

NUDB&I DATABASE DESIGN STANDARDS

Urban areas may be more developed when compared to rural areas, but it should not be forgotten that there are wide disparities in development among the cities and towns. In order to get a clear picture with regard to urban scenario, it is needless to say that compilation of urban indicators has to be given overriding priority. Urban indicators will help to assess the quality of life in urban areas by revealing the position of various services and facilities available in urban areas. The data pertaining to urban indicators will help to improve targeting and operational performance of services, to make inter-town comparisons and will go a long way in making appropriate physical and economic plans. In short, urban indicators will immensely help in evolving proper urban policies and programmes.

The Steering Group on URIS set up in 1971 proposed the minimum critical data to initiate URIS into operation with the data organisation grouped under three broad categories viz. (1) physical, (2) socio-economic, and (3) basic infrastructure, services and amenities. Accordingly, a detailed effort to identify the parameters for planning and monitoring the functions identified under the 12th schedule of 74th CAA has been made and the data is to be collected in two sets of formats a) is applicable where data from census on decadal basis available and format b) is applicable for data collected from ULBs departmental sources.

Standards of National Urban Observatory (NUO)

A major commitment of the NUDB&I would be towards establishment of a network of Local Urban Observatories (LUOs) in the State to support development of indices to monitor the health of the urban settlements under National Urban Observatory (NUO).

The Urban Indicators Program (UIP) of the UNCHS identified 23 Indicators (clustered under six heads) as universal priorities from the commitments and strategies adopted in Istanbul, (Habitat-II, 1996) which are as follows:

(i) Shelter

1. Tenure Types
2. Evictions
3. Housing Price to Income Ratio
4. Land Price to Income Ratio
5. Mortgage to Non-Mortgage
6. Access to Water
7. Household Connections

**(ii) Social Development and
Eradication of Poverty**

8. Under Five Mortality
9. Crime Rates
10. Poor Households
11. Female – Male Gaps

(iii) Environmental Management

12. Urban Population Growth
13. Water Consumption
14. Price of Water
15. Air-Pollution
16. Waste Water Treated
17. Solid Waste Disposal
18. Travel Time
19. Transport Modes

(iv) Economic Development

20. Informal Employment
21. City Product
22. Unemployment

(v) Governance

23. Local Government Revenue and Expenditure

(vi) International Cooperation

All 137 towns selected under NUIS Scheme have been included for generating the NUDB&I database. The list of towns with coding is at Annexure-VI. Twenty five Global sample cities have been selected from India by the UNCHS under the Millennium Development Goal of the Urban Indicators Programme. Of the 25 cities 9 have been included in 137 NUIS town list. Rest 16 Global sample cities have also been considered for NUO database that makes a total of 153 towns (Annexure-VII).

National Urban Databank And Indicators (NUDB&I)

The focus of the NUDB&I is to collate and analyze data for various key areas such as socio-economic development, land use, transportation, housing, infrastructure, environment and governance. The number of urban indicators as per the NUO and developed based on guidelines of UNCHS are very large. The areas and sectors covered are also many in number. In order to integrate NUDB&I indicators with USIS spatial data, the number of elements, which are suitable for mapping, have been identified and indicated which are mostly suitable for NUIS Scheme towns. The periodicity of the data may not be the same for all variables and for all the towns. The year of the data can be indicated while inputting the data.

A major objective of the NUIS is to set up National Urban Databank And Indicators (NUDB&I) unit within each State Town Planning Department and Head Quarters will be NUIS Secretariat in TCPO/MOUD. The ULBs with the assistance of State Nodal Agencies would develop town level urban database for all 137 towns will be linked to the spatial database generated under USIS. The focus of the database would be primarily to address the urban planning and management functions of the Deptts. and support the Urban local body functions related to spatial decision making identified under the 12th schedule (Annexure - VIII) of the 74th CAA.

The data and content of the NUDB&I have been identified by the Standards committee (Annexure-IX), which would be collected from various sources of the respective Urban Local Bodies. This data would form the database of the NUDB&I at the NUDB&I cell in the State Nodal Agency

Coding Scheme for Primary Non-Spatial Data Element

The list of primary non-spatial data with its naming, conventions, sources of the data and the update frequency is given in Table 8.1, whereas the detailed coding scheme with its description part at different aspects for all the elements followed by its structure are given in the Annexure-X (Tables-01 to Tables-22). The Standardized Proforma for collection of the information for NUDB&I is at Annexure-XI. Guidelines along with definitions for filling up of the Proforma is at Annexure-XII

Table 8.1 Primary Non-Spatial Elements - Periodicity And Sources Of Data

Sl. No.	Subject	Table No & Name	Source	Periodicity of Updating
1	LOCATION	1. PHYSICAL <i>nn</i> .DBF	Master Plan and Meteorological Department	10 years
2	DEMOGRAPHY	2. DEMO <i>nn</i> .DBF 3. OCCU <i>nn</i> .DBF	Census	10 years
3	ECONOMY	4. INDUSTRIAL <i>nn</i> .DBF	District Planning Office/Industrial Centers	5 Yeras
4	LANDUSE	5. LANDUSE <i>nn</i> .DBF	Master Plan	10 years
5	AMENITIES & SERVICES	6. WATER <i>nn</i> .DBF 7. POWER <i>nn</i> .DBF 8. COMM <i>nn</i> .DBF 9. EDFAC <i>nn</i> .DBF 10. MEDFAC <i>nn</i> .DBF 11. SEWAGE <i>nn</i> .DBF 12. S_WASTE <i>nn</i> .DBF 13. COMUNITY <i>nn</i> .DBF 14. LAW <i>nn</i> .DBF	Municipal records Electricity Board Telephone Exchange District Education Office District Medical Office State Pollution Control Board Police Stations	Yearly
6	HOUSING	15. HOUSE <i>nn</i> .DBF	Housing Boards Town Planning Departments	5 Year
7	PUBLIC PRIVATE PARTNERSHIP	18. PPP <i>nn</i> .DBF	Municipal records/ Municipal Board	5 Year
8	LAND OWNERSHIP	16. LOWNER <i>nn</i> .DBF	Town Planning Departments	5 years
9	ENVIRONMEN T	17. CALAMITY <i>nn</i> .DBF 21. ENVI <i>nn</i> .DBF	State Pollution Control Board	Yearly
10	SLUMS	19. SLUM <i>nn</i> .DBF	Municipal Board	5 years
11	TRANSPORT	20. TRANSPORT <i>nn</i> .DBF	RTO	Yearly
12	GOVERNANCE	22. GOVT <i>nn</i> .DBF	Local Boady	5 years

Note: *nn* - Year of Census/Data Collection
DBF - File Extension Name

**National Urban Data Base Indicators (NUDB&I)
Structure For Non-Spatial Data Organisation
Primary Elements**

Table-1 Structure For Physical Aspects PHYSICAL *nn*.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System "link" code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
TNAME	Character	30	Name of the town
DNAME	Character	30	Name of the District
SNAME	Character	30	Name of the State
TS	Character	5	Town status/size
CS	Character	10	Civic Status of the Town
ARAIN	Numeric	5	Annual rainfall in millimeters
TEMP	Numeric	5	Temperature in centigrade
AREA91	Numeric	5	Area of the town in 1991(in Sq.Kms.)
AREA01	Numeric	5	Area of the town in 2001(in Sq.Kms.)
DSHQ	Numeric	5	Distance in kms from State Head Quarters
DDHQ	Numeric	5	Distance in kms from District Head Quarters
DTHQ	Numeric	5	Distance in kms from Tahsil/Taluk/Mandal Head Quarters
DNC	Character	5	Nearest city (having 1 lakh and above population)
DNRS	Numeric	5	Nearest Railway Station
DMR	Numeric	5	Nearness/Distance of Major River/Canal

Note: (*) nn indicates year of data.

Table -2: Structure for Demography Database: DEMO *nn*.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System "link" Code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
WAREA	Numeric	7	Ward area
NOH	Numeric	5	No. of households
ORH	Numeric	5	Occupied residential houses
HLP	Numeric	5	Houseless population
WHH	Numeric	5	Women headed households
MP	Numeric	6	Male population
FP	Numeric	6	Female population
TOTP	Numeric	8	Total Population
SCM	Numeric	6	Schedule caste male
SCF	Numeric	6	Schedule caste female
SCT	Numeric	6	Total Schedule Caste

Field Name	Type	Width (Dec.)	Description
STM	Numeric	6	Schedule tribe male
STF	Numeric	6	Schedule tribe female
STT	Numeric	6	Total Schedule Tribe
LM	Numeric	5	Literate male
LF	Numeric	5	Literate female
LT	Numeric	5	Total Literates
BRM	Numeric	5	Birth rate Male
BRF	Numeric	5	Birth rate Female
IMR	Numeric	5	Infant Mortality Rate
LEB	Numeric	5	Life Expectancy at birth
PBPL	Numeric	5	Population Below poverty line

Note: (*) nn indicates year of data.

