

Mr. Michael Lodge  
Secretary-General  
International Seabed Authority  
**mlodge@isa.org.jm**

October 20, 2023

Dear Mr. Michael Lodge

**Re: Impossible Metals application for observer status with the ISA**

[Impossible Metals](#) is a US-based non-governmental organization developing polymetallic nodule collection technology which has the potential to significantly reduce the cost and environmental impact. Our application for observer status with the ISA is attached following the requirements in ISBA/25/A/16 Enclosure One:

1. Impossible Metals Inc.
2. 2265 E Foothill Blvd, Pasadena, CA 91107, USA
3. Impossible Metals Canada Inc., 93 Sandford Fleming Dr., Unit 1, Collingwood, ON L9Y 5A6, Canada
4. +1 (408) 660-3944
5. N/A We do not have a fax, Please use email instead
6. [info@impossiblemetals.com](mailto:info@impossiblemetals.com)
7. Oliver Gunasekara, CEO & Co-Founder, [oliver.gunasekara@impossiblemetals.com](mailto:oliver.gunasekara@impossiblemetals.com) + 1 408 660 3189
8. Impossible Metals is developing novel autonomous underwater vehicles for deep sea mining of polymetallic nodules. These vehicles do not use dredging or riser pump technology. This technology is currently in its second iteration, with projected economic-scale technology readiness in 2026. The company has expertise in underwater robotic technology.
9. No
10. Yes
11. None
12. <https://impossiblemetals.com>
  - a. Robotics technology information:  
<https://impossiblemetals.com/technology/robotic-collection-system/>
  - b. ESG and Annual report: <https://impossiblemetals.com/annual-reporting/>
  - c. May 2023 Demonstration of Eureka 1 (first AUV iteration):  
<https://impossiblemetals.com/technology/eureka-1-autonomous-underwater-vehicle-a-land-mark-in-sustainable-harvesting/>
13. We intend to provide our expertise on new technology and how that may impact the mining code. We intend to hold a side-event at the 29th Session Part I
14. In the future Impossible Metals may apply for an exploration license via a developing nation sponsor, or partner with an existing licence holder to carry out exploration/exploitation activities.

15. If granted observer status, Impossible Metals would contribute expertise regarding the discussion of options and possibilities for deep sea mining technologies, which may in turn have implications for the definition of acceptable levels of environmental impact.
16. Impossible Metals has an expert team of marine robotics engineers. Their expertise will be utilized to contribute to discussions about the role of robotics in deep sea mining, and how it can be used for innovative purposes, including mineral exploitation and environmental monitoring.
17. We plan to contribute to the capacity-building programmes and initiatives of the ISA by providing learning opportunities, such as webinars (and archive on YouTube) on underwater technologies.

Yours sincerely,



Oliver Gunasekara

CEO & Co Founder

**Impossible Metals Inc.**