

**Watershed Development Department
Government of _____**

**Terms of Reference for the Bidders
for **Expression of Interest****

**For Monitoring, Evaluation, Learning and Documentation (MEL & D)
of the Batch----- Projects of
Integrated Watershed Management Programme (IWMP)**

1.0 Introduction

------(State name) is the one of the State in the country implementing the Integrated Watershed Management Programme (IWMP) of Government of India (GoI) since 2009-10.

Currently four batches of projects are under implementation under IWMP. The implementation is on the lines of the Revised Common Guidelines for Watershed Development Projects-2011, issued by the Government of India (GoI). NGOs play a major role as facilitators of implementation and are involved in creating awareness about the project and capacity building of community based organisations formed under IWMP.

Presently the implementation of projects under III Batch sanctioned during 2011-12 is in the Preparatory Phase. Besides, Under Batch-IV also, projects have been sanctioned during 2012-13 and the implementation of these projects is likely to start soon. **The project period under both batches is a maximum of 4-7 years as stipulated by GoI.**

It is desired that an external MEL &D system for both III and IV batches of IWMP projects is in place at the earliest. The Batch-III projects cover an estimated area----- lakh Ha and are distributed in -----districts of the State. The Batch-IV projects covering an area of 3.32 lakh Ha are also distributed in _____districts of the State. The Revenue Division-wise details of projects are given in Annexure IA.

The MEL&D work in Batch-III projects will commence from the date of signing of agreements with the selected agencies & Batch IV.

The treatable areas given in Annexure IA and Annexure IB are likely to vary by 10-15%, and the exact extent will be known only after the completion of Net Planning process of these projects.

2.1 Major objectives of IWMP

The Integrated Watershed Management Programme (IWMP) is one of the flagship programmes of the Govt. of India and is being implemented by the Department of Land Resources (DoLR) in all states of the country having an outlay of around Rs. 29,000 Crores for the 12th Plan. The programme envisages restoring the ecological balance by harnessing, conserving and developing degraded natural resources such as soil, vegetative cover & water through watershed management initiatives. The objectives otherwise can be stated as-

- i. Increase the productive potential of degraded lands through various watershed interventions.
- ii. Improve the biomass through Agro-Horticulture, Agro-Forestry and Silvi-Pastoral systems.

Common Guidelines Watershed Development Projects 2015

Rachel Sandford



Common Guidelines Watershed Development Projects 2015:

Hydrosystem Restoration Handbook Saeid Eslamian, Faezeh Eslamian, 2025-11-29 Hydrosystem Restoration Handbook Groundwater Artificial Recharge with Conventional Water GARC introduces innovative groundwater recharge techniques Through the introduction of powerful case studies the book offers key strategies to researchers and graduate students for managing CARC and monitoring groundwater levels Comprehensive structure This book provides a thorough exploration of groundwater recharge starting from foundational concepts and traditional techniques moving through practical case studies and culminating in advanced methodologies and future innovations Real world relevance By presenting diverse case studies and regional implementations this book effectively connects theoretical knowledge to practical applications demonstrating how water challenges are addressed in various contexts around the globe Forward looking perspective With a focus on cutting edge research emerging technologies and sustainable water management practices this book offers readers valuable insights into the evolving field and its potential future impacts Applications and Challenges of Geospatial Technology Pavan Kumar, Meenu Rani, Prem Chandra Pandey, Haroon Sajjad, Bhagwan Singh Chaudhary, 2018-11-24 This book advances the scientific understanding and application of space based technologies to address a variety of areas related to sustainable development including environmental systems analysis environmental management clean processes green chemistry and green engineering Geo spatial techniques have gained considerable interest in recent decades among the earth and environmental science communities for solving and understanding various complex problems and approaches towards sustainable technologies The book encompasses several scopes of interests on sustainable technologies in areas such as water resources forestry remote sensing meteorology atmospheric and oceanic modeling environmental engineering and management civil engineering air and environmental pollution water quality problems etc The book will appeal to people with an interest in geo spatial techniques sustainable development and other diverse backgrounds within earth and environmental sciences field **Water Law in India** Philippe Cullet, Sujith Koonan, 2018-02-15 First published in 2011 Water Law in India is the only book to offer a comprehensive survey of the legal instruments concerning water in India It presents a variety of national and state level instruments that make up the complex and diverse field of water law and policy This book fills a critical gap in the study of water law providing a rich reference point for the entire gamut of legal mechanisms available in India This edition has been extensively revised to include new instruments on water regulation such as the draft National Water Framework Bill 2016 and the Model Groundwater Sustainable Management Act 2016 new water related instruments in such varied fields as criminal law land acquisition law and rural employment legislation and a chapter on international legal instruments Chapters on drinking water supply environmental dimensions of water conservation water infrastructure for irrigation and flood control groundwater regulation and institutions catering to water have been thoroughly updated for a complete coverage of water law TERI Energy &

