

@ Government of India, 2023

### **Acknowledgement**

The Division gratefully acknowledges the contribution of all the source agencies, without whom this multifarious collection of statistics could not have been possible.

### **Access**

Soft Copies of this report and the tables contained therein are available for download, free of charge, from: <https://mospi.gov.in/web/mospi/reports-publications>

### **Citation and reproduction**

Reproduction is permitted provided an acknowledgment of the source is made. Materials contained in this publication attributed to third parties are subject to third-party copyright and are also subject to separate terms of use and restrictions, including restrictions in relation to any commercial use.

### **Disclaimer**

The contents of this publication are intended to enhance public access to information about environment and climate change

The material has been prepared on the basis of information, presentations and websites of the concerned Ministries/Departments, other agencies of the Government and international organisations. Every effort has been made in preparing this publication to ensure the correctness of information. The National Statistical Office (NSO) accepts no responsibility for the differences between the stated figures and those published elsewhere. Due to the dynamic changes in the datasets, users are requested to check for updates with the source agencies.

Neither NSO nor other third-party data sources provide any warranty including as to the accuracy, completeness or fitness for a particular purpose and accept no responsibility or liability with regard to the use of this publication and the material featured therein.

*Feedback and suggestions* for the publication are welcomed by the EnviStats team at [ssd-mospi@gov.in](mailto:ssd-mospi@gov.in)

## TEAM OF OFFICERS ASSOCIATED WITH THE PUBLICATION

Ms. Geeta Singh Rathore  
Additional Director General

Mr. Rakesh Kumar Maurya  
Deputy Director General

Dr. Sudeepta Ghosh  
Director

Ms. Neha Singh  
Deputy Director

Dr. Ruchi Mishra  
Deputy Director

Ms. Kulpreet Sokhi  
Senior Statistical Officer

Mr. Praful Nigam  
Junior Statistical Officer

## INDEX

<b>Chapter</b>	<b>Contents</b>	<b>Page No.</b>
	Acronyms	i-iii
	<b>CHAPTERS</b>	
Chapter 1	Introduction	1-13
Chapter 2	Material Flow Accounts	14-27
Chapter 3	Solid Waste Accounts	28-53
Chapter 4	Fish Provisioning Services	54-71
Chapter 5	Soil Erosion Prevention Services by the Forests	72-87

## ANNEXURES

Annexure 2.1	Domestic Extraction: Production and Value of Biomass, 2011-12
Annexure 2.2	Domestic Extraction: Quantity and Value of Minerals, 2011-12
Annexure 2.3	Quantity and Value of Exports, 2011-12
Annexure 2.4	Quantity and Value of Imports, 2011-12
Annexure 2.5	Domestic Extraction: Production and Value of Biomass, 2015-16
Annexure 2.6	Domestic Extraction: Quantity and Value of Minerals, 2015-16
Annexure 2.7	Quantity and Value of Exports, 2015-16
Annexure 2.8	Quantity and Value of Imports, 2015-16
Annexure 2.9	Domestic Extraction: Production and Value of Biomass, 2020-21
Annexure 2.10	Domestic Extraction: Quantity and Value of Minerals, 2020-21
Annexure 2.11	Quantity and Value of Exports, 2020-21
Annexure 2.12	Quantity and Value of Imports, 2020-21
Annexure 3.1	Year-wise Physical Supply Table for Solid Waste -Chandigarh - Generation of Solid Waste
Annexure 3.2	Year-wise Physical Use Table for Solid Waste – Chandigarh - Disposal and Treatment of Solid Waste
Annexure 3.3	Year-wise Physical Supply Table for Solid Waste – Gujarat - Generation of Solid Waste
Annexure 3.4	Year-wise Physical Use Table for Solid Waste – Gujarat - Disposal and Treatment of Solid Waste
Annexure 3.5	Year-wise Physical Supply Table for Solid Waste - Jammu & Kashmir - Generation of Solid Waste
Annexure 3.6	Year-wise Physical Use Table for Solid Waste - Jammu & Kashmir - Disposal and Treatment of Solid Waste
Annexure 3.7	Year-wise Physical Supply Table for Solid Waste – Maharashtra - Generation of Solid Waste
Annexure 3.8	Year-wise Physical Use Table for Solid Waste – Maharashtra - Disposal and Treatment of Solid Waste
Annexure 3.9	Year-wise Physical Supply Table for Solid Waste – Mizoram - Generation of Solid Waste
Annexure 3.10	Year-wise Physical Use Table for Solid Waste – Mizoram - Disposal and Treatment of Solid Waste
Annexure 3.11	Year-wise Physical Supply Table for Solid Waste – Rajasthan - Generation of Solid Waste
Annexure 3.12	Year-wise Physical Use Table for Solid Waste – Rajasthan - Disposal and Treatment of Solid Waste
Annexure 3.13	Year-wise Physical Supply Table for Solid Waste - Tamil Nadu - Generation of Solid Waste

Annexure 3.14	Year-wise Physical Use Table for Solid Waste - Tamil Nadu - Disposal and Treatment of Solid Waste
Annexure 3.15	Global SDG Indicator 11.6.1: Proportion of municipal solid waste collected and managed in controlled facilities out of total municipal waste generated
Annexure 3.16	Global SDG Indicator 12.4.2: (a) Hazardous waste generated per capita; and (b) proportion of hazardous waste treated, by type of treatment.
Annexure 4.1	District wise Estimates of Fish Provisioning Services State: Bihar for the year 2017-18
Annexure 4.2	District wise Estimates of Fish Provisioning Services State: Bihar for the year 2018-19
Annexure 4.3	District wise Estimates of Fish Provisioning Services State: Bihar for the year 2019-20
Annexure 4.4	District wise Estimates of Fish Provisioning Services State: Bihar for the year 2020-21
Annexure 4.5	District wise Estimates of Fish Provisioning Services State: Bihar for the year 2021-22
Annexure 4.6	District wise Estimates of Fish Provisioning Services State: Tamil Nadu for the year 2016-17
Annexure 4.7	District wise Estimates of Fish Provisioning Services State: Tamil Nadu for the year 2017-18
Annexure 4.8	District wise Estimates of Fish Provisioning Services State: Tamil Nadu for the year 2018-19
Annexure 4.9	District wise Estimates of Fish Provisioning Services State: Tamil Nadu for the year 2019-20
Annexure 4.10	District wise Estimates of Fish Provisioning Services State: Tamil Nadu for the year 2020-21
Annexure 5.1	Note on the Conceptual Differences in the Definition of "Forests" across India's Official Data Sources

## ACRONYMS AND ABBREVIATIONS

<b>B</b>	BHUVAN	Indian Geo-Platform of ISRO
	BMWM	Biomedical Waste Management
<b>C</b>	C&D Waste	Construction & Demolition Waste
	CAR	Consolidated Annual Report
	CARTOSAT	Cartography and Satellite
	CARTO_DEM	Indian National DEM generated from Cartosat-1 stereo data
	CBD	Convention of Biological Diversity
	CBWTF	Common Bio-medical Waste Treatment Facility
	CERC	Central Electricity Regulatory Commission
	CPCB	Central Pollution Control Board
	CPHEEO	Central Public Health and Environmental Engineering Organization
	CRT	Cathode-Ray Tube
	CTF	Captive Treatment Facility
	CUM	Cubic Metre
<b>D</b>	DE	Domestic Extraction
	DEM	Digital Elevation Models
	DFFDA	District Fish Farmers Development Agencies
	DGCIS	Directorate General of Commercial Intelligence and Statistics
	DISCOMS	Distribution Companies
	DMC	Domestic Material Consumption
	DMI	Direct Material Input
	DPR	Detailed Project Report
<b>E</b>	ECSWG	Environment and Climate Sustainability Working Group
	EEE	Electric and Electronic Equipment
	EPR	Extended Producer Responsibility
	ESRI	Environmental Systems Research Institute
	EU	European Union
	EW-MFA	Economy Wide Material Flow Accounts
<b>F</b>	FAO	Food & Agriculture Organization
	FAR	Floor Area Ratio
	FIDF	Fisheries and Aquaculture Infrastructure Development
	FPS	Fish Provisioning Service
	FSI	Forest Survey of India
<b>G</b>	GDP	Gross Domestic Product
	GHG	Green House Gases
	GIF	GRM Fissile Isotope
	GPS	Global Positioning System
	GRIHA	Green Rating for Integrated Habitat Assessment
	GSDP	Gross State Domestic Product
	GVO	Gross Value of Output
	GIS	Geographic Information System
<b>H</b>	HCF	Health Care Facilities

	HOWM	Hazardous and Other Waste Management
	HW	Hazardous Waste
<b>I</b>	IBM	Indian Bureau of Mines
	IGBC	Indian Green Building Council
	IISc	Indian Institute of Science
	INM	Integrated Nutrient Management
	IPCC	Intergovernmental Panel on Climate Change
	ISIC	International Standard Industrial Classification
	ISRO	Indian Space Research Organization
	IUCN	International Union for Conservation of Nature
<b>K</b>	KCC	Kisan Credit Card
	KG	Kilogram
<b>L</b>	LEED	Leadership in Energy and Environmental Design
	LISS-III	Linear Imaging and Self Scanning Sensor
	LTR	Litre
	LUCC	Land Use and Cover Change
	LUCI_SEEA	Land Utilization and Capability Indicator - System of Environmental-Economic Accounting
	LULC	Land Use Land Cover
<b>M</b>	MCC	Municipal Corporation of Chandigarh
	MFA	Material Flow Accounts
	MMT	Million Metric Tons
	MoEFCC	Ministry of Environment, Forests and Climate Change
	MoHUA	Ministry of Housing and Urban Affairs
	MOSPI	Ministry of Statistics & Programme Implementation
	MRF	Material Recovery Facility
	MSW	Municipal Solid Waste
	MTR	Metre
<b>N</b>	NCAVES	Natural Capital Accounting and Valuation of Ecosystem services
	NDVI	Normalized Difference Vegetation Index
	NIC	National Informatics Centre
	NOS	Numbers
	NRSC	National Remote Sensing Centre
	NSO	National Statistical Office
	NTFP	Non-Timber Forest Products
	NIF	National Indicator Framework
<b>P</b>	PCC	Pollution Control Committee
	PMMSY	Pradhan Mantri Matsya Sampada Yojana
	PRS	Pairs
	PSUT	Physical Supply and Use Table
	PTB	Physical Trade Balance
	PWD	Public Works Department
	PWM	Plastic Waste Management
<b>R</b>	RDF	Refuse Derived Fuel
	RME	Raw Material Equivalents

	RoHS	Restriction of Hazardous Substances
	RRRR	Reduce, Reuse, Recycle and Recover
	RS	Remote Sensing
	RUSLE	Revised Universal Soil Loss Equation
	3R	Reduce, Reuse and Recycle
<b>S</b>	SDGs	Sustainable Development Goals
	SEEA	System of Environmental-Economic Accounting
	SEEA- EA	System of Environmental-Economic Accounting - Ecosystem Accounting
	SEEA-CF	System of Environmental-Economic Accounting - Central Framework
	SLUSI	Soil and Land Use Survey of India
	SNA	System of National Accounts
	SOI	Survey of India
	SPCB	State Pollution Control Board
	SQM	Square Metre
	SWM	Solid Waste Management
<b>T</b>	THN	Thousand
	TKW	Thousand Kernel Weight
	TONS	Tonnes
	TPA	Tonnes Per Annum
	TPD	Tonnes Per Day
	TNFDC	Tamil Nadu Fisheries Development Corporations
<b>U</b>	ULB	Urban Local Bodies
	UN	United Nations
	UNEP	United Nations Environment Programme
	UNSC	United Nations Statistical Commission
	UNSD	United Nations Statistics Division
	UN-SDG	United Nations Sustainable Development Goals
<b>W</b>	WRD	Water Resources Department