TABLE –3 : Structure For Occupation Database: OCCU nn.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System “link” code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
MWTS	Numeric	5	Total no. of male main workers
FWTS	Numeric	5	Total no. of female main workers
TTS	Numeric	5	Total no. of main workers
MWPS	Numeric	5	No. of male workers in Primary sector
FWPS	Numeric	5	No. of female workers in Primary sector
TPS	Numeric	5	Total workers in Primary sector
MWSS	Numeric	5	No. of male workers in Secondary sector
FWSS	Numeric	5	No. of female workers in Secondary sector
TSS	Numeric	5	Total workers in Secondary sector
MWTS	Numeric	5	No. of male workers in Tertiary sector
FWTS	Numeric	5	No. of female workers in Tertiary sector
TTS	Numeric	5	Total workers in Tertiary sector
MWM	Numeric	5	Marginal workers male
MWF	Numeric	5	Marginal workers female
TMW	Numeric	5	Total marginal workers
NWM	Numeric	5	Non workers male
NWF	Numeric	5	Non workers female
TNW	Numeric	5	Total non workers
TWM	Numeric	5	Total workers male
TWF	Numeric	5	Total workers female
TW	Numeric	5	Total workers

Note: (*) nn indicates year of data.

Table-4 Structure for Industrial Aspects INDUSTRIAL nn.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System “link” code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
YEAR01	Numeric	5	Total No. of industries as on 2001
YEAR02	Numeric	5	Total No. of industries as on 2002
YEAR03	Numeric	5	Total No. of industries as on 2003
YEAR04	Numeric	5	Total No. of industries as on 2004

Field Name	Type	Width (Dec.)	Description
YEAR05	Numeric	5	Total No. of industries as on 2005
LI	Numeric	5	No. of Large industry
MI	Numeric	5	No. of Medium industry
SI	Numeric	5	No. of Small industry
HHI	Numeric	5	No. of Household industry
HI	Numeric	5	No. of Hazardous industry
MANF	Character	25	Most important commodities Manufactured
EXPORT	Character	25	Most important commodities exported
IMPORT	Character	25	Most important commodities Imported

Note: (*) nn indicates year of data.

Table-5 Structure for Land Use in Sq.Km. LANDUSE *nn*.DBF*

Field Name	Type	Width (Dec.)	Description (Area in Hecters)
SCODE	Character	5	System "link" code
TCODE	Numeric	5	Town Code
LU91	Numeric	5	Land use as on 1991
LU01	Numeric	5	Land use as on 2001
LU_P11	Numeric	5	Proposed land use 2011
LU_P21	Numeric	5	Proposed land use 2021
RES	Numeric	5	Residential Area
COM	Numeric	5	Commercial Area
IND	Numeric	5	Industrial Area
REC	Numeric	5	Recreational Area(parks, Play grounds, Open)
P&SP	Numeric	5	Area under Public and semipublic
TRANS	Numeric	5	Area under Transportation
PU	Numeric	5	Area under Public Utilities
VACANT	Numeric	5	Vacant land/ grass/grazing
RURAL	Numeric	5	Vegetated/Rural Area/Agricultural land
FOREST	Numeric	5	Forest area
WASTE	Numeric	5	Area under Wastelands
WET	Numeric	5	Area under Wetlands
WATER	Numeric	5	Area under Water bodies
OTHER	Numeric	5	Area under Other categories such as Mining,

Note: (*) nn indicates year of data.

Table-6 Structure Utilities-Drinking water WATER *nn*.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System "link" code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
SDW	Character	20	Important Source of drinking water(Well, Tank, Hand Pump, Piped water, River, Others)
WS	Numeric	5	Water supply in MLD
WC	Numeric	5	No. of Water Connections
LPCD	Numeric	5	Liter Per Capita Consumption per Day

Field Name	Type	Width (Dec.)	Description
			(LPCD)
AC	Numeric	5	Area Covered
CWTP	Numeric	5	Capacity of WTPs (MLD)
TW	Numeric	5	Treated water percentage
GWT	Numeric		Ground water Table in Meters
RS	Yes/No	1	Is there any recycling scheme of waste water in the town.
WTP	Yes/No	1	Is there any water treatment plant in the town

Note: (*) nn indicates year of data.

Table-7 Structure Utilities-Electricity POWER nn.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System "link" code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
DPP	Numeric	4	Distance in Kms from the Power plant
ES	Numeric	5	Electric supply in MW
TC	Numeric	5	Total consumption in MKWH
ECR	Numeric	5	No. of Electric Connections in residential
ECC	Numeric	5	No. of Electric Connections in commercial
ECI	Numeric	5	No. of Electric Connections in industrial
ECO	Numeric	5	No. of Electric Connections in others fields
RC	Numeric	5	Residential consumption in MKWH
CC	Numeric	5	Commercial consumption in MKWH
IC	Numeric	5	Industrial consumption in MKWH
OC	Numeric	5	Other Consumption in MKWH

Note: (*) nn indicates year of data.

Table-8 Structure Utilities-Tele communications COMM nn.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System "link" code
TCODE	Numeric	5	Town Code
TE	Numeric	2	No. of telephone exchanges
TC	Numeric	5	No. of Telephone connections
PT	Numeric	5	No. of public telephones
PO	Numeric	5	No. of Post offices
MC	Numeric	5	Number of mobile connections

Note: (*) nn indicates year of data.

TABLE- 9 : Structure For Educational Facility Database: EDFAC nn.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System "link" code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
AS_G	Numeric	4	No. of Government Anganwadi Schools
AS_P	Numeric	4	No. of Private Anganwadi Schools
PS_G	Numeric	5	No. of Government Primary Schools

Field Name	Type	Width (Dec.)	Description
PS-P	Numeric	5	No. of Private Primary Schools
MS_G	Numeric	5	No. of Government Middle School
MS_P	Numeric	5	No. of Private Middle School
SS_G	Numeric	5	No. of Government Secondary School
SS_P	Numeric	5	No. of Private Secondary School
SSS_G	Numeric	5	No. of Government Senior Secondary School
SSS_P	Numeric	5	No. of Private Senior Secondary School
CG_G	Numeric	5	No. of Government general colleges
CG_P	Numeric	5	No. of Private general colleges
CM_G	Numeric	5	No. of Government Medical colleges
CM_P	Numeric	5	No. of Private Medical colleges
CE_G	Numeric	5	No. of Government Engineering colleges
CE_P	Numeric	5	No. of Private Engineering colleges
CL_G	Numeric	5	No. of Government Law colleges
CL_P	Numeric	5	No. of Private Law colleges
CO_G	Numeric	5	No. of Other Government colleges
CO_P	Numeric	5	No. of Other Private colleges
VT_G	Numeric	5	No. of Govt. vocational training institutions
VT_P	Numeric	5	No. of Private vocational training institutions
AE_G	Numeric	5	No. of Government adult education Centres
AE_P	Numeric	5	No. of Private adult education Centres
ASENR_G	Numeric	5	No. of enrolment in Government Anganwadi Schools
ASENR_P	Numeric	5	No. of enrolment in Private Anganwadi Schools
PSENR_G	Numeric	5	No. of enrolment in Government Primary Schools
PSENR_P	Numeric	5	No. of enrolment in Private Primary Schools
MSENR_G	Numeric	5	No. of enrolment in Government Middle School
MSENR_P	Numeric	5	No. of enrolment in Private Middle School
SSENR_G	Numeric	5	No. of enrolment in Government Secondary School
SSENR_P	Numeric	5	No. of enrolment in Private Secondary School
SSSENR_G	Numeric	5	No. of enrolment in Government Senior Secondary School
SSSENR_P	Numeric	5	No. of enrolment in Private Senior Secondary School
CGENR_G	Numeric	5	No. of enrolment in Government General colleges
CGENR_P	Numeric	5	No. of enrolment in Private General colleges
CMENR_G	Numeric	5	No. of enrolment in Government Medical colleges
CMENR_P	Numeric	5	No. of enrolment in Private Medical colleges
CEENR_G	Numeric	5	No. of enrolment in Engineering colleges
CEENR_P	Numeric	5	No. of enrolment in Private Engineering colleges
CLENR_G	Numeric	5	No. of enrolment in Government Law colleges
CLENR_P	Numeric	5	No. of enrolment in Private Law colleges
VTENR_G	Numeric	5	No. of enrolment in Government vocational training institutions
VTENR_P	Numeric	5	No. of enrolment in Private vocational training institutions
AEENR_G	Numeric	5	No. of enrolment in Government adult education centers

Field Name	Type	Width (Dec.)	Description
AEENR_P	Numeric	5	No. of enrolment in Private adult education centers
AST_G	Numeric	5	No. of Teachers in Government Anganwadi Schools
AST_P	Numeric	5	No. of Teachers in Private Anganwadi Schools
PST_G	Numeric	5	No. of Teachers in Government Primary Schools
PST_P	Numeric	5	No. of Teachers in Private Primary Schools
MST_G	Numeric	5	No. of Teachers in Government Middle School
MST_P	Numeric	5	No. of Teachers in Private Middle School
SST_G	Numeric	5	No. of Teachers in Government Secondary School
SST_P	Numeric	5	No. of Teachers in Private Secondary School
SST_G	Numeric	5	No. of Teachers in Government Senior Secondary School
SST_P	Numeric	5	No. of Teachers in Private Senior Secondary School
CGT_G	Numeric	5	No. of Teachers in Government general colleges
CGT_P	Numeric	5	No. of Teachers in Private general colleges
CMT_G	Numeric	5	No. of Teachers in Government Medical colleges
CMT_P	Numeric	5	No. of Teachers in Private Medical colleges
CET_G	Numeric	5	No. of Teachers in Government Engineering colleges
CET_P	Numeric	5	No. of Teachers in Private Engineering colleges
CLT_G	Numeric	5	No. of Teachers in Government Law colleges
CLT_P	Numeric	5	No. of Teachers in Private Law colleges
VTT_G	Numeric	5	No. of Teachers in vocational training institutions
AET_G	Numeric	5	No. of Teachers in adult education institutions

Note: (*) nn indicates year of data.