Environment Data Diary and Yearbook (TEDDY) 2020/21 TERI, TERI Energy Environment Data Diary and Yearbook TEDDY is an annual publication brought out by TERI since 1986 It is the only comprehensive energy and environment yearbook in India that provides updated information on the energy supply sectors coal and lignite petroleum and natural gas power and renewable energy sources energy demand sectors agriculture industry transport household buildings and environment local and global Recent changes in the energy sector and environment are depicted with the help of graphs figures maps and tables The publication also reviews government policies associated with energy and environment TEDDY 2020 21 gives an account of India s commercial energy balances extensively covering energy flows within different sectors of the economy and how they have been changing over time These energy balances and conversion factors are a valuable reference for researchers scholars and organizations engaged in energy and related sectors Contents of the book are organized into three sections Energy Supply Energy Demand and Local and Global Environment Interlinkage of SDGs with energy and environment also forms the subject matter of TEDDY 2020 21 The thirty sixth edition continues to remain less prose intensive with inclusion of more data represented with the help of infographics thus making the publication an authentic and interesting read Key Features Provides a review of government policies programmes and initiatives that have implications for the petroleum and natural gas sector and the Indian economy New chapters on Air Pollution Solid Waste Management Water Resource Management and Land and Forest Resource Management Exhaustive data from energy supply energy demand and local and global environment sectors Contents Energy and environment an overview Energy supply Coal and lignite Petroleum and natural gas Power Renewable energy Energy demand Agriculture Industry Transport Household energy Buildings Local and global environment Air quality and pollution Solid waste management Water resource management Land and forest resource management Climate change Audience Researchers and Professionals from industries government organizations and public sector undertakings Research scholars from different NGOs bilateral and multilateral institutions and academic institutions Shelving Energy Environmental Sciences and Studies Industry Coal and lignite oil and gas power renewable energy climate change Agriculture sector Transport sector domestic sector For sample chapters and Sankey diagram please visit www.teriin.org/projects/teddy List of Tables Energy and Environment An Overview 1 SEC Indian industries 2 Trend in consumption of select petroleum products in the transport sector in India in MT Commercial energy balance 2019 20 Commercial energy balance 2020 21 P Coal and Lignite 1 New environmental norms for TPSs 2 FGD implementation status of TPSs general summary capacity in MW 3 FGD implementation status of TPSs situated in NCR capacity in MW Pithead run of mine price of non coking coal applicable for Eastern Coalfields Limited Bharat Coking Coal Limited Central Coalfields Limited Northern Coalfields Limited Mahanadi Coalfields Limited South Eastern Coalfields Limited and North Eastern Coalfields Limited with effect from 27 November 2020 Revised price of coking coal for NRS Pit head price of non coking coal applicable for Western Coalfields Limited with effect from 27 November 2020 Petroleum and

