

**CV: Air Mshl Lalji K Verma, AVSM (Retd)**

**CMD, Vegma Enviro Consultants (India) Private Limited**

**DOB** – 17 Oct 1941.

**Qualification** – MBBS, M Sc (Env & Ecology) - Sikkim Manipal University) , **Ph D** (Intercultural Open University, The Netherlands, Emphasis- Hospital Waste Management)

**Passport Details** – No – G 2493192, Valid up to 31-5-2017

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**Web** [www.vikalp.org.in](http://www.vikalp.org.in) [www.medwasteind.org](http://www.medwasteind.org) [www.vegmaenviro.com](http://www.vegmaenviro.com)

**Blog:** [http://360.yahoo.com/lalji\\_lkv2007](http://360.yahoo.com/lalji_lkv2007)

### **Career profile & Experience**

- Service with Indian Air Force (Armed Forces Medical Services) at the field & staff level for about four decades.
- Secretary Medical Services Advisory Committee (MSAC) – May 1997 to May 2000. MSAC is under the office of the DGAFMS, Ministry of Defence which frames medical policies on hospital planning, manpower utilization, drug related policies, procurement policies, and training of undergraduate and post graduate medical, nursing, and paramedical staff for the Armed Forces, and periodic review thereof. Procurement of medical stores to the tune of 350 crores rupees.
- Member Medical Services Advisory Committee, Armed Forces

May 2000 to Aug 2002

- Retired from top medical position-Dir Gen Medical Services, Air Force (Rank – Air Mshl) in Aug 2002.
- Established Environmental Protection Cell in the Indian Air Force HQ leading to establishing Water Harvesting at many places.
- Wide experience in Health Care delivery System at the field, Planning, and Conceptual levels; Budgeting & Planning, and budget utilization.
- Wide experience in directing and steering research projects.

- Working in the field of Health Care Waste Management, Healthcare and environmental issues for past 10 years.

### **Conferences & Affiliations**

- Active participant in National & International conferences and seminars etc in India & Abroad, on environmental issues, waste management issues, aerospace medicine, and health care delivery system issues.
- Attended conferences/ workshops as a Resource Person of WHO-SEARO in India & SEA Region Countries.
- Was invited to deliver a Key Note address to the Working Group on Health Care Waste Management of ISWA in Rome, Italy in the third week of Oct 2004.
- Presented a paper during IET Conference at the Savoy Place, London- 22 May 2006.
- Was invited as a Plenary Guest speaker in the annual conference of College of Microbiology, Colombo, Sri Lanka September 13 - 14, 2007.
- Conducted a two day workshop on biomedical waste management at the NRHM, Assam, Guwahati - 4<sup>th</sup> - 5<sup>th</sup> April 2008, as invited resource person.
- Attended many Aerospace Medicine conferences abroad as Head of Indian Delegation.
- Member Steering Committee on hospital waste Management in the Ministry of Environment & Forest, Govt of India.
- Founder President-'Indian Society of Hospital Waste Management' (ISHWM, Reg No. 36939 of 2000) - Y2K. Elected President 2006-7, and 2007-8, and 2008 -9. Web site [www.medwasteind.org](http://www.medwasteind.org)
- Founder President-'VIKALP Seeking Waste Solutions through Alternatives', an NGO registered in January 2005 (Reg No. 51322/2005). Web Site [www.vikalp.org.in](http://www.vikalp.org.in)

- Life Member of Indian Society of Aerospace Medicine, and its Hon Fellow
- Member/Life Member of many Scientific Associations such as Academy of Hospital Administration, Consultancy Development Centre, etc
- Member International Solid Waste Association (ISWA)
- Member Aids Care Watch (ACW), as head of Vikalp, and nominated as one of the Country Focal Points (CFP)
- Member India International Centre (IIC), New Delhi
- CMD Vegma Enviro Consultants India Private Limited.
- **Reviewer** 'Waste Management' Journal (Elsevier, Amsterdam, the Netherlands).
- **On Editorial Board** of International Journal of Integrative Biology, Yarmouk University, Jordan.
- **Additional Reviewer**, the 6th International Conference on Education and Information Systems, Technologies and Applications: EISTA 2008, Orlando, Florida, USA.
- **Advisor** Science and Technology Group (STG Publishers), Alexandria, Egypt.
- **Reviewer** 'Waste Management and Research' Official journal of International Solid Waste Association (ISWA).

### Progenitor of Concepts:

- Healthcare Waste Management using 'multi-option' approach, with system development.
- Mobile Health Care Waste Management System.
- Food Waste Management System based on application of thermal energy under controlled conditions.
- Waste Management Authority of India.