TABLE 10 : Structure For Medical Facility Database: MEDFAC nn.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System "link" code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
HAL_G	Numeric	5	No. of Government Allopathic hospital
HAL_P	Numeric	5	No. of Private Allopathic hospital
HHO_G	Numeric	5	No. of Government Homeopathic hospital
HHO_P	Numeric	5	No. of Private Homeopathic hospital
HAY_G	Numeric	5	No. of Government Ayurvedic hospital
HAY_P	Numeric	5	No. of Private Ayurvedic hospital
HUN_G	Numeric	5	No. of Government Unani hospital
HUN_P	Numeric	5	No. of Private Unani hospital
HM_G	Numeric	5	No. of Government Maternity hospital
HM_P	Numeric	5	No. of Private Maternity hospital
HO	Numeric	5	No. of Other hospital
DAL_G	Numeric	5	No. of Government Allopathic dispensaries
DAL_P	Numeric	5	No. of Private Allopathic dispensaries
DHO_G	Numeric	5	No. of Government Homeopathic dispensaries
DHO_P	Numeric	5	No. of Private Homeopathic dispensaries
DAY_G	Numeric	5	No. of Government Ayurvedic dispensaries
DAY_P	Numeric	5	No. of Private Ayurvedic dispensaries
DUN_G	Numeric	5	No. of Government Unani dispensaries
DUN_P	Numeric	5	No. of Private Unani dispensaries
DM_G	Numeric	5	No. of Government Maternity dispensaries
DM_P	Numeric	5	No. of Private Maternity dispensaries
DO	Numeric	5	No. of Other dispensaries
PHC	Numeric	5	No. of Primary health center
NH	Numeric	5	No. of Nursing Home
HBED_G	Numeric	5	No. of beds in Government Hospital
HBED_P	Numeric	5	No. of beds in Private Hospital
DBED_G	Numeric	5	No. of beds in Government Dispensaries
DBED_P	Numeric	5	No. of beds in Private Dispensaries
PHCBED	Numeric	5	No. of beds in Primary Health centers
NHBED	Numeric	5	No. of beds in Nursing Homes
HDOC_G	Numeric	5	No. of Doctors in Government Hospital
HDOC_P	Numeric	5	No. of Doctors in Private Hospital
DDOC_G	Numeric	5	No. of Doctors in Government Dispensaries
DDOC_P	Numeric	5	No. of Doctors in Private Dispensaries
PHCDOC	Numeric	5	No. of Doctors in Primary Health centers
NHDOC_G	Numeric	5	No. of Doctors in Nursing Home
HNUR_G	Numeric	5	No. of Nurses in Government Hospital
HNUR_P	Numeric	5	No. of Nurses in Private Hospital
DNUR_G	Numeric	5	No. of Nurses in Government Dispensaries
DNUR_P	Numeric	5	No. of Nurses in Private Dispensaries
PHCNUR	Numeric	5	No. of Nurses in Primary Health centers
NHNUR	Numeric	5	No. of Nurses in Nursing Home
HPMS_G	Numeric	5	No. of Paramedical Staff in Government Hospital
HPMS_P	Numeric	5	No. of Paramedical Staff in Private Hospital
DPMS_G	Numeric	5	No. of Paramedical staff in Government Dispensaries
DPMS_P	Numeric	5	No. of Paramedical staff in Private Dispensaries
PHCPMS	Numeric	5	No. of paramedical staff in Primary Health

Field Name	Type	Width (Dec.)	Description
			centers
NHPMS	Numeric	5	No. of paramedical staff in Nursing Home
PT_G	Numeric	5	No. of Patients treated in Government Hospital
PT_P	Numeric	5	No. of Patients treated in Private Hospital
PTA_G	Numeric	5	No. of Patients treated in Ayurvedic Government Hospital
PTA_P	Numeric	5	No. of Patients treated in Private Ayurvedic Hospital
PTO_G	Numeric	5	No. of Patients treated in Other Government Hospital
PTO_P	Numeric	5	No. of Patients treated in Other Hospital
PTD_G	Numeric	5	No. of Patients treated in Government Dispensaries
PTD_P	Numeric	5	No. of Patients treated in Private Dispensaries
PTPHC	Numeric	5	No. of Patients treated in Primary Health centers
PTNH	Numeric	5	No. of Patients treated in Nursing Home
PDL	Numeric	5	Predominant disease Leprosy
PDP	Numeric	5	Predominant disease Phylaria
PDT	Numeric	5	Predominant disease Tuberculosis
PDC	Numeric	5	Predominant disease Cholera
PDO	Numeric	5	Predominant disease Others

Note: (*) nn indicates year of data.

TABLE 11 : Structure For Sewage Facility Database: SEWAGE nn.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System "link" code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
SSHH	Numeric	5	No. of HH connected with Sewerage system
QG	Numeric	5	Quantity of Sewage generated (MLD)
QT	Numeric	5	Quantity of Sewage treated (MLD)
STP	Numeric	2	No. of sewerage treatment plants
LOSD	Numeric	5	Length of Open surface drains in Kms.
AOSD	Numeric	5	Area served (sq.kms) by Open surface drains
LCSD	Numeric	5	Length of Covered drains in Kms.
ACSD	Numeric	5	Area served (sq.kms) by Covered surface drains
LUGS	Numeric	5	Length of underground sewerage in Kms.
AUGS	Numeric	5	Area served (sq.kms) by underground sewerage
LCO	Numeric	3	Length of Covered others in Kms.
ACO			Area served (in sq.kms) Others
PT	Numeric	3	Public toilets (in no.)
UPT	Numeric	5	Users per toilet daily (in No)
AEM	Numeric	5	Average expenditure maintenance (Rs. in Lakh)

Note: (*) nn indicates year of data.

TABLE 12 : Structure For Solid Waste Facility Database: S_WASTE nn.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System “link” code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
SWG	Numeric	5	Average Solid waste generation (Tons/day)
SWC	Numeric	5	Average Solid waste collection (Tons/day)
HHC	Numeric	5	No. of Houses cover for House to House Collection
DMSW	Character	20	Disposal method of solid waste
LF	Numeric	2	No. of Sites used for Land Fill
LFA	Numeric	5	Total Area Used for Land Fill (sq. Km)
MPD	Numeric	5	Manpower deployed
VD_L	Numeric	3	Vehicles deployed for Collection and Disposal (Trucks/Lories)
VD_T	Numeric	3	Vehicles deployed for Collection and Disposal (Tippers)
VD_D	Numeric	3	Vehicles deployed for Collection and Disposal (Dumpers/Placers)
VD_TR	Numeric	3	Vehicles deployed for Collection and Disposal (Tricycles)
VD_O	Numeric	3	Vehicles deployed for Collection and Disposal (Others)

Note: (*) nn indicates year of data.

TABLE 13 : Structure For Community Facility Database: COMUNITY nn.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System “link” code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
CG	Numeric	3	No. of Corporation Gardens
CH	Numeric	3	No. of Community Hall
SP	Numeric	3	No. of Swimming Pool
CP	Numeric	3	No. of Corporation Playgrounds
G	Numeric	3	No. of Gymnasia
CS	Numeric	3	No. of Corporation Stadium
CT	Numeric	3	No. of Cinema Theaters
OT	Numeric	3	No. of Open Air Theatres
Z	Numeric	3	No. of Zoo
PL	Numeric	3	No. of Public libraries
AG	Numeric	3	No. of Art Galleries
M	Numeric	3	No. of Museum
FS	Numeric	3	No. of Fire stations
FT	Numeric	3	No. of fire tenders
FP	Numeric	3	No. of fire Personnel
BG	Numeric	3	No. of Cremation/Burial Ground
PP	Numeric	3	No. of Petrol pumps/Gas Station
H	Numeric	3	No. of Hotels and Eating Places
B	Numeric	3	No. of Banks
ACS	Numeric	3	No. of Agricultural credit societies
NACS	Numeric	3	No. of Non- agricultural credit societies

Note: (*) nn indicates year of data.

TABLE 14 : Structure For Law and Order Database: LAW nn.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System "link" code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
T	Numeric	5	No. of Theft
R	Numeric	5	No. of Robbery
M	Numeric	5	No. of Murder
CAW	Numeric	5	No. of Crime against women
FA	Numeric	5	No. of Fatal Accidents
NFA	Numeric	5	No. of Non- fatal Accidents

Note: (*) nn indicates year of data.

TABLE 15 : Structure For Housing Database: HOUSE nn.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System "link" code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
OHH	Numeric	5	No. of Owned households
RHH	Numeric	5	No. of Rental households
SLHH	Numeric	5	No. of Sub-letting households
RFHH	Numeric	5	No. of rent free households
SWORHH	Numeric	5	No. of Squatter with out rent households
SWRHH	Numeric	5	No. of Squatter with rent households
NPOHH	Numeric	5	No. of Persons Living in Owned households
NPRHH	Numeric	5	No. of Persons living in Rental households
NPSLHH	Numeric	5	No. of Persons living in Sub-letting households
NPRFHH	Numeric	5	No. of Persons living in rent free households
NPSWOR	Numeric	5	No. of Persons living in Squatter with out rent households
NPSWRHH	Numeric	5	No. of Persons living in Squatter with rent households
PHRCC	Numeric	5	No. of Pucca with RCC Roof and flooring
PHT	Numeric	5	No. of Pucca with Tiles Roof and Kaccha floor
SPH	Numeric	5	No. of Semi pucca
KH	Numeric	5	No. of Kaccha
OH	Numeric	5	No. of Other houses
SHI	Character	25	Source of Housing Investment

Note: (*) nn indicates year of data.

