8th International Conference on Sustainable Waste Management, 8th IconSWM 2018

Venue & Date : Acharaya Nagarjuna University, Guntur, NH16, Vijayawada, Andhra Pradesh 522510, India: November 22<sup>nd</sup> - 24<sup>th</sup>, 2018





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Principal Collaborator: Swachh Andhra Corporation, Government of Andhra Pradesh, India Under the Aegis of: International Society of Waste Management, Air and Water (ISWMAW)

Paper Code: P13 (M 171)

#### Biomedical Waste Management in West Bengal: Current Practices, Issues and challenges

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Abstract: The present work has emphasised on few literature reviews, reports and case studies in West Bengal where around 12000 MT per year BMW are generated from several health care units (HCU) and with a rate of increase of 1% per year, the annual generation of BMW in the state has been estimated to be nearly 13500 MT in the year 2020. Total 5 large Common BMW Treatment Facilities (CBWTFs), 2 small CBWTFs and 14 Stand-Alone Treatment Facilities are carrying out incinerators and other treatment processes and disposal technologies in this state. The object of this present work is to summarize the BWM rules for management and handling of BMWs, category and characteristic of wastes. suggested storage and disposal containers including colour-coding and treatment prospects, environmental, socio-economical impacts and disposal of wastes, guidelines and recommendations.

#### Introduction.

Bio-medical waster (BMW) are generated from health care activities and have the potential to spread. discuses. The Government of India regulates BMW as per the provisions of the Bio-medical Waster Management Rules, 2016 and its amendments 2018 which includes storage, tenament and disposal of BMWs. According to the world health organisation (WHO) a secure and sustainable management. epotents of health-care wante in exceptful for public health in well as ecosystem.

#### Situadly Riegions

There are six BMW Treatment facilities (CBWTFs) in the state. All the six facilities have autoclaves, shredders and incinerators for treatment of the bio-medical wastes. The operators collect BMWs (segregated into incinerable and autoclavable) from their member HCEs and transport the wastes to their treatment and disposal facilities.



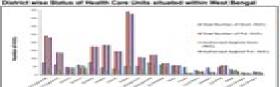
#### Salient Features of Biomedical Waste Management Rules 2016

- 4 bin system for segregation of Biomedical Waste.
- Disinfection or stanlisation of liaboratory waste, microbiological waste, blood samples and blood
- bags on site and then sent to the common blo medical waste treatment facility for final disposal. Use of chloringhed pheatic bags, gloves and blood bags within two years from the date of nitefication of their except of
- Proper training and immunisation of heath care workers and others, involved in handling of tro-
- editoral washe Establish a Bar- Code System for bags or containers containing bio medical waste.
- All incinerators shall meet the following operating and emission standards



#### Corrent Status and Implementation

District wise Status of Health Core Units altuated within Ment Bengal Segregation of BMW in Hospitals







#### Consuc Mittandy

Location: Sutahata, Hakkia , Purba Midnapore Name of the Company: West Bengal Waste Management Pvt. Ltd. By Ramky Group.

and Haldia Development Authority (HAD). Total Area: 100 acre Area: 70 acre SMN plant Operation Started From: May 2006 Capacity: 100:000 lain Nomines per what

- The facility has Temporary waste stores, Intractable waste stores, Secured landfill, Stabilization/treatment facility and an Incinerator with 100% power backup facilities.
- Integrated Waste Management facility catering to all waste type viz. Industrial waste: Bio-Medical waste & Municipal Solid waste.







#### Issues and Challenges

- Some of the places still don't have all 4 time. They follow the old 3 bin system.
- Monitoring of the health-care workers.
- High supply chain and disposal costs.
- Obnoxious smell during incineration.
- thegal routing of syringe, gloves etc.
- Yet to establish bar code in some of the places.
- More number of BMW disposal units are required.

#### Comclusion.

- BMW management in West Bengal was explored.
- EMW rules 2016 has been implemented to certain extent.
- WB has 6 approved unit for BMW disposal.
- Issues with black marketing of upcyclable part of BMW & high disposal cost.
- Supply Chain / Logistics cost is another important factor.
- Training and monitoring of the health care workers are required.
- Further intervention from govt, and stakeholders are required for development.

The author's would like to acknowledge International Society of Waste Management, Air and Water (ISWMAW) for funding the project, Centre for Quality Management Systems (CQMS) Jadavpur University, Kolkata for help and co-operation.

Action ow ledgement.

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