Natural Gas 1 Proved and probable reserves status during 2019 20 2 LNG terminals in India 3 Trend in installed refining capacity of Indian refineries 4 Trend in subsidies for the sale of petroleum and natural gas in India 5 List of taxes for the production and sale of crude oil in India 6 List of taxes for the production and sale of natural gas in India 7 Retail selling price and taxes on petrol and diesel in India and other countries in 2019 20 8 Trend in CNG stations CNG vehicles and CNG sales quantity in India City gas distribution bidding parameters Year wise work programme for successful CGD bidders Crude oil pipelines and capacity status Petroleum products pipeline infrastructure status Status of existing natural gas pipeline infrastructure Price build up of LPG in Delhi Price build up of superior kerosene oil LPG in Mumbai Price build up of MS in Delhi Price build up of HSD in Delhi Status of domestic PNG connections industrial commercial PNG and CNG connections as on 31 May 2021 Power 1 Progress of substations in India up to March 2020 2 Import export of energy by India into from countries during 2019 20 3 Status of construction of Green Energy Corridors as on 31 December 2019 4 Works accomplished under IPDS 5 State UT wise AT C loss performance in % 6 Average cost of supply average revenue and revenue gap 7 Selected state union territory average tariff for sale of electricity in India 2007 08 to 2013 14 in paise kWh 8 Sanctioned smart grid pilot projects and implementation status Renewable Energy 1 Status of solar parks in India 2 Top five players in solar PV 3 Benchmark costs for various solar thermal technologies Agriculture 1 Production imports and consumption of fertilizers 000 tonnes of fertilizers 2 Source wise net irrigated area in India in Mha 3 Distribution of GHG emissions by sub sectors from the agriculture sector in 2010 and 2016 in GgCO₂e 4 State UT wise cold storage capacity as on 31 December 2019 5 Irrigation water productivity of rice wheat and sugar cane in major growing states 6 State UT wise cumulative installation of solar water pumps as of 31 December 2020 7 On farm solar energy interventions linking water and land use in different states in India Policy categories and key nodal agency impacting energy use in agriculture Electricity consumption in the agriculture sector Industry 1 Brief overview of different PAT cycles for aluminium sector 2 Production of aluminium by primary aluminium producers in tonnes 3 SEC in aluminium smelting 4 Brief overview of different PAT cycles for cement sector 5 Cement production 6 Average and best practice energy consumption values for Indian cement plants by process 7 Brief overview of different PAT cycle for chlor alkali sector 8 Production of chlor alkali 9 Section wise energy consumption in caustic soda production 10 Brief overview of different PAT cycles for fertilizer sector 11 Production of urea DAP and complex fertilizers in MT 12 Benchmarking energy consumption in the fertilizer sector 13 Brief overview of different PAT cycles for iron and steel sector 14 Crude steel production and capacity utilization 15 Comparison of Indian and international SEC for steel industry 16 Brief overview of different PAT cycles for pulp and paper sector 17 Benchmarking energy consumption in different industry groups of pulp and paper sector 18 Brief overview of different PAT cycles for textile sector 19 Production of yarn and fabric in India 20 Typical energy requirements for different process in the textile industry 21 Brief overview of different PAT cycles for petrochemical sector 22 Production in MT of major petrochemicals in India 23

Share of different types of energy consumption in petrochemical plants in % 24 Energy for ethane and naphtha crackers

Transport 1 Trend in consumption of select petroleum products in India 2 India's road network 3 Lane wise length of national highways in India in km 4 Freight and passenger movement by roads 5 Major port wise capacity utilization during 2018 19 in MT 6 Cargo traffic handled at ports in India in MT 7 Traffic handled at non major ports in MT 8 Funds allocated under Sagarmala scheme to coastal states UTs 2015 16 2018 19 9 Cargo movement through inland waterways transport 10 Airports in India 11 Passenger traffic carried by scheduled airlines in million 12 Freight traffic carried by scheduled airlines in thousand tonnes 13 App based transport projects under Smart Cities Mission 14 Operational metro rail length in Indian cities as of April 2021 New acts bills rules Status of various construction projects Policies and programmes Green initiatives Household Energy 1 A timeline of government acts policies and schemes for providing energy access to households Per capita consumption of electricity Per capita consumption of electricity in India Total energy consumption by countries regions Village electrification in India Reliability of power supply in rural and urban areas DISCOM wise monthly average duration of interruptions July 2021 in 11kV rural and mixed feeders Consumers total and residential of electricity in India Distribution of households based on energy source for lighting Source of energy for cooking in residential sector in India Percentage distribution of households by primary energy source for lighting 2001 02 2011 12 Percentage distribution of households by primary energy source for cooking 2001 02 2011 12 Consumption of LPG and kerosene Residential consumption of LPG and kerosene Residential consumers of LPG Electricity consumption and consumers in the residential sector Buildings 1 India's energy projections 2 Electricity demand by 2030 3 Air conditioning and cooling capacity of India in 2016 4 Final energy consumption for space cooling in buildings 5 Status of energy efficiency policies in India Air Quality and Pollution 1 State wise distribution of manual and continuous monitoring stations in operation under NAMP for 2020 2 Revised ambient air quality standards 2009 3 Breakpoints for AQI scale 0 500 4 State wise estimates of 24 h concentrations of PM_{2.5} in kitchens from the use of solid cooking fuels 5 Stack emission standards for major air polluting industries 6 New emission standards for TPPs 7 Emission standards for two wheeler and three wheeler categories 8 Emission standard for four wheeler 4W category 9 Emission norms for heavy diesel vehicles 10 Emission standards for generator sets gensets 11 Dose response study of short term effects of criteria air pollutants on all daily mortality in India 12 Dose response study of short term effects of criteria air pollutants all cause mortality around the globe 13 Recent policies in different sectors to improve air quality in India Comparison of ambient air quality standards of different countries Number of days different cities towns exceeded the NAAQS of PM_{2.5} in 2018 Summary of source apportionment studies during the last decade in India Studies conducted relating to health effects of air pollution Solid Waste Management MSW gasification technologies Recycling facilities located in Delhi and Ahmedabad Management of C D waste in major cities of India Various treatment technologies for plastic waste and their environmental impacts Water Resource Management 1 Water resource potential in BCM in river