TABLE 16 : Structure For Land Ownership: LANDOWNER nn.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System "link" code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
DU_P	Numeric	5	No. of Dwelling Units in Public sector
DU_DP	Numeric	5	No. of Dwelling Units in Developers & Promoters
DU_AI	Numeric	5	No. of Dwelling Units in Authorized Individuals
DU_UAI	Numeric	5	No. of Dwelling Units in Unauthorized Individuals
DU_O	Numeric	5	No. of Dwelling Units in Other
ADU_P	Numeric	5	Area covered in Public sector (Sq. km)
ADU_DP	Numeric	5	Area covered in Developers & Promoters (Sq. km)
ADU_AI	Numeric	5	Area covered in Authorized Individuals (Sq. km)
ADU_UAI	Numeric	5	Area covered in Unauthorized Individuals (Sq. km)
ADU_O	Numeric	5	Area covered in Other sector (Sq. km)
CDU_P	Numeric	5	Average cost of Dwelling units per sq. mt in Public sector
CDU_DP	Numeric	5	Average cost of Dwelling units per sq. mt in Developers & Promoters
CDU_AI	Numeric	5	Average cost of Dwelling units per sq. mt in Authorized Individuals
CDU_UAI	Numeric	5	Average cost Dwelling units in per mt in Unauthorized Individuals
CDU_O	Numeric	5	Average cost per sq. mt in Others
LPPA	Numeric	5	Land Price (Rs./Sq.mt.) of Planned area
LPUPA	Numeric	5	Land Price (Rs./Sq.mt.) of Unplanned area
ARDU	Numeric	5	Annual Rent of Dwelling Unit in Rs.
TMLCB	Numeric	5	Total Mortgage/ Loans in Commercial Banks (Rs. In lakhs)
TMFI	Numeric	5	Total Mortgage/ Loans in Financial Institutions (Rs. In lakhs)
TMPL	Numeric	5	Total Mortgage/ Loans as Personal loans (Rs. In lakhs)
TMLO	Numeric	5	Total Non Mortgage/ Loans other Institutions (Rs. In lakhs)
TNMLCB	Numeric	5	Total Non Mortgage/ Loans in Commercial Banks (Rs. In lakhs)
TNMFI	Numeric	5	Total Non Mortgage/ Loans in Financial Institutions (Rs. In lakhs)
TNMPL	Numeric	5	Total Mortgage/Loans as Personal loans (Rs. In lakhs)
TNMLO	Numeric	5	Total Non Mortgage/ Loans other Institutions (Rs. In lakhs)
TOLC	Numeric	5	Total Outstanding Loans in Commercial field (Rs. In lakhs)
TOLFI	Numeric	5	Total Outstanding Loans in Financial institutions (Rs. In lakhs)
TOLFI	Numeric	5	Total Outstanding Loans as Personal loans (Rs. In lakhs)
TOLFI	Numeric	5	Total Outstanding Loans in Other institutions (Rs. In lakhs)

Note: (*) nn indicates year of data.

TABLE 17 : Structure For Housing Calamities: CALAMITY nn.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System “link” code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
TC	Character	18	Type of calamity
YEAR	Numeric	5	Year of disaster
HD	Numeric	5	No. of Houses damaged
PA	Numeric	5	No. of persons affected
LOSS	Numeric	5	Loss of Property in Rupees

Note: (*) nn indicates year of data.

TABLE 18 : Structure For Public –Private -Partnership: PPP nn.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System “link” code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
HU_P	Numeric	5	No. of Housing units constructed in public partner ship (area in sq.kms)
HU_PR	Numeric	5	No. of Housing units constructed in private partner ship (area in sq.kms)
HU_PPP	Numeric	5	No. of Housing units constructed in PPP (area in sq.kms)
WS_P	Numeric	5	Water supply (MLD) in Public partner ship
WS_PR	Numeric	5	Water supply (MLD) in Private partner ship
WS_PPP	Numeric	5	Water supply (MLD) in PPP
SW_P	Numeric	5	Solid Waste (area covered in Sq.Kms under Public partner ship)
SW_PR	Numeric	5	Solid Waste (area covered in Sq.Kms under Private partner ship)
SW_PPP	Numeric	5	Solid Waste (area covered in Sq.Kms under PPP)
S_P	Numeric	5	Sewerage (Length in Kms) under Public partner ship
S_PR	Numeric	5	Sewerage (Length in Kms) under Private partner ship
S_PPP	Numeric	5	Sewerage (Length in Kms) under PPP
R_P	Numeric	5	Roads (Length in Kms) under Public partner ship
R_PR	Numeric	5	Roads (Length in Kms) under Private partner ship
R_PPP	Numeric	5	Roads (Length in Kms) under PPP
EG_P	Numeric	5	Public partner ship in Electricity Generation
EG_PR	Numeric	5	Private partner ship in Electricity Generation
EG_PPP	Numeric	5	PPP in Electricity Generation
ED_P	Numeric	5	Public partner ship in Electricity Distribution
ED_PR	Numeric	5	Private partner ship in Electricity Distribution
ED_PPP	Numeric	5	PPP in Electricity Distribution
EM_P	Numeric	5	Public partner ship in Electricity Maintenance
EM_PR	Numeric	5	Private partner ship in Electricity Maintenance
EM_PPP	Numeric	5	PPP in Electricity Maintenance
IS_P	Numeric	5	Improvement of Slum (Area in Sq.kms) under Public Partnership
IS_PR	Numeric	5	Improvement of Slum (Area in Sq.kms) under Private Partnership
IS_PPP	Numeric	5	Improvement of Slum (Area in Sq.kms) under PPP
SSR_P	Numeric	5	Slums and Squatters resettlement (Area in Sq.kms) under Public Partnership
SSR_PR	Numeric	5	Slums and Squatters resettlement (Area in Sq.kms) under Private Partnership
SSR_PPP	Numeric	5	Slums and Squatters resettlement

Field Name	Type	Width (Dec.)	Description
			(Area in Sq.kms) under PPP
CB_P	Numeric	5	City Beautification & Park maintenance (Area in Sq.kms) under Public partnership
CB_PR	Numeric	5	City Beautification & Park maintenance (Area in Sq.kms) under Private partnership
CB_PPP	Numeric	5	City Beautification & Park maintenance (Area in Sq.kms) under PPP
OA_P	Numeric	5	Other Activity under Public partnership
OA_PR	Numeric	5	Other Activity under Private partnership
OA_PPP	Numeric	5	Other Activity under PPP

Note: (*) nn indicates year of data.

TABLE 19 : Structure For Slum: SLUM nn.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System "link" code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
SUPAL	Numeric	5	No. of Slum HHs units in Public Authorized Land
SUPRAL	Numeric	5	No. of Slum HHs units in Private Authorized Land
SUPNL	Numeric	5	No. of Slum HHs units Public Notified land
SUPRNL	Numeric	5	No. of Slum HHs units Private Notified land
SUPUAL	Numeric	5	No. of Slum HHs units in Public Unauthorized Land
SUPRUAL	Numeric	5	No. of Slum HHs units in Private Unauthorized Land
SUPSL	Numeric	5	No. of Slum HHs units Public Squatters land
SUPRSL	Numeric	5	No. of Slum HHs units Private Squatters land
TSUPL	Numeric	5	No. of total HHs Slum units in Public Land
TSUPRL	Numeric	5	No. of total Slum HHs units in Private Land
SPPAL	Numeric	5	Slum Population in Public Authorized Land
SPPRAL	Numeric	5	Slum Population in Private Authorized Land
SPPNL	Numeric	5	Slum Population in Public Notified land
SPPRNL	Numeric	5	Slum Population in Private Notified land
SPPUAL	Numeric	5	Slum Population in Public Unauthorized Land
SPPRUAL	Numeric	5	Slum Population in Private Unauthorized Land
SPPSL	Numeric	5	Slum Population in Public Squatters land
SPPRSL	Numeric	5	Slum Population in Private Squatters land
TSPPL	Numeric	5	Total Slum Population in Public Land
TSPPRL	Numeric	5	Total Slum Population in Private Land
ACPAL	Numeric	5	Area covered in Sq.Km in Public Authorized Land
ACPRAL	Numeric	5	Area covered in Sq.Km in Private Authorized Land
ACPNL	Numeric	5	Area covered in Sq.Km in Public Notified land
ACPRNL	Numeric	5	Area covered in Sq.Km in Private Notified land
ACPUAL	Numeric	5	Area covered in Sq.Km in Public Unauthorized Land
ACPRUAL	Numeric	5	Area covered in Sq.Km in Private Unauthorized Land
ACPSL	Numeric	5	Area covered in Sq.Km in Public Squatters land
ACPRSL	Numeric	5	Area covered in Sq.Km in Private Squatters land
TACPL	Numeric	5	Total Area covered in Sq.Km in Public Land
TACPRL	Numeric	5	Total Area covered in Sq.Km in Private Land
WSCSA	Numeric	5	No. of Hhs covered Water supply in slum area
ECSA	Numeric	5	No. of Hhs covered Electricity in slum area
TCSA	Numeric	5	No. of Hhs covered Community toilets in slum area
OCSA	Numeric	5	No. of Hhs covered other Community facilities in slum area

Note: (*) nn indicates year of data.

