

## CURRICULUM VITAE

### 1. PERSONAL DATA

**Name** : K.M. Prematilaka.  
**Date and Place of Birth** : 06<sup>th</sup> July 1963; Kandy, Sri Lanka  
**Citizenship** : Citizen of Sri Lanka by decent  
**Marital Status** : Married  
**Postal Address**  
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### 2. UNIVERSITY EDUCATION

- a) University of Peradeniya, Sri Lanka (1988)  
**B.Sc. Special Degree in Geology**, Lower Division Second Class Honors.  
(Subsidiary Subject: Physics).
- b) University of Peradeniya. Sri Lanka (2004)  
**M.Sc (Engineering Geology and Hydrogeology)**  
Adviser: Dr. H.A. Dharmagunawardena  
Thesis: Enrichment of iron in the Gannoruwa Well Field; Causes and Pathways.
- c) Post Graduate Diploma in GIS and remote sensing(2007), PGIS,  
University of Peradeniya.

The above degree courses were carried out in the English medium.

### 3. TRAINING AND WORKSHOP ATTENDED

#### **International**

- (a)-International Training Programme on **Management of Groundwater Supply for Urban Areas**, Organized by Department of Geology, Chalmers University of Technology, Goteborg, Sweden, August 24-October3, 1997, Goteborg, Sweden.
- (b)-Regional Follow up Seminar on **Management of Groundwater and Surface water Supply for Urban Areas**, Organized by Department of Geo-Engineering, Chalmers

University of Technology, Goteborg, Sweden and Department of Groundwater Resources, Thailand, November 24- December 3, 2003, Chiang Mai, Thailand.

- © Regional work shop on **Map Asia 2006**, organized by GIS Development, held in National Conventional Center, Bangkok, Thailand September 27-October 5, 2006.
- (d) The international Workshop on **Rain Water Harvesting** held on 27-29 September, 2006, Kandy, Sri Lanka.
- (e) 32 nd WEDC Conference on Sustainable Development of Water Resource, Water Supply and Environmental Sanitation, held on 13-17 November, 2006, BMICH, Colombo , Sri Lanka.
- (f) JICA net Training Program on **Remote Sensing** from 16<sup>th</sup> January 2008 to 13<sup>th</sup> February 2008 at Colombo.
- (g) JICA net Training Program on **GIS** from 19<sup>th</sup> February 2008 to 19<sup>th</sup> March 2008 at Colombo.
- (h) IAEA/RCA(RAS/7/022) Regional Training Course on “Groundwater Dynamics using isotopes and other tools” 05-09 August 2013, Colombo, Sri Lanka.

#### **Local**

- a)-Workshop on **Electrical Resistivity Sounding**, Organized by Geological Society of Sri Lanka, January 1998, Colombo, Sri Lanka.
- b)-Workshop on **Global Positioning System Equipment**, Organized by Institute of Surveying and Mapping, Sri Lanka, March 1998, Diyatalawa, Sri Lanka.
- c)-Short Course in **Environmental Chemistry**, Organized by the Institute of Fundamental Studies, Sri Lanka, and University of Maryland, USA, May 1998, Kandy, Sri Lanka.
- d)-Workshop on the **Remote Sensing and GIS in Earth Science**, Organized by the Geological Society of Sri Lanka, June 2001, University of Peradeniya, Sri Lanka.
- e) Workshop on **Dynamic Modeling for Landslide and Flood using GIS and Remote sensing**, organized by PGIS, ITC, and United Nation University, May 2006, University of Peradeniya.

#### **4. MEMBERSHIP**

Member-Geological Society of Sri Lanka (1989).

President(2009)- Geological Society of Sri Lanka (1989).

Corporate Member-Institution of Mining and Metallurgy, London (1994).

Vice President– Institute of Geology, Sri Lanka (2013/2014).

## **5. PROFESSIONAL EXPERIENCE AND SELECTED ASSIGNMENTS.**

**Position** : Junior Hydrogeologist/Geologist

**Institution** : Rural Water Supply and Sanitation Project funded by Danish International Development Agency.

**Period** : May 1988 to December 1991.

**Responsibilities** : Planning and execution of geophysical (VLF-EM 16 and electrical resistivity method) and hydrogeological surveys, geological mapping, and drilling programme for constructing 500 hand pump fitted borehole for rural water supply schemes, detailed groundwater quality mapping project in boreholes and dug wells, defluradation studies , and development of groundwater data bank(manual and GIS). It also contained hydrogeological, geophysical, drilling, geochemical, and sociological data of 3000 wells, and preparation of groundwater training manuals.

**Position** : Hydrogeologist.

**Institution** : National Water Supply and Drainage Board, Moneragala.

**Period** : January 1992 to May 1997.

**Responsibilities** : As the project Officer of the Groundwater section which covered an area of four administrative districts namely Badulla, Moneragala, Ampara, and Batticaloa. I am responsible for upgrading hand pump wells, training of hand pump caretakers, and planning of hydrogeological, hydrological, and geophysical investigations for the groundwater exploitations for implementation of rural and semi urban water supply schemes. The VLF(EM 16), EM 31, EM 34, and electrical resistivity surveys and analysis of geophysical data were done under my supervisions. I am also involved in coordinating with the local authorities in the two provinces. In addition to the groundwater activities, I was responsible for the planning of surface water resource investigations special reference to the river basin (Kubukkan Oya and Gal Oya).