basins of India 2 Criteria for categorization of assessment units 3 Sustainable Development Goal 6 National Indicator Framework Land and Forest Resource Management 1 Nutrient wise consumption of fertilizer material in India 1999 2000 2018 19 in lakh MT 2 Category wise total area under wastelands 3 Changes in area under wetlands from 2005 06 to 2011 12 4 Status of wetland conservation in India 5 Number of forest fire alerts issued by FSI from November 2018 to June 2019 6 State UT wise funds released under National Afforestation Programme INR in crore 7 Year wise funds released under Green India Mission from 2016 17 2020 21 INR in crore 8 State UT wise funds released under Compensatory Afforestation Funds by Ad hoc CAMPA 9 Number of floral species their endemism and threat status 10 Number of faunal species their endemism and threat status 11 Animals plants fungi and protists in the International Union for Conservation of Nature Red List Categories 12 PAs in India 13 Some key acts related to the forestry and biodiversity sector in India Climate Change 1 Emission scenario 2 Level of CO₂ emissions in billion tonnes of CO₂ 3 Emission trends across four major CO₂ emitters 4 Global emissions and emission gap under the implementation of INDC for 2030 median and range in GTCO₂e 5 Sector wise national GHG emission in MT for 2016 6 Current status of state action plans on climate change Carbon dioxide emissions across regions in MtCO₂ Missions under National Action Plan on Climate Change a Projects sanctioned under National Adaptation Fund on Climate Change b Projects sanctioned under National Adaptation Fund on Climate Change List of Figures Energy and Environment An Overview 1 Energy mix in 2020 21 2 Sankey diagram for 2020 21 P 3 Industry wise consumption of raw coal 4 Coal transportation by various modes for 2020 21 Total balance recoverable crude oil and natural gas reserves in India 4 5 Trend in domestic crude oil production 6 Crude import product imports and total imports in 000 MT 7 Trend in natural gas production imports consumption and import dependency 8 Installed generating capacity in India by mode utilities 9 Growth of gross electricity generation in India by mode 10 Growth of renewable energy sources 11 HSD and LDO consumption in the agriculture sector 12 Trends in electricity consumption in the industry sector 13 Consumption of selected petroleum products in the industry sector 14 Trend in fuel consumption in the Indian Railways 15 All India annual per capita consumption of electricity since 2006 16 Consumption of electricity by the domestic sector from 2011 12 to 2020 21 P 17 Percentage distribution of households by primary energy source for cooking 2001 02 and 2011 12 18 Electricity consumption kWh in BU for commercial building segments 19 Commercial and residential energy consumption by use 20 Annual ambient concentrations of i SO₂ and ii NO₂ pollutants across the country 2008 20 21 Annual ambient concentrations of PM_{2.5} across the country 2014 20 22 Annual ambient concentrations of PM₁₀ across the country 2008 20 23 Per capita water availability in relation to population 24 Municipal solid waste management status in 2018 19 25 Trend of average water table in India from 1980 to 2015 26 Percentage of land area under various uses in 2017 27 Land use change from 2010 11 to 2014 15 28 CO₂ emissions in India as compared to GDP PPP 29 CO₂ emissions within sub sectors in India Sankey diagram for 2019 20 Coal and Lignite 1 Coal reserves in India as on 1 April 2020 2 Lignite reserves in India as on 1 April 2020 3 Coal and lignite