TABLE 20 : Structure For Transportation: TRANSPORT nn.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System "link" code
TCODE	Numeric	5	Town Code
HVTP	Numeric	5	No. of Heavy Vehicles (Trucks) in Public sector
HVTPR	Numeric	5	No. of Heavy Vehicles (Trucks) in Private sector
HVBP	Numeric	5	No. of Heavy Vehicles (Bus) in Public sector
HVBPR	Numeric	5	No. of Heavy Vehicles (Bus) in Private sector
LVTW	Numeric	5	No. of Light Vehicles (Two wheeler)
LVC	Numeric	5	No. of Light Vehicles (Car)
LVJ	Numeric	5	No. of Light Vehicles (Jeep)
LVTHW	Numeric	5	No. of Light Vehicles (Three wheeler)
LVOB	Numeric	5	No. of Light Vehicles (Omini Buses)
LVTAXI	Numeric	5	No. of Light Vehicles Taxies/Cabs
NMC	Numeric	5	Non motorized (Cycle)
NMR	Numeric	5	Non motorized (Rickshaw)
NMT	Numeric	5	Non motorized (Tonga)
NMO	Numeric	5	Non motorized (Others)
WTPV	Numeric	5	Work Trips per day private vehicles
WTPTV	Numeric	5	Work Trips per day Public transport vehicles
WTTRAIN	Numeric	5	Work Trips per day Public transport vehicles (Train)
WTNMV	Numeric	5	Work Trips per day Non motorized vehicles
SRL	Numeric	5	Surface road length in Km
USRL	Numeric	5	Unsurface road length in Km
TRL	Numeric	5	Total road length in Km
FPL	Numeric	5	Footpath length in Km
CTL	Numeric	5	Cycle tracks length in Km
RS	Numeric	5	No of railway Stations
TRG	Character	20	Types of rail gauge; viz broad, narrow and meter gauge
LRRN	Numeric	5	Length of rail route network (in km)
PF	Numeric	5	No of platforms
RY	Numeric	5	No of Railway yards
PORT	Numeric	5	No. of major and minor ports
CL	Numeric	5	Length of the coastline (in Kms)
NRC	Numeric	5	No. of navigable rivers and canals
TSB	Numeric	5	Total no. of boats
S	Numeric	5	No. of Ships
OT	Numeric	5	Oil tankers
V	Numeric	5	Vessels
TTS	Numeric	5	Total tonnage of items carried by ships/tankers etc
AP	Numeric	2	No. of Airports
ATV	Numeric	5	Air Traffic volume and passenger data

Note: (*) nn indicates year of data.

TABLE 21 : Structure For Environment: ENVIRONMENT nn.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System "link" code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
SO2RA	Numeric	5	SO2 level of Residential area in ($\mu\text{g}/\text{m}^3$)
NORA	Numeric	5	NO level of Residential area in ($\mu\text{g}/\text{m}^3$)
SPMRA	Numeric	5	SPM level of Residential area in ($\mu\text{g}/\text{m}^3$)
CORA	Numeric	5	CO level of Residential area in ($\mu\text{g}/\text{m}^3$)

Field Name	Type	Width (Dec.)	Description
OPRA	Numeric	5	Other Pollutant level in Residential area in ($\mu\text{g}/\text{m}^3$)
SO2IA	Numeric	5	SO2 level of Industrial area in ($\mu\text{g}/\text{m}^3$)
NOIA	Numeric	5	NO level of Industrial I area in ($\mu\text{g}/\text{m}^3$)
SPMIA	Numeric	5	SPM level of Industrial area in ($\mu\text{g}/\text{m}^3$)
COIA	Numeric	5	CO level of Industrial area in ($\mu\text{g}/\text{m}^3$)
OPIA	Numeric	5	Other Pollutant level in Industrial area in ($\mu\text{g}/\text{m}^3$)
SO2CA	Numeric	5	SO2 level of Commercial area in ($\mu\text{g}/\text{m}^3$)
NOCA	Numeric	5	NO level of Commercial I area in ($\mu\text{g}/\text{m}^3$)
SPMCA	Numeric	5	SPM level of Commercial area in ($\mu\text{g}/\text{m}^3$)
COCA	Numeric	5	CO level of Commercial area in ($\mu\text{g}/\text{m}^3$)
OPCA	Numeric	5	Other Pollutant level in Commercial area in ($\mu\text{g}/\text{m}^3$)
NLR	Numeric	5	Level of Noise in Residential area in (Db)
NLI	Numeric	5	Level of Noise in Industrial area in (Db)
NLC	Numeric	5	Level of Noise in Commercial area in (Db)
BODLW	Numeric	5	BOD level of water (mg/l)
CLW	Numeric	5	Coliform level (mg/l)
PH	Numeric	5	PH value

Note: (*) nn indicates year of data.

TABLE 22 : Structure For Governance: GOVT nn.DBF*

Field Name	Type	Width (Dec.)	Description
SCODE	Character	5	System "link" code
TCODE	Numeric	5	Town Code
WCODE	Numeric	4	Ward Code
ELE_YEAR	Numeric	1	Year of the last election held
RR	Numeric	5	Revenue Receipt in lakhs
RE	Numeric	5	Revenue Expenditure in lakhs
RLE	Numeric	5	Revenue less expenditures in lakhs
RM	Numeric	5	Resource Mobilization in lakhs
DS	Numeric	5	Debt service charges in lakhs
THHI	Numeric	5	Total City/Town HH Income (Rs. in Lakh)
GNP	Numeric	5	GNP at National Level (Rs. in Lakh)
HHINL	Numeric	5	Total HH Income at National Level (Rs. in Lakh)

Note: (*) nn indicates year of data.

**National Urban Data Base Indicators (NUDB&I)
Proforma for Data Collection at
Town/Ward Level**

(Before filling up the Proforma please refer Guidelines/Definitions attached)

TABLE 1 : PHYSICAL ASPECTS AND LOCATIONAL PARTICULARS

1.1. Name of Town

--	--	--	--	--	--	--	--	--	--	--	--

1.2. Name of the District

--	--	--	--	--	--	--	--	--	--	--	--

1.3. Name of the State

--	--	--	--	--	--	--	--	--	--	--	--

1.4. Physical aspects of the town

Size/class of Town	Civic Status	Annual average rainfall in millimeters	Annual average Temperature in degree centigrade	
			Minimum	Maximum

1.5 Area of the Town in (Sq.kms.)

Ward	Area in (Sq.kms.)	
	1991	2001
1		
2		
.		
Town total		

1.6 Distance in Kms. from Town

Sl.No	Description	Name	Distance km.
i	State Head Quarters		
ii	District Head Quarters		
iii	Tahsil/Taluk/Mandal Head Quarters		
iv	Nearest city (having 1 lakh and above population)		
v	Nearest Railway Station		
vi	Nearest Air port		
vii	Nearest Port		

TABLE 4: INDUSTRIAL ASPECTS (For Ward/Town)

Sl. No	Type of Industries	No. of units				
		2001	2002	2003	2004	2005
1	Large					
2	Medium					
3	Small					
4	House Hold					
5	Hazardous					

4.1 Most important commodities imported

4.2 Most important commodities manufactured

4.3 Most important commodities exported

TABLE 5: LAND USE (in Hectares)

S7I.No	Type of Land	1991	2001	Proposed 2011	Proposed 2021
1	Residential				
2	Commercial				
3	Industrial				
4	Recreational				
5	Public and semipublic				
6	Transportation				
7	Public Utilities				
8	Reclaimed land				
9	Vacant land				
10	Agricultural land				
11	Built Up area (Rural)				
12	Forest				
14	Wastelands				
15	Wetlands				
16	Water bodies				
17	Others				

TABLE 6: AVAILABILITY OF DRINKING WATER

6.1 Indicate the important sources of drinking water (Put the tick mark)For Ward/Town)

Ward	Well	Tube well	Tanks/ponds	Hand pump	Tap Water	River/ canal	Others
1							
2							
.							

Note: Indicate the distance in Kms. from the main source

6.2 Water Supply details (For Ward/Town)

Ward	Source of Drinking water	Quantity of Water Supplied (MLD)	No. of Connections	Per Capita Consumption in liters (LPCD)	Area Covered (sq.kms)	Capacity of WTPs	Treatment of Total Water supply (%age)
1							
2							
.							
Total Town							

6.2.1 Is there any scheme for recycling of waste water in the town.

Yes	No
-----	----

6.2.2 Is the ground water table receding in the city?

Yes	No
-----	----

If yes, please give present water table

6.2.3 Is there any separate water supply line for non-drinking purposes such as industry, parks etc.

Yes	No
-----	----

If yes, give area covered under the scheme.

