



## M.A.PALLEWATTHA

PhD (Australia), B.Sc.Eng.(Hons)  
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### Career Objective

To utilize my teaching skills and research interests towards a challenging career in growth oriented and leading edge that will provide mutual benefits and where from I can utilize my capabilities to the fullest benefits of the organization and society.

### Personal Information

- Name in Full : MUDITHA ANURADHI PALLEWATTHA
- Gender : Female
- Date of Birth : 06<sup>th</sup> November 1983
- Civil Status : Married
- Nationality : Sri Lankan

### Educational Qualifications

- **Ph.D. (Australia) in Geotechnical Engineering in 2017 – University of Wollongong, NSW, Australia**
- **B.Sc. Engineering (Honors) Degree from Department of Civil Engineering, University of Moratuwa, Sri Lanka in 2007**

### Professional Qualifications

- Member of Institution of Engineers Sri Lanka (Chartered Engineer)
- Member of Sri Lanka Geotechnical Society.
- Associate member of Society of Structural Engineers Sri Lanka.

## Professional Experience - Teaching

- Senior lecturer (Grade II) at University of Moratuwa, Department of Civil Engineering. 2020 November to present.
- Visiting lecturer at Irrigation Training Institute, Galgamuwa, Course: Quality assurance in construction for technical staff. 2010-2013 and 2017 -2020
- Visiting lecturer at Kotmale international training institute 2017-2020
- Visiting lecturer at Institute of Engineers Sri Lanka, College of Engineering. 2018-2019.
- Instructor at University of Wollongong (Australia) for civil engineering undergraduate students. 2013-2016.

## Professional Experience - Research

### *Publications,*

- M Pallewattha, B. Indraratna, 2021  
Increase in shear modulus of soil due to tree root permeation and soil matric suction, 2021 Proc. of the Intl. Conf. on Geotechnical Engg.(IGCE 2021), Colombo, Sri Lanka
- V. Kuruwitaarachchi, M.A. Pallewattha, T Kulathunga  
Variation of Concrete Properties with Respect to the Variation of Fineness Modulus of River Sand, ERU conference, 2021, University of Moratuwa, Sri Lanka.
- BB. Mayadunna, M.A. Pallewattha, S. Kokularamanan 2021  
Engineering Properties of Soils in Sri Lanka, 2021 Proc. of the Intl. Conf. on Geotechnical Engg.(IGCE 2021), Colombo, Sri Lanka
- M Pallewattha, B Indraratna, A Heitor, C Rujikiatkamjorn, 2019  
Shear strength of a vegetated soil incorporating both root reinforcement and suction, Transportation Geotechnics 18, 72-82.
- U Pathirage, B Indraratna, M Pallewattha, A Heitor, 2017  
A theoretical model for total suction effects by tree roots, Environmental Geotechnics 6 (6), 353-360.
- B Fatahi, U Pathirage, B Indraratna, M Pallewattha, H Khabbaz, 2016. The role of native vegetation in stabilizing formation soil for transport corridors: an Australian experience. Ground Improvement Case Histories, 591-628 (Book Chapter)
- M Pallewattha, B Indraratna, C Rujikiatkamjorn, Soil stabilisation using native vegetation. 2015 Proc. of the Intl. Conf. on Geotechnical Engg.(IGCE 2015), Colombo, Sri Lanka, 625-628.
- B Indraratna, M Pallewattha, B Fatahi, U Pathirage, Improvement of soil stability along rail corridors through native vegetation, 7th International Congress on Environmental Geotechnics, Melbourne: iceg 2014, 818

### *Research interests,*

- Shear strength improvement using vegetation, bio engineering aspects.
- Unsaturated soil characteristics.
- Construction of earthen embankments.
- Slope stability with bio engineering aspects

#### *Current Research Involvement*

- Evaluation of increasing effect of tree roots on shear strength of soil due to root water uptake of the tree- Senate Research Committee Grant
- Nature based solutions for slope protection in river banks Sri Lanka – MPhil Supervision
- Nature based solutions for slope protection in river banks Sri Lanka – MSc Supervision.

### Professional Experience – Professional Reviewer

- Research on Nature based landslide risk management in Sri Lanka carried out by National Building and Research Organization (NBRO) under the Asian Disaster Preparedness Center (adpc) and World Bank – Professional Reviewer
- Climate Resilience Implementation Project (CRIP) which was implemented with World Bank funding – Feasibility Report Reviewer.
- Paper reviewing committee for World water day workshop by Irrigation Department in 2018 and 2019 and paper reviewing committee for SLNCOLD (Sri Lankan entity of ICOLD) workshop 2019.

### Professional Experience - Engineering

#### Irrigation Engineer- Irrigation Department (From July 2010 to 2020 October)

- Worked in Engineering Materials and Quality control division in Irrigation Department and involved quality controlling works of all island ongoing irrigation projects and major projects such as Morana, Yan oya, Kalugal oya, Deduru oya, Rambukkan oya and conducted research activities for enhancement of quality of all island construction works.
- Carried out earthen dam designs for Kaluganaga reservoir, Hadapanagala Reservoir, Kudawilachchiya reservoir, Pahala kobowewa reservoir.
- Carried out detailed geotechnical investigation for Kudawilachchiya reservoir, Ellewewa reservoir, Kinniya Kanthale- Kaluganga reservoir
- Worked in Environmental studies branch and involved in EIA works of reservoir projects in Wilakandiya, Kumbukkan oya, etc.
- Chairmen/member in Technical Evaluation Committees for environmental approvals and other departmental procurement works.

#### Structural Engineer – Saro Weerasuriya Associates (From June 2007 to July 2010)

- Structural design of Cinnamon bay hotel at Beruwala for John Keels Hotels PL Sri Lanka.
- Structural design of a 4 storey factory for J.J. Mills in Bangladesh.
- Structural design works for Defense Services College. (Client :- Ministry of Defense Public Security Law & Order Sri Lanka)
  - 7 storey parking building, 5 storey facility building, 6 storey Class room and Swimming pool.
- Designed a 8 storey office complex at Kotahena and involved in a Foundation design for a Steel warehouse structure for Pioneer Elastics in Vishakapatnam, India
- Designed a structural Steel 3D truss for the Mahinda Rajapaksha International sports complex at Diyagama Sri Lanka.
- Assisting project management of Defense ministry project and consultancy works.

## Competent Soft wares

- PLAXIS 2D and 3D
- Geo Studio
- MATLAB,
- Grapher
- Auto Cad
- CSI soft wares : Sap 2000

## Core Competencies

- Punctuality
- Analytical thinker
- Being very good team member and a fast learner
- Confident in Managerial, Technical and Conceptual skills
- Delivering targets on time, meeting deadlines

Hereby I declare that all the above information furnished by me is true and accurate to the best of my knowledge.

*M. A. Pallewattha*

*October 28, 2021*