production in India 4 Target versus actual coal supply in MT in India 5 Coal production by CIL and SCCL 6 Production of coal in % from opencast and underground mining 7 Coal off take in % by different sectors in India during 2020 21 8 Lignite off take in % by different sectors in India during 2020 21 9 Coal transportation by various modes for 2018 19 10 India's import of coal in percentage share 11 Coal imports and production trend in MT 12 India's export of coal in percentage share 13 Fly ash generation and utilization in MT between 2015 and 2021 14 Mode of fly ash utilization during 2019 20 Petroleum and Natural Gas 1 Total balance recoverable crude oil and natural gas reserves in India 2 Basin wise ultimate hydrocarbon reserves as on 31 March 2020 3 Basin wise in place hydrocarbon reserves as on 31 March 2020 4 Trend in domestic crude oil production 5 Crude import product imports and total imports 6 Crude import product imports and total imports 7 Trend in production of petroleum products from refineries and fractionators 8 Country wise crude oil imports by India 9 Trend in petroleum products consumption in India 10 Status of petroleum products consumption during 2019 20 11 Trend in domestic natural gas production 12 Trend in natural gas production and import dependency 13 Trend in consumption of natural gas by different sectors 14 Trend in consumption of imported and domestic natural gas by different sectors 15 Crude throughput of Indian refineries 16 Trend in gross refining margin of Indian refineries 17 Trend in subsidies for the sale of petroleum and natural gas in India 18 Share of tax duties to total contribution of petroleum sector to exchequer 19 Contribution of taxes from the oil and gas industry to the central exchequer 20 Trend of Excise Duty on petrol and diesel vis vis crude oil price in India 21 Contribution of taxes from the oil and gas industry to the state exchequer 22 State wise collection of sales tax VAT SGST UTGST from the oil and gas industry in 2019 20 23 Trend in retail selling price and taxes of gasoline in India vis vis other countries 24 Trend in retail selling price and taxes of diesel in India vis vis other countries 25 Trends in the price of domestic gas produced in India on GCV basis 26 Trend in the geographical areas offered and awarded under city gas distribution bidding 27 Status of state UT wise piped domestic commercial and industrial connections Indian sedimentary basins Power 1 Installed generating capacity in India by mode utilities as on 31 March 2021 2 Installed generating capacity in India by sector utilities as on 31 March 2021 3 Growth rate of installed generating capacity in India 2020 21 4 CAGR of installed generating capacity in India 2012 20 5 Growth rate of electricity generation in India 2019 20 6 Electricity generation in India 2012 20 7 Growth of gross electricity generation in India by mode 8 PLF of coal and lignite based power plants 9 Power supply position energy 10 Power supply position peak 11 Growth rate of peak demand and met 2011 21 12 Growth rate of energy requirement and availability 13 Sector wise electricity consumption pattern 14 Electricity intensity of economy 15 AT C and T D losses 16 Per capita electricity consumption 17 Sustainable Development Goals Renewable Energy 1 Linkages of other SDGs to SDG 7 2 Grid power and their percentage share till March 2021 3 Growth of renewable energy sources till March 2021 4 Top 10 states in renewable installation till March 2021 5 Installed solar capacity 2015 21 6 Top 10 states grid connected installed solar capacity till 28 February 2021 7 Solar tariff till March 2020 21 8 Top 10 states by

targets rooftop capacities 9 Net solar PV installed 2017 2020 10 State wise wind power potential at 100 m above ground level 11 Growth of wind energy sector till July 2019 12 State wise installed capacity as on December 2020 13 Cumulative biomass power gasification and bagasse cogeneration projects up to June 2019 14 State UT wise cumulative commissioned biomass power waste to power and bagasse cogeneration grid connected projects up to 30 June 2019 15 Family size biogas plants up to June 2019 16 State UT wise maximum waste generation and processing in urban areas in India as on 31 December 2018 17 Cumulative waste to energy power projects up to June 2019 18 State wise ethanol manufacturing capacity in India 19 Year wise cumulative installed capacity till June 2019 20 Tidal energy potential 21 Target for geothermal energy deployment Agriculture 1 Production of different agricultural products in India 2 HSD and LDO consumption in the agriculture sector 3 Electricity consumption in the agriculture sector 4 Region wise electricity consumption in the agriculture sector 5 Production of urea diammonium phosphate and other complex fertilizers in MT 6 Trend in GHG emission from the agriculture sector in India in GgCO₂e 7 Percentage share of major farm machineries used in Indian agriculture 8 Farm power availability and foodgrain yield 9 Share of major crops in the gross cropped area in India in % 10 Number of tractors sold 11 Number of power tillers sold 12 Number of diesel and electric pumps used in India 13 Selected state UT wise area covered under microirrigation drip and sprinkler in India Industry 1 Share of different processes in crude steel production Transport 1 World transport sector energy balance 2 Share in % of GHG emissions in transport sector in India 3 India transport sector energy balance 4 Total number of registered motor vehicles in India 5 Trend in electrification of route network of railways 6 Gauge wise growth in network of the Indian Railways 7 Addition made to capacity through new lines gauge conversion and doubling of lines by the Indian Railways 8 Trend in passenger traffic movement on the Indian Railways 9 Trend in railways freight segment earnings on average rate per tonne kilometre basis 10 Trend in fuel consumption in the Indian Railway 11 Share of commodity groups in total traffic at major ports in 2017 18 12 Growth in capacity in Indian shipping industry in terms of number of vessels and gross tonnage 13 Trend in passenger load factor of scheduled Indian airlines in the domestic market Household Energy 1 Residential consumers of LPG 2 Percentage of power consumption in residential sector to total power consumed by all sectors 3 Consumption of LPG and kerosene in the residential sector 4 LPG refills from May 2016 until June 2019 5 Growth of LPG consumers in India 6 Consumption of LPG consumers in India 7 Consumption of LPG in % in residential sector 8 Growth of residential consumers in India 9 Consumption of electricity by residential sector Buildings 1 Consumption of electricity by sectors in India in 2019 20 2 Commercial energy consumption by use 3 Residential energy consumption by use 4 Building typologies as per ECBC 2017 5 Building typologies as per Eco Niwas Samhita 2018 6 HVAC load break up in % 7 Energy efficient building design process 8 Building form and orientation for passive design 9 Shading design strategies 10 Structural and thermal loads 11 Fa ade with different WWR 12 Daylighting as a passive design strategy 13 Types of ventilation 14 Energy reduction with increase in design indoor temperature 15 Percentage growth of cooling