TABLE 7: ELECTRICITY (Town wise)

Source/distance (in Kms.) of Power plant	Total Electricity Demand (MW)	Total electricity Supply (MW)	Total Consumption (MKWH)

Type	Residential	Commercial	Industrial	Others	Total
No. of Electric Connections					
Electric Consumption (KWH)					

TABLE 8: TELECOMMUNICATIONS (Town wise)

No. of telephone Exchanges	
No. of telephone connections (land line)	
No. of Public Telephones	
No. of Mobile Connections	
No. of Post /telegraph office	

Epidemic Details (Town wise)

Name of Predominant Diseases	No. of persons Affected
Leprosy	
Phylaria	
Tuber colosis	
Cholora	
Others (Specify)	

TABLE 11: AVAILABILITY OF SANITARY FACILITIES

11.1 Sewerage (Ward wise)

Ward	No. of HH connect ed with system	No. of sewage treatment plants	Quantity generated (MLD)	Quantity treated (MLD)	Open surface drains		Covered drains		Underground sewerage		Others	
					Length in Kms	Area served (sq.kms)	Length in Kms	Area served (sq.kms)	Length in Kms	Area served (sq.kms)	Length in Kms	Area served (sq.kms)
1												
2												
.												
Total Town												

11.2 Public Toilets

Public toilets (in no.)	
Users per toilet daily (in No)	
Average yearly expenditure on maintenance of Public Toilets (Rs. in Lakh)	

TABLE 12: SOLID WASTE MANAGEMENT (Ward wise data)

12.1 Solid waste generation

Ward	Average generation (Tons/day)	Average collection (Tons/day)	No. of Houses covered for House to House Collection	Total Area Used for Sanitary Land Fill (sq. Km)	Manpower deployed	No. of Sites used for Land Fill
1						
2						
.						
Total Town						

12.2 Disposal method of solid waste (Town wise) (Put a tick mark on appropriate column)

Sanitary land fill	Incinerated	Open dump	Recycled	Burned openly	Others

12.3 Vehicles deployed for Collection and Disposal of Solid waste

Type of Vehicles deployed	Trucks/ Lorrie	Tippers	Dumpers / Placers	Tricycle	Others

12.4 Is there any system of segregation of solid waste?

Yes	No
-----	----

If yes, please furnish following details (%age of quantum)

Degradable	Biodegradable	Hospital waste

TABLE 13: AVAILABILITY OF RECREATIONAL, CULTURAL, BANKING AND CREDIT FACILITIES

13.1 Community Facilities (Town/Ward wise)

Sl.No	Facilities	Numbers
1	Corporation Gardens	
2	Community Hall	
3	Swimming Pool	
4	Corporation Playgrounds	
5	Gymnasia	
6	Corporation Stadium	
7	Cinemas	
8	Open Air Theatres	
9	Zoo	
10	Public libraries	
11	Art Galleries	
12	Museum	
13	Other (specify)	
14	Fire Services	
	No. of Fire stations	
	No. of fire tenders	
	Personnel	
15	Cremation/Burial Ground	
16	Petrol/Gas Station	
17	Hotels and Eating Places	
18	Others	

13.2 Number of banks and credit societies

No. of Banks	Agricultural credit societies	Non-agricultural credit societies

TABLE 14: LAW AND ORDER CRIMES (No.)

Type	No.
Theft	
Robbery	
Murder	
Crimes against women	
Fatal Accidents	
Non- fatal Accidents	

TABLE 15: HOUSING (Ward wise)**15.1 Distribution of House Holds (HHs.), No. of persons and Tenure**

Tenure Status	Number of		Distribution of Persons by living rooms				
	HHs	Persons	One room	Two rooms	Three rooms	Four rooms	Five & above
Owned							
Rental							
Sub-letting							
Rent free							
Squatter without Rent							
Squatter with Rent							
Others							
Total							

15.2 Categories of Houses

Type of Houses	No. of Houses
Pucca with RCC Roof and flooring	
Pucca with Tiles Roof and Kaccha floor	
Semi pucca	
Kaccha	
Others	
Total	

TABLE 16: LAND OWNERSHIP AND COST (Ward wise)**16.1 Land Ownership**

Type of ownership		No. of Dwelling Units(DU)	Area covered (Sq. km)	Average cost of DU per sq. mt (Rs.)
Public				
Private	Developers & Promoters			
	Authorized Individuals			
	Unauthorized Individuals			
Others (Specify)				
Total				

16.2 Land Prices (Ward wise)

Ward	Land Price in Planned Area (Rs./Sq.mt.)	Land Price in Unplanned Area (Rs./Sq.mt.)	Annual Rent of Dwelling Unit (Rs.)
1			
2			
Town Total			

16.3 Mortgage to credit ratio for housing (Rs. in Lakh)

Institutions	Total Mortgage/ Loans (Rs. In lakhs)	Total Non Mortgage/ Loans (Rs. In lakhs)	Total Outstanding Loans (Rs. In lakhs)
Commercial Banks			
Financial Institutions			
Personal Loans			
Others			

16.4 Housing Finance

Source of financial in flow in the Housing Sector				
Banks	Financial Institutions	Personal Loans	Cooperative Societies	Others

19.2 Availability of Basic Amenities in Slums

Type of Amenity	No. of HHs covered
Water Supply	
Electricity	
Community toilets	
Other (specify)	

19.3 Houseless Population

Is there any scheme functioning for promotion of housing for houseless population?

If yes, please give details as under

Yes	No
-----	----

Name of Scheme	Dwellings constructed during last five years	Size of the dwelling unit in Sq.mt.	Price of house	Mode of payment	No. of households benefited

TABLE 20: TRAFFIC & TRANSPORTATION- Time Series Yearly Data

20.1 Registered Vehicles

Type of Vehicles		No. of Vehicles
Heavy vehicles:	Trucks	
	Public	
	Private	
	Buses	
Light Vehicles:	Public	
	Private	
	Two wheeler	
	Car	
	Jeep	
Non motorized	Three wheeler	
	Omni Buses	
	Taxies / Cabs	
	Cycle	
	Rickshaw	
	Tonga	
	Others	

20.2 Work Trips Undertaken from Residence to Work Place

Type of vehicles	No. of Work Trips per day	Average Time taken for one way trip (in minutes / per day)
Private motorized <ul style="list-style-type: none"> • Private cars • Two wheelers • Buses / cabs / mini car 		
Sub-Total		
Public Transport <ul style="list-style-type: none"> • Trains • Trams/metro • Bus/mini bus 		
Sub-Total		
Non-motorised <ul style="list-style-type: none"> • Cycle / Rickshaw • Walking • Others 		
Sub-Total		
Total		

20.3 Road length and Footpath (in Kms.)

Surfaced road (Kms.)	Unsurfaced road (Kms.)	Total road length (Kms.)	Foot paths (Kms.)	Cycle Tracks (Kms.)

20.4 Railway

Items	No.
No of railway Stations	
Types of rail gauge; viz broad, narrow and meter gauge	
Length of rail network (in km)	
No of platforms	
No of yards	

20.5 Inland Water ways

Items	No.
No. of major and minor ports	
Length of the coastline (in Kms)	
No. of navigable rivers and canals	
Total no. of boats	
Ships	
Oil tankers	
Vessels	
Total tonnage of goods carried by ships/tankers etc	
No. of shipping yards	

20.6 Air

Items	No.
No. of Airports (Domestic & International)	
Traffic volume and passenger data	

TABLE 21: ENVIRONMENT

20.1 Air Pollution Concentration ($\mu\text{g}/\text{m}^3$)

Type of pollutant	Area			
	Residential	Industrial	Commercial	Others
SO ₂				
NO				
SPM				
CO				

20.2 Level of Noise Pollution (Db)

Residential	Commercial	Industrial	Silence zone

20.3 Water Pollution (Mg/l)

BOD level	Coliform level	PH value

TABLE 22: GOVERNANCE

22.1 Is the local body elected?

Yes	No
-----	----

If yes, state the year of last election.

22.2 Functions entrusted to local bodies as per 12th Schedule appended to 74th Constitutional Amendment Act, 1992.

22.3 Revenue and Receipt of Local Body (Rs in Lakh)

Revenue Receipt	
Revenue Expenditure	
Revenue less expenditure	
Resource Mobilization	
Debt service charges	

22.4 City Product (Time Series Yearly Data)

Total City/Town HH Income (Rs. in Lakh)	
GNP at National Level (Rs. in Lakh)	
Total HH Income at National Level (Rs. in Lakh)	

22.5 Proposed Large Projects

Proposed Capital Projects	Source of Finance	Investment	Project period
Upgradation			
New Infrastructure			
Expansion / Diversification			

**Guidelines For Filling the National Urban Data Base & Indicators (NUDB&I)
Town/Ward Proforma**

1. Introduction

The Proforma for collection of town level data for NUDB&I Component under NUIS Scheme consists of 22 Tables which cover key areas such as Demography, Physical & Locational aspects, Physical and Social Infrastructure, Environment, Housing and slums, Governance etc. In the first stage, the data has to be collected as per the NUDB&I Proforma (Annexure-XI) by the Urban Local Bodies and input the same as per the Non Spatial Data Organization Structure (Annexure-X) and Town Code (Annexure VI & VII). The Source of availability of the data is also furnished in Table 8.1, which may differ in the States.

1.1 Census Town

As per the Census definition, Towns comprise the following:

- (a) All statutory towns, i.e., all places with a municipality, corporation, cantonment board, or a notified town area committee, etc.
- (b) All other places which satisfy the following criteria:
 - a minimum population of 5,000 ;
 - at least 75% of the male working population engaged in non-agricultural activities; and
 - a density of population of at least 400 persons per sq.km.

5161 towns/cities have been identified in Census, 2001. These towns have been grouped into six classes based on the population size of the town. As per the 2001 census, there are 441 Class I towns, 496 Class II towns, 1388 Class III towns, 1563 Class IV towns, 1041 Class V towns and 232 Class VI towns.

1.3 Urban Agglomerations

A number of these Towns are part of 'Urban Agglomerations' which represent a continuous urban spread constituting a town and its adjoining urban outgrowths or two or more physically contiguous towns having a common boundary together with continuous well-recognised urban outgrowths, if any, of such towns. Very often, around a core city or statutory town, there are come up fairly large well recognized railway colonies, university campuses, etc. Even though these places lie outside the precincts of a statutory city or town or within the revenue limits of the village(s) which (are) contiguous to the town, such areas may not be themselves qualify to be treated as towns. But if they form a continuous spread with the town, they are outgrowths of the town and deserve to be treated as urban. Such towns, together with their outgrowths, have been treated as one urban unit called 'Urban Agglomeration'. Thus, an urban agglomeration may constitute:

- a. A city or a town with continuous outgrowth, the outgrowth being outside the statutory limits but falling within the boundaries of the adjoining village or villages; or
- b. Two or more adjoining towns with their outgrowths, if any, or
- c. A city and one or more adjoining towns with or without outgrowths all of which form a continuous spread

Definitions, explanations of the parameters (including abbreviations) used in different Tables of the Proforma are as follows:

Table 1 : Physical Aspects and Locational Particulars

1.1 Name of Town

Names of the town selected under NUIS Scheme.

1.2 Name of the District

Name of the district to which the town belongs

1.3 Name of the State

State name

1.4 Physical aspects of the town

Size/class of Town

As per the census, towns have been grouped into following six classes based on population size of the town :

Size-class	Population
I	1,00,000 and above
II	50,000 - 99,999
III	20,000 - 49,999
IV	10,000 - 19,999
V	5,000 - 9,999
VI	Less than 5,000

Civic status (in 2001)

The civic administration status is a determinant for categorisation of a place as urban which is to be indicated using the following abbreviations:

Civic Status	Abbreviation
1. Municipal Corporation/Corporation	M.Corp.
2. Municipal Committee/Municipal Town Committee	MC
3. Municipality	M
4. Municipal Board	MB
5. Municipal Council/Town Municipal Council/City Municipal Council	M CI
6. Cantonment Board/Cantonment	CB
7. Notified Area/Notified Area Committee/Notified Committee/Notified Town Area Committee	NAC
8. Industrial Notified Area	INA
9. Town Committee/Town Area Committee	TC
10. Town Area	TA
11. Municipal Township	MTS
12. Township	TS
13. Town Board	TB
14. Panchayat Township	PTS
15. Gram Panchayat/Village Panchayat	GP
16. Mandal Panchayat	MP
17. Nagar Panchayat/Town Panchayat	NP
18. Panchayat	P
19. Sanitary Board	SB
20. Special Area	SA
21. Special Area Development Authority	SADA
22. Estate Office	EO
23. Census Town/Non-Municipal Census Town	CT
24. Non-Municipal/Non-Municipal Area	NM

Annual rainfall in millimeters and Temperature in degree centigrade

This information is to be given on the periodic average of the preceding ten years from 2004 or 2005 as per availability.

1.5 Area of the Town in (Sq.kms.)

The area figures of statutorily notified towns are to be indicated by the civic bodies/municipal committees based on available records.

1.6 Distance in Kms. from Town

State HQs., District HQs., Tahsil/Taluk/Mandal HQs., nearest city (having 1 lakh and above population) and nearest Railway Station along with distances

These columns provide details on locational particulars of the town with reference to names of the State Hqs., District Hqs., Tahsil/Taluk/Mandal Hqs., nearest city (having 1 lakh and above population) and nearest Railway Station, indicating their distances in km., from the town. In case the nearest city or the railway station is situated in a state other than the state to

which the town belongs, name of the nearest city or nearest railway station alongwith the name of the state may be indicated. In some north-eastern states, namely, Arunachal Pradesh, Assam and Nagaland where `Circle` is equivalent to Tahsil, etc., names of Circle Hqs., have to be reported whereas in Manipur and Sikkim, Sub-Division is the equivalent to Tahsil, etc., names of Sub-Division Hqs., have to be indicated. Apart from these in Bihar, Meghalaya, Mizoram and Tripura, Community Block/Rural Development Block is the equivalent of Tahsil, In both cases Block of Police Station may be indicated as Tahsil.

1.7 Nearness/Distance of Major River/Canal

This column provides details of navigable river/canal passing nearby (within a distance of 10 km.), or through the town.

Table 2: Demographic Data

2.1 Demographic data

Number of households

In Census, a household is defined as a group of persons who commonly live together and take their meals from a common kitchen. This Table provides information on the number of households (including institutional and houseless households) in the town at the time of 2001 Census.

Women-headed households: a household headed by a woman, i.e. who has the primary authority and responsibility for the household's affairs, usually as chief economic support. However, in most countries, women are not usually enumerated as heads of households unless they are either living alone (that is, in one-person household) or there is no adult male in the household.

Number of occupied residential houses

This Table gives the number of occupied residential houses in respect of each town. A Census house is a building or a part of building having a separate main entrance from the road or common courtyard or staircase etc., used or recognized as a separate unit.

Population

Total population, Male and female population of the towns as per the Census 2001 is to be furnished.

Scheduled Castes- Population

All such castes, races or tribes or parts of or groups within castes, races or tribes deemed as Scheduled Castes under Article 341 of the Constitution of India have to be taken into account.

Scheduled Tribes- Population

All tribes or tribal communities or parts of or groups within tribes or tribal communities as are deemed as Scheduled Tribes under Article 342 of the Constitution of India to be taken into account and to be furnished.

Number of literates age 7 years and above

A person who can both read and write with understanding in any language is taken as literate. It is not necessary that a person who is literate should have received any formal education or should have passed any minimum educational standard. In 2001 Census, all children between 0-6 years are treated as illiterate even, if the child is going to a school and may have picked up reading and writing a few odd words.

2.2 Vital Statistics

- **Crude Birth Rate** : The Crude Birth Rate (CBR) is defined as the number of live births in a year per 1,000 of the midyear population.
- **Infant Mortality Rate** : Infant Mortality Rate (or IMR) is defined as the number of infant deaths in a year per 1,000 live births during the year.
- **Life expectancy at birth** = *Total child births - death of Children at the time of birth.*
- **Population BPL**: Households whose total income is below the poverty line as defined by the national/state/local standards. Poverty line taken as the income necessary to afford a minimum nutritionally adequate diet plus essential non-food requirements for a household of a given size.

Table 3: Occupational Classification

Workers and Non-workers

A 'worker' is a person who mainly participates in any economically productive activity either physically or mentally. Work not only involves actual work but effective supervision and direction of work as well.

Total workers

The total workers = Main workers + Marginal workers.

3.1 Main workers

Main workers were those who had worked for the major part of the year preceding the date of enumeration i.e., those who were engaged in any economically productive activity for 183 days or six months or more during the year.

Marginal workers

Those who worked any time in the year preceding the date of enumeration but did not work for a major part of the year i.e., those who worked for less than 183 days or six months were classified as Marginal workers.

Non-workers

Those who had not worked any time at all during the year preceding the date of enumeration are non-workers. Non-workers include (i) those engaged in household duties at home, (ii) students, (iii) dependents, (iv) retired persons (v) beggars, (vi) inmates of institutions and (vii) other non-workers.

Classification of Main Workers

The main workers both male and female are classified in primary, secondary, tertiary sectors which is to be furnished here.

Table 4: Industrial Aspects

Number of units of different type of industrial units (Large, Medium, Small House Hold, Hazardous etc) of the town/ward for the last five years to be furnished.

4.1 Most important commodities imported

The names of the most important commodities decided in terms of estimated volume of commodities imported are to be indicated.

4.2 Most important commodities manufactured

The names of the most important commodities manufactured are to be indicated. This is decided in terms of the volume of total output of the commodities concerned.

4.3 Most important commodities exported

The names of the most important commodities decided in terms of estimated volume of commodities exported are to be indicated.

Table 5: Land Use (In Hectares)

Area of land distribution

Land use in Hectares for the years of 1991,2001,2011 (proposed) and 2021 (proposed) to be furnished. The classification of land use is given as follows:

Residential

High rise
 Medium rise
 Low rise
 Group Housing
 Slums

Commercial

Retail and General
 Business
 C.B.D/Sub C.B.D.
 Community center
 Wholesale and
 Warehousing
 Local shopping
 Hotel/Restaurant

Industrial

Service Industry
 Light Industry
 Extensive Industry
 Heavy Industry
 Hazardous
 Industrial Godowns

Recreational

Parks/Gardens
 Stadium
 Playgrounds
 Golf Course/Race course
 Zoological parks
 Historical monuments

Wastelands

Salt affected land
 Gullies/ Ravine land
 Land with or without scrub
 Sandy area
 Mine dumps/Industrial
 waste
 Barren Rocky/Stony waste
 Mining
 Quarry
 Other mining areas
 Brick kilns

Public and semipublic

Educational Institutes
 Cantonments
 Hospitals
 Cremation/burial ground
 Social and Cultural center
 Religious places
 Government Office
 Post office
 Telephone exchange
 Petrol pump
 Police Station
 Fire station
 Cinema hall
 Television station
 Jail
 Bank

Transportation**Road**

Bus Terminals/stands

Rail

Terminals/Tracks/Yards

Airport

Runway and Airport
 Terminal Area

Public Utilities & facility

Water Treatment Plant
 Sanitary Landfill
 Electric Power plant
 Sewage Treatment Plant

Agricultural Land

Crop Land
 Fallow
 Plantation

Forest

Dense/Closed
 Open

Water bodies

River/Stream
 Canal/Drain
 Lakes/ponds
 Reservoir/Tanks
 Industrial Ponds/Pits

Wetlands

Inland natural
 Inland Manmade
 Coastal Natural
 Coastal Manmade

Table 6: Availability of Drinking Water**6.1 Important sources of drinking water**

Indicate the important sources of drinking water and also indicate the distance in Kms. from the main source

6.2 Water Supply details

Ward wise details of the quantity of water supplied (MLD), No. of Connections, Per Capita Consumption (LPCD), Area Covered (sq.kms), Capacity of WTPs, percentage of treated water etc. to be furnished.

