NAME OF INNOVATION PROJECT	PUTRI (PUTRAJAYA TREE INVENTORY) : TREE INVENTORY MANAGEMENT *"Smart Data, Safe Trees, Sustainable City"* 
NAME OF INNOVATION TEAM	VERDANT DEPARTMENT OF LANDSCAPE AND PARKS PUTRAJAYA CORPORATION
TEAM PARTICIPANT	The VERDANT team participated in The 51st International Convention on Quality Control Circles (ICQCC) 2026 Dhaka, organised by the Bangladesh Society for Total Quality Management (BSTQM), on 19 November 2026 at Premiera Hotel Kuala Lumpur through online streaming demonstrates the team's commitment to innovation, continuous improvement and international knowledge sharing.
TEAM PROFILE	The VERDANT team was established in September 2023, following a decision made during the Department of Landscape and Parks, Putrajaya Corporation Management Meeting to address the challenges associated with the existing tree inventory management system (SIPP - Sistem Inventori dan Pengurusan Pokok) and also to promote innovation in landscape management at Putrajaya Corporation. The establishment of the team was driven by the need to replace the outdated SIPP system with a more efficient, integrated and user-friendly digital application. The initiative brings together members with relevant knowledge and expertise to develop innovative solutions for improving tree inventory, monitoring and assessment activities across Putrajaya. The team comprises 7 members from the Department of Landscape and Parks, Putrajaya Corporation, led by LAr. Haris bin Kassim, who also serves as the team facilitator.

PROJECT SUMMARY	PUTRI (Putrajaya Tree Inventory) is an integrated digital system adapted by Perbadanan Putrajaya for tree inventory, monitoring, and valuation to support accurate and real-time tree management. The PUTRI system aims to develop a new application to replace the existing SIPP (Sistem Inventori dan Pengurusan Pokok) system, which is outdated and obsolete. The new system will focus on the digital and integrated inventory, monitoring, and assessment of shade trees in Putrajaya. With the introduction of this application, all data can be accessed easily, accurately, and systematically, thereby improving work efficiency and supporting strategic landscape planning.
MAIN CAUSES OF PROBLEMS	The existing tree management system (SIPP) faces significant challenges due to outdated technology, fragmented and inconsistent data, inefficient physical monitoring, and the need to comply with Smart City standards and requirements. These issues highlight the need for an integrated, digital, and user-friendly system to enhance data accuracy, streamline monitoring processes, improve operational efficiency, and support Putrajaya’s vision of becoming a sustainable and smart city.
SELECTED PROPOSED SOLUTION	The development of a new application to replace the outdated SIPP system is essential to address the existing challenges in tree management and monitoring in Putrajaya. The proposed application will provide a centralised, digital and integrated platform for managing the inventory, monitoring and assessment of shade trees.
MONITORING OF THE PROPOSED SOLUTION	Monitoring will be conducted periodically through application functionality reviews, data accessibility testing, and assessments of tree information accuracy by field officers. User feedback will also be collected to identify areas for improvement and facilitate continuous system enhancement.
PROJECT IMPACT	The PUTRI application will transform traditional tree inventory management into a more efficient, integrated and data-driven approach. Through improved operational performance, secure data management and strategic decision-making, the project will contribute towards sustainable urban greenery management while reinforcing Putrajaya's position as a Smart and Sustainable City.
PROJECT BENCHMARK	The team has conducted the benchmarking of TREESSG – SINGAPORE as a reference to strengthen their project’s innovation and performance to gain insights into Singapore's digital tree inventory management model, particularly in the areas of tree data management, monitoring, assessment and the application of digital technology in urban greenery management. The knowledge and best practices gained will support the development of an integrated, user-friendly and data-driven tree inventory management system, in line with Putrajaya's Smart and Sustainable City aspirations.

INNOVATION ACHIEVEMENT & RECOGNITION	PUTRI has been registered on 04 June 2026, for Patent protection, demonstrating the innovation's originality and securing its intellectual property rights. This registration also supports the standardisation and potential wider implementation of the innovation.
AWARDS, ACCOLADES & RECOGNITION	The VERDANT team's achievement in winning the Gold Award at the 51st International Convention on Quality Control Circles (ICQCC) 2026 Dhaka, organised by the Bangladesh Society for Total Quality Management (BSTQM) and 2 stars recognition at Convention ICC Malaysia 2025 is a recognition of the team's excellence, creativity and commitment to continuous improvement and innovation.  Bangladesh Society for Total Quality Management (BSTQM) 51st ICQCC 2026 Dhaka, Bangladesh This is to certify that VERDANT from Perbadanan Putrajaya, Malaysia has successfully presented a case study at the 51st International Convention on Quality Control Circles (ICQCC-2026), held on 18–20 November 2026 at the University of Asia Pacific (UAP), Dhaka, Bangladesh. Their presentation was rated in the "GOLD" category. Theme of the Convention: "QCC for Sustainable Development" Organized by Bangladesh Society for Total Quality Management (BSTQM) In association with University of Asia Pacific (UAP) A K M Shamsul Huda Convener, 51st ICQCC-2026, Dhaka M M Kabir Co-Convener, 51st ICQCC-2026, Dhaka Scan to verify Certificate ID: ICQCC26-MY-OL-004


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Tree Inventory, Monitoring & Valuation
HAJI MOHD HUSSAINI BIN HAJI MORID
CEO / Prinsipal Konsultan

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