requirement in India Air Quality and Pollution 1 Annual ambient concentration of different pollutants across the country during 2008 20 2 State UT wise average ambient air quality status of different pollutant parameters for the period of 2008 20 3 Sectorial contribution to ambient PM10 and PM2 5 4 Institutional framework of air quality governance in India Solid Waste Management 1 Trajectory of average MSW generated in India between 2011 and 2019 2 MSW management status in India 3 MSW composition for waste received from Gurugram 4 Status of solid waste treatment 5 Major e waste contributing states in India 6 Composition of plastic waste in major plastic waste generating cities in India as of 2015 16 7 GHG emissions from solid waste disposal sites and reduction potential 8 Emission points from MSW sector Status of MSW generation in each state UT of India Major recycling infrastructure in some of the states of India Plastic waste generation in some of the Indian states UTs Management of plastics in India Average constituents of C D waste C D waste generated in major cities of India C D waste management in India C D waste recycling in a typical recycling facility Water Resource Management 1 Per capita water availability in relation to population a Category of groundwater exploitation in monitored blocks in India and b the number of groundwater assessment units 2 Depth to water level maps for a pre monsoon and b post monsoon in 2018 3 Trend of average water table in India from 1980 to 2015 4 Number of districts with fluoride in groundwater above the permissible limit 5 Number of locations in different states with arsenic concentration in groundwater above the permissible limit 0 01 to 0 05 mg L and 0 05 mg L 6 Number of districts with electrical conductivity in groundwater above the permissible limit 7 Number of districts with iron in groundwater above the permissible limit 8 Number of districts with nitrate in groundwater above the permissible limit 45 mg L 9 Net irrigated area in India 10 Access to safe drinking water in rural households in % 11 Access to safe drinking water in urban households in % 12 BOD trends of waterbodies in India in mg L 13 Total coliform in MPN 100 mL trends of waterbodies in India 14 Faecal coliform in MPN 100 mL trends of waterbodies in India Land and Forest Resource Management 1 Percentage of area under various uses in 2017 2 Land use change from 2010 11 to 2014 15 3 Linkage of SDG 15 to other SDGs 4 Forest cover in terms of percentage to the total geographical area 5 Trend analysis of forest cover in India between 2005 and 2019 6 Forest area of six regions of the country along with annual fire alerts 7 Trend in afforestation from 2007 08 to 2014 15 by MoEFCC 8 Endemic and threatened endemic species of India 9 The area under protected areas in India Climate Change 1 Annual total number of extreme climatic events in India 2 All India annual mean temperature anomalies for 1901 2020 based on the 1981 2010 average 3 Spatial patterns of liner trends of a maximum and b minimum temperatures 4 Spatial pattern of trend C 100 years in mean annual temperature anomalies 1901 2020 5 Decadal means of all India summer monsoon rainfall in percentage departure from mean 6 All India annual mean percentage departures for 1901 2020 based on the 1961 2010 average 7 Sub divisional trends of a seasonal and b monsoon rainfall for 1901 2003 8 Time series of active upper panel and break lower panel during the monsoon season 9 Cyclone tracks of depressions and cyclonic storms formed during 2020 a monsoon season b other