**Position** : Senior Water Resource Specialist/Senior Hydrogeologist.

**Institution** : Regional Support Center(C&S)  
National Water Supply and Drainage Board, Gatambe Peradeniya.

**Period** : May 1997 to December 2006.

**Responsibilities** : As the officer in-charge of the groundwater section in the Regional Support Center (C&S) which covered five administrative districts of Sri Lanka. I am responsible in planning and execution of Geophysical, Hydrological (stream gauging, water balance studies), and hydrogeological surveys, well designing, and drilling programme for rural and semi urban water supply schemes. Further to that I am also responsible for rehabilitation of existing

groundwater intakes, borehole protection, and supervision of groundwater monitoring programme, training of engineering assistants for the maintenance of groundwater based water supply schemes and planning and execution of aquifer assessments in productive boreholes. In addition, I am also responsible for preparation of groundwater and surface water resource maps using GIS (Arc View 3.2/8.1), and analysis of satellite for the delineation of water resources.

**Position** : Manager(Groundwater Studies)/Chief Geologist.

**Institution** : Groundwater Section  
National Water Supply and Drainage Board, Colombo.

**Period** : December 2007 to date.

**Responsibilities** : I was responsible for the coordination of all groundwater and surface water study activities in Sri Lanka. In addition, I was involved in upgrading of groundwater and information system, establishment of groundwater monitoring network, hydrogeological investigation and geophysical investigation(VLF,Resistivity, EM 31,EM 34), drilling supervision, groundwater protection measures, water balance studies, training of groundwater and surface water professionals , surface water and groundwater interaction studies (quality and quantity) ,groundwater recharge studies, preparation of groundwater resources maps, and preparation of groundwater information to the management. During this period(2006 and 2007)1, I posted as project manager for the installation of 287 units of groundwater based rural water supply using solar energy in five administrative district in Sri Lanka

**6. SELECTED ASSIGNMENTS- ENVIRONMENTAL IMPACT ASSESSMENTS AND GEOPHYSICAL ASSESSMENTS IN ADDITION TO THE HYDROGEOLOGICAL AND HYDROLOGICAL WORKS.**

- (a) Member (Hydrology and Water Resource) –Initial Environmental Examination(IEE) team for the Atabage Mini-Hydro power project, Gampola.
- (b) Member (Hydrology and Water Resource) –Environmental Impact assessment(EIA) team for the Kukurampola Magnetite deposit, Buttala.
- (c) Member (Hydrology and Water Resource) – Initial Environmental Examination(IEE) team for the Atabage stage 2 Mini-Hydro power project, Gampola.
- (d) Member (Hydrology and Water Resource) - Environmental impact assessment(EIA) team for the Augmentation of scale mining and Manufacture of single super Phosphate fertilizer using the local phosphate resource at Eppawala.
- (e) Member (Hydrology and Water Resource)-Biodiversity assessment in the Moragahakanda Agriculture Expansion Project.

- (f) Member(Hydrology and Water Resource)- Initial Environmental Examination(IEE) team for Exploration of mineral sands, Kirinda.
- (g) Member(Hydrology and Water Resource)- Initial Environmental Examination(IEE) team for Exploration of construction sand, Puttalam.
- (h) Member(Hydrology and Water Resource)- Initial Environmental Examination(IEE) team for quarry site for Kandy-Mahiyangana road project.
- (i) Member(Hydrology and Water Resources)- Initial Environmental Examination(IEE) team for the Army Mini-Hydro power project, Kukuleganga.
- (j) Member(Hydrology and Water Resources)- Initial Environmental Examination(IEE) team for three quarry sites for Air-Port Project(2010), Maththala, Hambantota..
- (k) Member(Hydrology and Water Resources)- Environmental Impact assessment(EIA) team for Yan Oya Irrigation project(Rs 27 billion project),2012 , Horoupotana, Anuradhapura.
- (l) Member(Hydrology and Water Resources)- Initial Environmental Examination(IEE) team for 30 metal quarries(2012 and 2013) for GSMB Technical Service(PVT)Ltd, Pitakotte.
- (m) Member(Hydrology and Water Resources)- Environmental Impact assessment(EIA) team for Maduru Oya right bank Irrigation project, Maduru Oya, Polonnaruwa/Batticaloa Districts(2013)- Works are in progressed.
- (n) VLF survey for Graphite Exploration within one square kilometer area in Bopitiya Village for MRS Graphite(PVT)Ltd, no 33, West tower, world trade center, Colombo 1, Sri Lanka(2014).
- (o) VLF survey for Graphite Exploration within two acres area in Udugama Village for Mrs. Bandaranayke, No 26, Lane 13, Galle Road, Kollupitiya, Sri Lanka(2014).

## **7. OTHER ASSIGNMENTS**

Geological consultant (on call Basis) for Gamidiriya/Gamanaguma Project from 2006 to 2013. During the past six years, hydrogeological, geophysical and hydrological investigations were conducted in 100 villagers in Moneragala, Badulla, Kurunagala, and Kagalle district in order to assess water resources for water supply schemes.

## **8. TEACHING EXPERIENCE.**

Conducting lectures for course unit “**Application of geophysics for the investigation of water resources**”, for B.Sc Degree Program, 2012 and 2013, Faculty of Science and Technology, Uva Wellassa University, Passara Road, Badulla.

**Declaration:**

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications and my experience.

Date and Place: 09/09/2014

Signature: