BPH GLOBAL LTD
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Company Announcements Platform
Australian Securities Exchange

BPH Global to Advance Rare Earth Element (REE) Recovery Research, Secures Master Services Agreement with Marchwood Laboratory Services

Highlights

- **12-month Master Services Agreement with Marchwood Laboratory Services Pte Ltd (MLS) executed**
- **Focus on the measurement of rare earth elements (REEs), precious metals, and critical minerals in seaweed samples.**
- **Strategic emphasis on four REEs of high global importance — Lanthanum, Terbium, Yttrium, and Neodymium.**
- **This initiative builds on earlier collaborations and strengthens BPH Global's technical platform in the intersection of blue economy solutions and advanced materials recovery.**
- **A major step forward in its research into critical mineral recovery using seaweed as a natural bio-accumulator.**

The Board of BPH Global Ltd (**ASX: BP8**) (**BP8** or **Company**) a leading commercial seaweed research development and export Company, is pleased to announce a major step forward in its research into critical mineral recovery using seaweed as a natural bio-accumulator. Previous studies by BPH have proven that the seaweed species, *Sesuvium portulacastrum* is a hyperaccumulator of key metals and minerals which have potential for commercial extraction (ASX 30 July 2025).

The Company advises that its wholly owned, Singapore-based subsidiary Stemcell United Pte Ltd (**BP8 Singapore**) has entered into a Master Services Agreement with Singapore-based company Marchwood Laboratory Services Pte Ltd (**MLS**) for sea plant and seaweed tissue metal content measurement in three categories:

- **Rare earth elements (REEs)**, including Lanthanum (**La**), Terbium (**Tb**), Yttrium (**Y**) and Neodymium (**Nd**);
- **Precious minerals**; and
- **Critical minerals**.

This agreement reflects BP8's strategic emphasis on REEs while maintaining its focus on precious and critical minerals. To validate this proof of concept, BP8 will partner with MLS, a Singapore-based professional laboratory accredited by SAC-SINGLAS under ISO 17025. Equipped with state-of-the-art ICP-MS (Inductively coupled plasma mass spectrometry) technology and operating under USEPA standards, MLS will enable precise measurement of elemental concentrations in seaweed. This work represents an upgrade from previous collaborations with Temasek Polytechnic (Singapore), strengthening BPH Global's technical platform in the rapidly emerging intersection of blue economy solutions and advanced materials recovery.

Commenting on the agreement, BP8's Chairman Paul Stephenson said: "This Master Services Agreement marks an important step in our mission to explore innovative bio-based solutions for rare earth element recovery. Working with MLS under the supervision of the Company's R&D consultant Gaia Mariculture Pte Ltd, enables us to accurately quantify rare earth elements and other valuable metals in seaweed. The insights gained will build on our earlier R&D work and guide our efforts in developing scalable, environmentally responsible approaches for resource recovery in affected regions.

Strategic Importance of Rare Earth Elements (REEs)

Rare earth elements (REEs) are a group of 17 chemically similar metals that play a vital role in advanced technologies and clean energy systems. They are indispensable for the production of high-performance magnets, catalysts, alloys, and electronic components.
BP8's research program is focused on four specific REEs — **Lanthanum (La), Terbium (Tb), Yttrium (Y), and Neodymium (Nd)** (**Target REEs**) — each of which has critical industrial applications:

- **Lanthanum (La):** Used in rechargeable batteries, hybrid vehicle motors, optical glass, and petroleum refining catalysts.
- **Terbium (Tb):** Essential for high-efficiency green phosphors in lighting and displays, and as a stabilizer in fuel cells and solid-state devices.
- **Yttrium (Y):** Widely used in superconductors, lasers, LED lighting, and ceramics for aerospace applications.
- **Neodymium (Nd):** A key component in permanent magnets used in electric vehicle (EV) motors, wind turbines, hard disk drives, and smartphones.

Strategically, REEs are regarded as critical enablers of the global energy transition and advanced defense technologies. Global demand continues to grow rapidly due to surging EV adoption, renewable energy expansion, and digital infrastructure requirements. However, supply remains heavily concentrated, with more than 80% of global processing controlled by a small number of countries. This concentration exposes industries and governments to potential supply chain vulnerabilities and geopolitical risk. As a result, REEs have become a high-priority resource class, with governments worldwide implementing policies to secure alternative and sustainable sources.

Summary of Key Provisions of the Master Services Agreement

BPH Global's wholly owned subsidiary Stemcell United Pte Ltd has entered into a **12-month Master Services Agreement (MSA)** with Marchwood Laboratory Services (MLS). The key terms include:

- **Parties:**
  Client: Stemcell United Pte Ltd (BP8 subsidiary)
  Service Provider: Marchwood Laboratory Services Pte Ltd
- **Scope of Services:** MLS is to provide the following services to BP8 Singapore:
  - Sample analysis of seaweed and sea plants.
  - Custom sample preparation procedures (drying, grinding, sieving, digestion, filtration).
  - ICP-MS analysis for REEs, precious metals, and critical minerals.
  - Batch reports to be delivered within 5–7 business days, including raw data, results, and methodology.
  - Anticipated supply by BP8 Singapore: at least one 500-gram seaweed sample per month.
- **Contract Period:** Effective 3 September 2025, with a 12-month term (unless terminated earlier).
- **Fees:** Services will be charged on a per-sample basis under a fixed fee schedule for the duration of the Term. All fees are invoiced in Singapore Dollars (SGD) and payable within 30 days of invoice date. Fees per sample will comprise
  - **Sample preparation:** SGD50.00 per sample for processing seaweed biomass into liquid suitable for ICP-MS (Inductively Coupled Plasma Mass Spectrometry) analysis.
  - **Target REEs assay:** SGD150.00 per sample for analysis of the Target REEs.
  - **Precious and critical minerals assay:** SGD500.00 per sample for analysis of 28 identified precious and critical minerals.
  - **Individual element/minerals assay:** SGD40.00 per sample for analysis of a specific element or mineral on request.
- **Confidentiality & IP:** All data and deliverables remain the property of BP8 Singapore upon full payment. MLS retains ownership of its methodologies. Reports and results cannot be disclosed to third parties without consent.
- **Termination:** Either party may terminate with 30 days' notice; all delivered samples must still be processed.
- **Liability & Dispute Resolution:** Liability limited to fees paid; disputes referred first to mediation (Singapore law applies).

About Marchwood Laboratory Services (MLS)

Marchwood Laboratory Services (MLS) is a professional analytical laboratory based in Singapore. The company specializes in testing and analysis across a wide range of environmental and industrial matrices, including soil and sediment, water (raw, waste, drinking, recycled, saline, catchment, and product), and air (indoor, stack, ambient).

MLS is accredited by SAC-SINGLAS under ISO 17025, ensuring internationally recognised quality and competence in laboratory testing. The facility is equipped with state-of-the-art ICP-MS instrumentation, operated under USEPA standards, allowing for highly precise detection of trace

elements such as REEs, precious metals, and critical minerals. Through its proven expertise, MLS provides trusted analytical services to support environmental monitoring, regulatory compliance, and advanced research partnerships across Southeast Asia.

The Company will update the market on the results of these additional assays.

Marchwood's ICP-MS Machine for analysing samples

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Authorised for release by:
The Board of BPH Global Ltd

For further information, please visit our website at www.bp8global.com or contact the Company Secretary on 03 9088 2049.