seasons 10 Emission trends across four major CO₂ emitters 11 CO₂ emissions in MTCO₂ in India in comparison to GDP PPP 12 CO₂ emissions within subsectors in India 13 Emissions by fuel type in India 14 Comparison of coal cess collected amount transferred to and financed from projects recommended under NCEEF List of Maps Petroleum and Natural gas 1 Crude oil and product infrastructure in India 2 Natural gas infrastructure in India Renewable Energy 1 Solar potential of Indian states union territories 2 State wise wind energy potential at 100 120 m above ground level 3 Biomass power bagasse cogeneration and waste to energy 4 Small hydro potential in India 5 Geothermal potential in India Agriculture 1 State wise annual land use cover change in India 2003 05 to 2011 13 Building 1 Climate zone map of India Water Resource Management 1 Places with fluoride concentration more than 1 5 mg L 2 Locations with arsenic concentration in groundwater above the permissible limit 0 01 to 0 05 mg L and 0 05 mg L 3 Distribution of electrical conductivity in India Land and Forest Resource Management 1 Wasteland map of India 2 State wise number of wetlands in India 3 Forest types in India 4 Forest cover in India

TERI Energy & Environment Data Diary and Yearbook (TEDDY) 2017/18 TERI,2019-03-01 TERI Energy Environment Data Diary and Yearbook TEDDY is an annual publication brought out by The Energy and Resources Institute TERI since 1986 It is the only comprehensive energy and environment yearbook in India that provides updated information on the energy supply sectors coal and lignite petroleum and natural gas power and renewable energy sources energy demand sectors agriculture industry transport household and local and global environment sectors environment and climate change The publication also provides a review of the government policies that have implications for the sectors of the Indian economy In TEDDY an account of India's commercial energy balances is given which provide comprehensive information on energy flows within different sectors of the economy and how they have been changing over time These energy balances and conversion factors are a valuable ready reckoner for researchers scholars and organizations working in the energy sector After the introductory chapters for the ease of readers TEDDY has been divided into sections on energy supply energy demand and local and global environment Interactive graphs figures maps and tables have been used throughout the chapters to explain facts which make the book an interesting read In addition detailed tables at the end of each chapter represent statistical data on each of the above mentioned sectors The publication is accompanied by a complimentary CD containing full text The publication has more than 15 000 readers across the globe and is often cited in international peer reviewed journals and policy documents

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India's commercial energy balances extensively covering energy flows within different sectors of the economy and how they have been changing over time. These energy balances and conversion factors are a valuable reference for researchers, scholars, and organizations engaged in energy and related sectors. After the introductory chapter, TEDDY 2018/19 is divided into three sections: Energy Supply, Energy Demand, and Local and Global Environment. One of the main highlights of TEDDY 2018/19 is the addition of a new chapter, Buildings under Energy Demand section. This chapter gives an in-depth analysis of India's energy consumption by the buildings sector and highlights the role of energy efficiency in buildings from the perspectives of both economy and environment. The thirty-fourth edition of TEDDY continues to remain less prose-intensive with inclusion of more data represented with the help of infographics, thus making the publication an authentic and interesting read. TEDDY 2018/19 also features a section on interlinkages of SDGs with energy and environment. Key Features: Provides a review of government policies, programmes, and initiatives that have implications for the petroleum and natural gas sector and the Indian economy. New chapters on Air Pollution, Solid Waste Management, Water Resource Management, and Land and Forest Resource Management. Exhaustive data from energy supply, energy demand, and local and global environment sectors. Contents: Energy and environment: an overview; Energy supply: Coal and lignite, Petroleum and natural gas, Power, Renewable energy; Energy demand: Agriculture, Industry, Transport, Household energy, Buildings; Local and global environment: Air quality and pollution, Solid waste management, Water resource management, Land and forest resource management, Climate change.

