. This technology is a revolutionary step in the energy world as it requires a small fraction of input power to act as the catalyst and perform the galvanic reaction with the preconditioned electrolytes and with negligible consumption of electrodes. As an independent assessment, I can confirm that H2IL hydrogen-based power generation technology is achieving more than 100% efficiency along with possessing qualities of self-sustainable, eco-friendly and reliable energy source.

Yours Sincerely

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This is to certify that

Mr. Hamza

Son of Mr. Abdul Razzaq

has completed all the requirements for the award of

B.Sc. degree in **Electrical Engineering**

on **31st August 2018** *securing a*

CGPA of 3.343 (Three Pt Three Four Three) /4.0

He has accordingly been admitted to the Degree of

Bachelor of Science

in

Electrical Engineering

Controller of Examinations

Countersigned

Chancellor

Lahore

Dated: 23 NOV 2018