Table 7: Electricity

The information on electric supply to the town is presented in the form of number of connections under different consumption groups viz., domestic, industrial, commercial, and others which includes electricity for agricultural purpose and so on.

Table 8: Telecommunications

Details of number of telephone connections (land line), mobile connections, Post Office etc. to be furnished here.

Table 9: Educational Facilities

Pre-primary schools have been treated as Anganwadi, Schools upto Class IV have been treated as Primary, schools upto Class VIII as Junior secondary or middle schools, schools upto Class X as Secondary schools and schools or colleges upto XII as Senior secondary schools or at places Intermediate and Junior college.

If there are composite schools like middle schools with primary classes, or secondary schools with middle classes, these have been included in the number of primary and middle schools respectively. For example, if in a town, there are two primary schools and one middle school with primary classes, the number of primary schools in the town will be given as three and that of middle schools as one even though there are only three educational institutions. Same is the case with secondary or senior secondary schools.

Number of vocational training institutions

This includes vocational institutions like Applied Art/Painting College, Pharmacy College, B.Ed. College, Teachers Training Institutions, Govt./recognized polytechnics, Shorthand, Typewriting, Music/Dance Schools, etc.

Number of colleges

The number of different types of colleges offering various courses in the town is to be indicated under following sub-heads :

- (1) General
- (2) Medical
- (3) Engineering
- (4) Law

A general college means Arts, Science and Commerce colleges.

Table 7 : Number of adult Education centers

This aspect was first introduced in the Town Directory of 1981 Census keeping in view the Minimum Needs Programme of the Planning Commission. In this column the number of adult education centres conducting regular classes are to be indicated.

Table 10: Medical Facilities

10.1 Number of hospitals, dispensaries, etc., doctors, nurses, paramedical staff and total number of beds available therein

The particulars of various type of medical institutions in various system of medicines like Allopathic, Ayurvedic, Unani, Homeopaththic etc. and their numbers viz., Hospitals, Dispensaries, Health Centres, Family Planning Centres, Nursing Homes and other medical institutions and the capacity with reference to total beds, doctors, nurses, paramedical staff available is to be given. The data presented is limited for those institutions as are run by or aided by Govt./Private institutions.

10.2 Epidemic Details

No. of persons affected by common diseases like Leprosy, Phylaria, Tuber colossi, Cholera etc.

Table 11: Availability of Sanitary Facilities

Sewerage System

Sewerage system implies the network of mains and branches of underground conduits for the conveyance of sewage to the point of disposal. Sewers that carry only household and industrial wastage are called separate sewers; those that carry storm water from roofs, streets and other surfaces are known as storm water drains, while those carrying both sewage and storm water are called combined sewers. However, towns, which are not provided with such underground sewerage system normally, have open surface drain, covered drains, etc.

Table 12: Solid Waste Management

There are three major steps involved in the management of Solid waste viz. collection, transportation and disposal. Disposal of solid waste is generally done through land filling.

Municipal solid waste includes commercial and residential waste generated by a community

Collection means collection and removal of solid waste from different collection points

Disposal means final disposal of solid waste;

Recycling means the process by which waste is transformed into new products in such a manner that the original products lose their identity;

Land fill: Means disposal of solid waste by spreading it in layers over a lined surface or land, compacting it to the smallest volume and covering it by impervious soil layer at the end of the day or more frequently. A landfill is operated to prevent leachate for contaminating ground water and maintaining ambient air quality;

Incineration: Incineration is a process of controlled combustion for burning of waste and residue, containing material, Carbon dioxide, water vapour, ash and non-combustible end products.

Biodegradable substance means a substance that can be degraded by micro-organisms.

Hospital Waste: Waste generating from the hospitals is called hospital waste

Table 13: Availability of Recreational, Cultural, Banking and Credit Facilities

13.1 Community Facilities

The particulars of recreational facilities such as stadia, museum, cinema halls and auditoria/drama/community halls and their number in the town are to be recorded. The availability of cultural facilities in the form of the number of public libraries and reading rooms, if any, available in the town is to be indicated. If fire fighting facility is not available in the town, the name of the nearest place where this facility is available is to be indicated and the distance of the same is given in column.

13.2 Number of banks and credit societies

Banks

Number of banks, commercial as well as co-operative functioning in the town has to be indicated. It gives the number of banks both the head as well as branch offices of banks in each town, which actually transact banking business. The head or branch offices not actually transacting any banking business are not to be taken into account.

Credit Societies

The information on Agricultural Credit Societies and Non-Agricultural Credit Societies are to be furnished.

The agricultural credit societies include service, multipurpose, agricultural produce, marketing cooperative societies, etc. The non-agricultural credit societies include consumer cooperative societies and also credit co-operative societies of certain categories of persons like teachers, postal-workers, etc.

Table 14: Law and Order / Crimes (No.)

Table 15: Housing (Ward Wise)

Table 16: Land Ownership and Cost (Ward Wise)

16.3 Mortgage to credit ratio for housing (Rs. in Lakh)

Mortgage / loans

Percentage of dwellings purchased during the past year that are covered by mortgage and percentage of dwellings that are covered by non-mortgage.

Table 17: Housing Calamities (No.)

Table 18: Public – Private –Partnership Projects Implemented in the Town (PPP)

Table 19: Slums

All the inhabitants of the areas, which have been notified as slums by the state governments under any legal provisions or even recognized by them, are to be accordingly considered as slum population. Besides areas in cities/towns, which satisfy the usual criteria for declaring an area as slum have also been included.

As per Census of India, 2001, the slum areas broadly consist of :-

1. All specified areas notified as 'Slum' by State/Local Government and UT Administration under any Act;
2. All areas recognized as 'Slum' by State/Local Government and UT Administration which may not have been formally notified as slum under any Act;
3. A compact area of at least 300 population or about 60-70 households of poorly built congested tenements, in unhygienic environment usually with inadequate infrastructure and lacking in proper sanitary and drinking water facilities.

Table 20: Traffic & Transportation

20.3 Road length and Footpath (in Km.)

The road length to be shown in these columns pertains to Surfaced i.e., Pucca and Un-surfaced i.e., Kutchra roads and its total road length.

Table 21: Environment

Pollutant means any solid, liquid or gaseous substance present in such concentration as may be or tend to be, injurious to the environment and environmental pollution means the presence of pollutant in the environment.

20.1 Air pollution

Air pollution is the excessive concentration of foreign matter in the air, which adversely affects the well being of the individual or cause damage to property. The important air contaminants are SO₂, NO, Suspended Particulate Matter (SPM), CO. Air pollutants are measures in µg/m³.

Sulfur dioxide (SO₂) : SO₂ is an irritant colourless gas, which affects the mucous membranes when inhaled. Exposure at low level can cause increased upper respiratory symptoms such as cough, sore throat and affects lung function.

Oxides of Nitrogen (NO): Of the seven oxides of nitrogen known to exist in the ambient air, Nitrogen dioxide is the main oxides affecting human health. Oxides of nitrogen are released in all the types of combustion as they are formed by the oxidation of atmospheric nitrogen at high temperature. Exposure to excessive NO₂ affects the defense mechanism of human body.

Suspended Particulate Matters (SPM): Particulate is a term given to the minute particle of solid or semi solid material dispersed in the atmosphere. SPM presence in the air cause respiratory diseases.

Carbon Monoxide (CO): Carbon monoxide is a colourless, odourless gas with relatively poor solubility in water. CO emission are due to incomplete combustion of fuel of vehicles. CO affects the central nervous system and also responsible for heart attacks and a high mortality rate.

20.2 Noise Pollution: Noise is an unwanted sound without agreeable musical quality. Noise levels are measured in decibels. One decibel is the threshold of hearing.

20.3 Water pollution: Water pollution is any physical or chemical change in water that can adversely affect organisms

Biochemical oxygen demand, or BOD

The amount of organic material that can decompose in the sewage is measured by the biochemical oxygen demand. BOD is the amount of oxygen required by micro-organisms to decompose the organic substances in sewage. Therefore, the more organic material there is in the sewage, the higher the BOD. Dissolved oxygen is an important factor that determines the quality of water in lakes and rivers. The higher the concentration of dissolved oxygen, the better the water quality. BOD level measured in mg/l.

Coliform level: Coliform level is an important index to measure pollution by human waste. Water pollution due to human excreta is caused mainly by the lack of proper municipal sewerage.

pH Value: A number used to express degrees of acidity or alkalinity in solution.

Table 22: Governance

22.3 Revenue and Receipt of Local Body (Rs in Lakh)

The actual revenue receipt and revenue expenditure figures of the administrative body governing the town are to be filled. Data is to be presented not only in respect of statutory bodies but also in respect of non-statutory bodies managing the civic administration of the towns if they have separate budgets and accounts of their own pertaining to the town.

22.4 City Product

Total product of the city as defined in national accounts procedures. It may either be taken as the total income or value-added (wages plus business surplus plus taxes plus imports), or the total final demand (consumption plus investment plus exports).

City Product = $(\text{GNP}) \times (\text{number of households in the city}) \times (\text{average household income in the city})$ (Total national household income, from national accounts)