TERI Energy & Environment Data Diary and Yearbook (TEDDY) 2019/20

TERI, 2021-07-01. TERI Energy Environment Data Diary and Yearbook. TEDDY is an annual publication brought out by TERI since 1986. It is the only comprehensive energy and environment yearbook in India that provides updated information on the energy supply sectors: coal and lignite, petroleum and natural gas, power, and renewable energy sources; energy demand sectors: agriculture, industry, transport, household, buildings, and environment; local and global. Recent changes in the energy sector and environment are depicted with the help of graphs, figures, maps, and tables. The publication also reviews government policies associated with energy and environment. TEDDY 2019/20 gives an account of India's commercial energy balances extensively covering energy flows within different sectors of the economy and how they have been changing over time. These energy balances and conversion factors are a valuable reference for researchers, scholars, and organizations engaged in energy and related sectors. Contents of the book are organized into three sections: Energy Supply, Energy Demand, and Local and Global Environment. Interlinkage of SDGs with energy and environment also forms the subject matter of TEDDY 2019/20. The thirty-fifth edition continues to remain less prose-intensive with inclusion of more data represented with the help of infographics, thus making the publication an authentic and interesting read. Key Features: Provides a review of government policies, programmes, and initiatives that have implications for the petroleum and natural gas sector and the Indian economy. New chapters on Air Pollution, Solid Waste Management, Water Resource Management, and Land and Forest

Resource Management Exhaustive data from energy supply energy demand and local and global environment sectors
Contents Energy and environment an overview Energy supply Coal and lignite Petroleum and natural gas Power Renewable energy Energy demand Agriculture Industry Transport Household energy Buildings Local and global environment Air quality and pollution Solid waste management Water resource management Land and forest resource management Climate change Audience Researchers and Professionals from industries government organizations and public sector undertakings Research scholars from different NGOs bilateral and multilateral institutions and academic institutions Shelving Energy Environmental Sciences and Studies Industry Coal and lignite oil and gas power renewable energy climate change Agriculture sector Transport sector domestic sector

TERI Energy & Environment Data Diary and Yearbook (TEDDY) 2016/17

TERI,2018-03-22 TERI Energy Environment Data Diary and Yearbook TEDDY is an annual publication brought out by The Energy and Resources Institute TERI since 1986 It is the only comprehensive energy and environment yearbook in India that provides updated information on the energy supply sectors coal and lignite petroleum and natural gas power and renewable energy sources energy demand sectors agriculture industry transport household and local and global environment sectors environment and climate change The publication also provides a review of the government policies that have implications for the sectors of the Indian economy In TEDDY an account of India s commercial energy balances is given which provide comprehensive information on energy flows within different sectors of the economy and how they have been changing over time These energy balances and conversion factors are a valuable ready reckoner for researchers scholars and organizations working in the energy sector After the introductory chapters for the ease of readers TEDDY has been divided into sections on energy supply energy demand and local and global environment Interactive graphs figures maps and tables have been used throughout the chapters to explain facts which make the book an interesting read In addition detailed tables at the end of each chapter represent statistical data on each of the above mentioned sectors The publication is accompanied by a complimentary CD containing full text The publication has more than 15 000 readers across the globe and is often cited in international peer reviewed journals and policy documents

Common Guidelines for Watershed Development

Projects National Rainfed Area Authority (India),2008 **Economic Survey ,2018** **"Code of Massachusetts regulations, 2015"** ,2015 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 Parliamentary Debates India. Parliament. Rajya Sabha,2016-08

Preparing for the Next Generation of Watershed Management Programmes and Projects, Europe Moujahed

Achouri,2005 *Parliamentary Debates, House of the People* India. Parliament. Lok Sabha,2008-04-23 **Colorado's Water Plan** ,2015 **Southern California Coastal Water Research Project Annual Report** Southern California Coastal Water Research Project,2015 *Annual Report* New Jersey Water Supply Authority,2015 *Project Management* Jack R. Meredith,Samuel J. Mantel,2006 Jack Meridith offers readers an insight into human behaviour knowledge of organisational

issues and quantitative methods needed to do project management He emphasises the challenges they ll face including planning negotiating budgeting communicating and scheduling **Words Into Action Guidelines Implementation Guide for Addressing Water-related Disasters and Transboundary Cooperation** ,2018 The majority of disasters are water related with the flow of freshwater mostly occurring in transboundary basins This Words into Action Guide has been prepared by UNECE and UNISDR to support the implementation of the Sendai Framework It aims to raise awareness on the importance of river basin management and transboundary cooperation in Disaster Risk Reduction while taking into account climate change adaptation It provides information on steps that governments in particular at the different levels can take to harness the values of river basin management and transboundary cooperation together with good practices and lessons learned in this field Guide to Distance Learning Programs University Continuing Education Association,2001

Common Guidelines Watershed Development Projects 2015 Book Review: Unveiling the Magic of Language

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