## Publications

### Chapters, Reports and Books:

#### **Chapters:**

- ❖ Guidelines Hospital Waste Disposal for the Armed Forces-1999
- ❖ Guidelines Hospital Waste Disposal in any Hospital - 1999
- ❖ Prepared Policy Guidelines for Hospital Waste Management in the Armed Forces based on which Joint Services Guidelines were Published (JSG No - 0553: 1999)

#### **Reports:**

- ✚ Final Report WHO Pilot Project: laying down Hospital Waste Management System at the Air Force Hospital, Bangalore - 1999 - 2000.
- ✚ Developed Course design and schedule of Certificate Programme- Healthcare Waste Management for South East Asia Region Countries, as a Senior Consultant on collaborative project between WHO-SEARO & IGNOU- July 2003 to April 2004.
- ✚ Report to the Department of Health, Govt of NCT of Delhi, on biomedical waste incinerator near SUKHDEV VIHAR, a resident colony in New Delhi - January 2008.

#### **Books:**

"Managing Healthcare Waste- a Practical Approach" (ISBN 81- 87966- 61-0, Knowledge World (2007)).

#### **Papers & Articles:**

*(Only relevant ones)*

1. "Dioxins and Furans & Hospital Waste Incineration"- MJAFI. Jan 2000.
2. "Waste Management Authority of India (WMAI)" - PHARMABIZ HOSPITAL REVIEW. 16-30 Nov 2002 Issue.
3. "Hospital Waste Management: Many Gaps in Implementation" PHARMABIZ HOSPITAL REVIEW. 16-31 Jan Issue.
4. "Mobile Waste Management System: one solution to many peoples Problem" PHARMABIZ HOSPITAL REVIEW. 16-28 Feb 2003 Issue.

5. "Small Scale Incinerator is not the Answer" " PHARMABIZ HOSPITAL REVIEW, 1-15 Apr 2003 Issue.
6. "Infection Control" Journal of ISHWM Vol 2, Issue, Apr 2003.
7. Co-Author "Effects of Vermicomposting on microbial flora of Infected Biomedical waste" Journal of ISHWM, Vol 5, Number 1, 1 April, 2006.
8. Survey of hospital waste management practices in nursing homes and small healthcare facilities of Delhi. Ref: 'Waste Management' (Elsevier) 28(2008) pp 2723-2734.

### Projects

1. WHO aided pilot project to lay down Hospital Waste Management System-1999 to Y2K. Completed successfully and final report submitted. System visited by many Indian & Foreign experts, including Parliamentary Committee on Subordinate Legislation and appreciated. Based on this the hospital was declared "Environmentalist of the Year" by Govt of Karnataka in the year 2001.
2. DRDO Project to study mutagenic effects in hospital waste. Project completed in 2002.
3. WHO-IGNOU Collaborative Project to develop Certificate Training Programme for SEA region Countries. Worked as Sn Consultant on the programme during July 2003 to April 2004, and developed the course design.
4. DST project under USERS Scheme to write a monograph on hospital waste management - July 2004 (HR/UR/2003).
5. Consultant with Public Procurement Group (PPG- an NGO New Delhi), for **World Bank aided Project** 'Procurement Capacity Assessment of the Health Sector, Govt of Tamil Nadu' - May 2003. Project completed & Report submitted.
6. Consultant with PPG, **DFID aided Project** for Procurement Capacity Assessment of Medical Service Organization (MSO), Govt of India, for RCH II Programme - Jan-Feb 2006. Project Completed & Report Submitted.

7. Consultant with PPG on **World Bank aided Project** - NACP III- March 2006 to May 2007. Project completed and report submitted.
8. Appointed Chairman 'SUKHDEV VIHAR' Committee by Govt of NCT of Delhi - Dec 07 to January, 08 to look into complaints of the residents on health concerns allegedly caused by a nearby bio-medical incinerator. Report finalized and submitted.
9. Anti-tobacco campaign in a slum area of Delhi, as head of NGO Vikalp - 2007. Project has been awarded by the Govt of NCT of Delhi. First phase has been completed, and report submitted.
10. At the request of the Delhi Pollution Control Committee:
  - (a) Carried out inspection of ALP (Automated Logic Programme) of a common biomedical facility in Delhi. Report submitted.
  - (b) Carried out inspection of an area in outer Delhi for recommending suitability of an alternate site for an incinerator. Report submitted.
  - (c) External Audit of biomedical waste management - system and practice, in selected hospitals in Delhi. Project funded by Department of Health, Govt of NCT of Delhi. Project completed in March 2009, and report submitted.

#### **Current Engagement:**

- Working to finalize design and working of a machine invented for food waste management.
- President, ISHWM ([www.medwasteind.org](http://www.medwasteind.org))
- President, VIKALP ([www.vikalp.org.in](http://www.vikalp.org.in))
- CMD, Vegma Enviro Consultants India Pvt Ltd ([www.vegmaenviro.com](http://www.vegmaenviro.com))
- Blog: [http://360.yahoo.com/lalji\\_lkv2007](http://360.yahoo.com/lalji_lkv2007)

#### **Philosophy**

**"PROTECT ENVIRONMENT TO PROTECT YOURSELF"  
(PEPY)**

Updated - May 21, 2009