#### SOLID WASTE MANAGEMENT IN KOHIMA

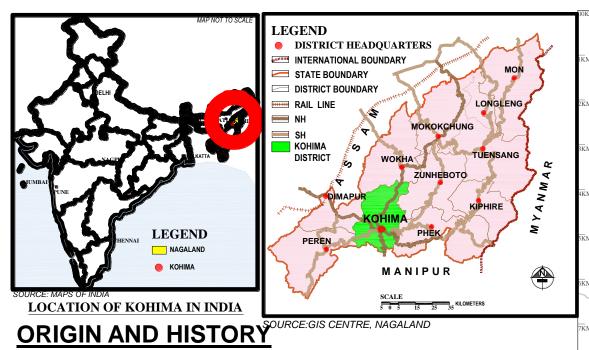


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## BACKGROUND

- Solid waste management is one of the most neglected urban services.
- It has lacked due attention in India and its urban areas.
- Solid waste Management (SWM) is one of the important obligatory functions of Urban Local Bodies in India.
- Implementation of Municipal Solid Waste (Management and Handling) rules 2000 by August 31 2003 by ULBs has become a distant dream.
- This service falls far short of desired levels resulting in problems of health, sanitation and environmental degradation.

## INTRODUCTION TO THE STUDY AREA



1878: KOHIMA ESTABLISHED AS CHIEF

ADMINISTRATIVE CENTRE

**1881:** THE DISTRICT OF KOHIMA

ESTABLISHED AS A SUB-DIVISION OF

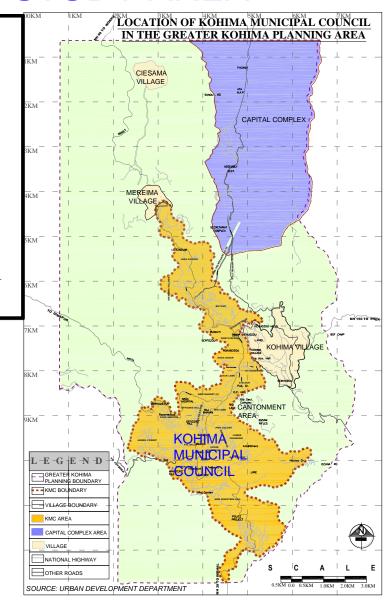
FORMERLY NAGA HILLS DISTRICT WITHIN

**ASSAM** 

**1957**: UNION TERRITORY BY AN ACT CALLED THE NAGA HILLS TUENSANG AREA ACT OF 1957

**1963**:NAGALAND BECAME A FULL-FLEDGED

STATE WITH KOHIMA AS ITS CAPITAL



## KOHIMA MUNICIPAL AREA CONTEXT

- o Kohima Municipal Council is a young body
- o Kohima city has been increasing in population due to its administrative importance, trade and commerce
- o The natural topography is a constraint
- o Kohima receives heavy rainfall most part of the year
- Health and environmental concern related with solid waste
- o Aspiration for better services and improved quality of life

#### INTRODUCTION OF KMC AREA

#### **LOCATION**

- o KOHIMA LIES BETWEEN 94' 5' 11" TO 94 '7'12" EAST LATITUDES AND 25 '28'20" TO 25'31'51"NORTH LATITUDES.
- o IT IS SITUATED ON THE DIMAPUR TO IMPHAL NH 39

#### **TOPOGARPHY**

- RUGGED AND HILLY TERRAIN
- o MEAN ELEVATION OF THE CITY IS 1468 M (RANGES FROM 150M -3000M)
- LIES IN SIESMIC ZONE V
- PRONE TO LANDSLIDES DUE TO HEAVY RAINFALL

#### **REGIONAL LINKAGES**

#### **ROADS**

 THREE NATIONAL HIGHWAYS 39, 61 AND 150. WELL CONNECTED WITH STATE CAPITALS OF NEIGHBOURING STATES

#### **RAIL**

 NEAREST RAILWAY HEAD IS AT DIMAPUR, THE LARGEST URBAN CENTER AND COMMERCIAL CAPITAL WHICH IS 74 KM AWAY

#### <u>AIRPORT</u>

 NEAREST AIRPORT IS AT DIMAPUR AND CONNECTED DIRECTLY WITH KOLKATTA AND GUWAHATI

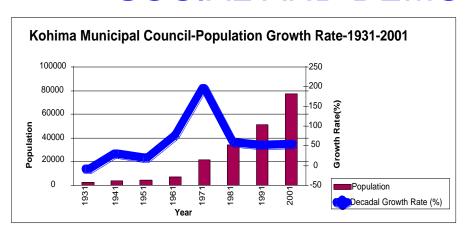
#### KOHIMA MUNICIPAL COUNCIL

o **AREA** 10.98 **SQKM** 

o **POPULATION** 146914 (2011)

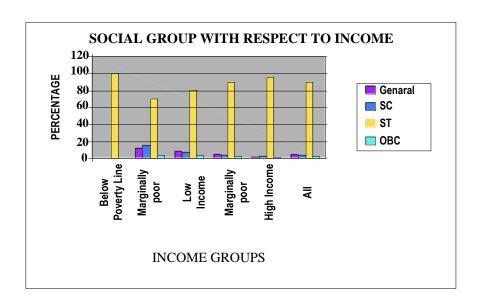
o NO OF WARDS 19

## SOCIAL AND DEMOGRAPHIC PROFILE



SOURCE: Census of India, 2001 & Urban Development Department, Govt. of Nagaland

#### POPULATION GROWTH



>THE DECADAL GROWTH RATE WAS THE HIGHEST DURING 1961-1971 AT 197%. IT WAS DUE TO THE DECLARATION OF KOHIMA AS THE CAPITAL AFTER ATTAINING STATEHOOD IN 1963. PRESENTLY THE ANNUAL **GROWTH RATE IS AROUND** 5% 89.6 % OF THE POPULATION CONSTITUTE SCHEDULED TRIBE(ST) POPULATION 100 % OF BPL ARE FROM THE

ST POPULATION

SOCIAL GROUP

# EXISTING SOLID WASTE MANAGEMENT MECHANISM

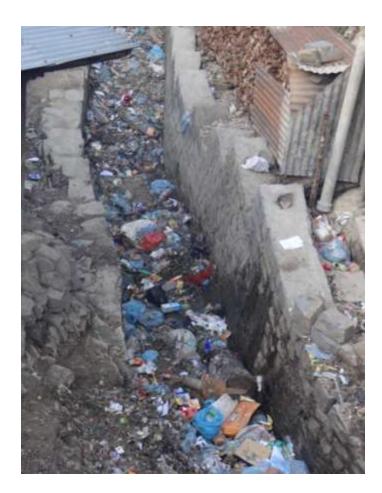
- Present Generation of waste is 60 tonnes/day @ 408 gram/ capita/day (Sorce: KMC)
- The Solid Waste Management in Kohima Municipal Council is decentralized with the involvement of all the Panchayats/ communities in all the colonies
- Door to door collection of waste
- An amount of Rs 1/- per day per HHs is collected by the Panchayats
- Disposal of Waste at a distance of about 15 KMs on NH 150





Garbage not collected on time





**Choked Drains** 



**Health Hazard to the Workers** 



**Health Hazard to the Workers** 

#### **DUMPING SITE:**

Old dumping site on NH 39 affected by landslide and has been abandoned

 New Sites have been procured a number of times by the KMC but problems have cropped up due to complaints by the adjacent land owners.

## **PROJECTS**

A modern Landfill site is under construction below Lerie with loan assistance by Asian Development Bank which will be completed within the next 12 months.

## THANK YOU