Ministry of Environment, Forest and Climate Change Demand No. 28

1. Environmental Knowledge and Capacity Building: Forestry Training and Capacity Building (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
8.62	1. Training to IFS/other forest officers on latest technologies, new ideas and changing their attitude for managing the natural resources of the country	1.1 No. of one week refresher training courses conducted during the year	35	1. Build up a pool of specialized officers on aspects like biodiversity valuation principles, trade and intellectual property rights, bio-piracy, gene pool management, protected area effectiveness, environmental economics, environmental valuation techniques, forest certification, monitoring indicators, carbon sequestration, Application of RS	1.1 Cumulative no. of forest officers skilled/trained specifically in the thrust areas of environment, wildlife and forest through domestic/foreign training	1453
		1.2 No. of IFS officers trained through one week refresher training courses	875			
		1.3 No. of two days training workshops conducted during the year	15			
		1.4 No. of IFS officers trained through two days training workshops	525			
		1.5 No. of long term course trainings conducted during the year	5			
		1.6 No. of IFS officers trained through long term course trainings	5			

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
		1.7 No. of Foreign Trainings conducted for Forestry personnel	3	& GIS in forestry etc.		
		1.8 No. of Forestry personnel trained through foreign trainings	48			
	2. Training to personnel of other services and other stakeholders on various aspects of forest, wildlife and environment conservation	2.1 No. of trainings conducted for personnel of other services	10	2. Build up a pool of well-informed and sensitized public as well as personnel of other services on aspect like forestry management activities natural resource management, environmental conservation, legal issues in forest wildlife and environment, joint forest management etc.	2.1 Cumulative no. of other stakeholders and personnel of other services exposed and sensitized in thrust areas of environment, wildlife and forest conservation.	750
		2.2 No of personnel of other services trained	250			
		2.3 No. of trainings conducted for other stakeholders	20			
		2.4 No of other stakeholders trained	500			

2. Environmental Knowledge and Capacity Building: Eco Task Force (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
70	1. Afforestation	1.1 Area (in ha) covered under plantation during the year	2800	1. Ecological restoration of inhospitable/ difficult / remote and inaccessible areas	1.1 Difficult/inaccessible /remote area covered under plantation (in ha)	2800
		1.2 Number of seedling planted (in lakh) during the year	28	2. Promotion of meaningful employment to Ex-Servicemen	2.1 Number of ex-servicemen provided with employment	2000

3. National Coastal Management Program (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
195	1. Sustainable development and environment	1.1 Number of beaches to be covered by activities to improve	04	1. No. of clean model beaches that have	1.1 Pollution and solid waste free beaches developed	04

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
	management of coastal region	tourism and income to coastal communities		achieved International Standards in India under the Beach Environment &Aesthetic Management System (BEAMS)		
	2. Awareness increased through Environment Education Events	2.1 Number of events with all coastal States/UTs.	15	2. Improved knowledge regarding marine and coastal environment.	2.1 No. of participants who attended events	2250
	3. Assessment of coastal erosion and recommendation for sustainable interventions- Green coastal Infrastructure	3.1 Identification of Erosion "Hotspots" classified as Highly eroding (> 5m per year) at six locations	06	3. Shoreline change assessment for east coast of India	3.1 No. of Reports on High/Medium erosion stretches along the east coast of India prepared.	01

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
	4. Restoration, monitoring and management plan of Pulicat lagoon.	4.1 Ecosystem Health of Pulicat Lagoon sq. km. area monitored	369	4. Periodical evaluation of ecosystem health of Pulicat Lagoon, livelihood dependence of the community on the natural resources identified and hydrodynamic and hydrological conditions for bar mouth closure identified	4.1 Lagoon Ecosystem Health Report Card prepared	01
	5. Assessment report on Benthic ecosystem and coastal acidification	5.1 Maps of Water Quality index, with specific reference to pH and other forcing factors of acidification and Coral Health Index developed	25	5. Status report on healthy coral reefs and associated benthic ecosystem diversity	5.1 No. of reports prepared	2

4. Environment Protection, Management and Sustainable Development: Hazardous Substances Management (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
4.5	1. Sustainable Management of Wastes and Hazardous Substances by Promotion of Innovative Solutions through pilot projects and Inventorisation	1.1 Number projects/activities undertaken for creation of database /inventorisation /follow up for waste and hazardous materials	1	1. Better monitoring and compliance of various waste management rules as well as support to policy and decision making	1.1 Number of waste management rules covered for Database creation/ updation for the type of waste / hazardous substance taken up for inventorisation	2
					1.2 Number of Innovative technologies for environmentally sound management of wastes supported	2
		1.2 Number of innovative pilot projects undertaken for	1	2. Support to start ups for taking up of innovative projects to fulfil	2.1 Cumulative number of effective solutions for the management of	2

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
		sustainable management of waste and hazardous materials, remediation of contaminated sites and implementing solutions on circular economy		the objectives of waste to wealth and reduce, reuse and recycle, remediation of hazardous contaminated sites, and circular economy.	particular waste/hazardous substances (based on the type of wastes/hazardous substances taken under the projects)	
		1.3 Mapping of waste processing and disposal facilities including dump sites/landfills	1	3. Enabling decision making for effective waste and hazardous substances management	3.1 Data on management status of the concerned waste/hazardous substance including dump sites /landfills (No. of sites)	2
	2. Capacity Building, Awareness and Training for Sustainable Management of Wastes and Hazardous Substances	2.1 Setting and functioning of Project Management Unit	1	4. Better monitoring of implementation of sanctioned proposals and all activities under the Scheme	4.1 Number of projects processed under the scheme	3
		2.2 Number of centers for technical assistance on multilateral	4	5. Improved and better engagement and follow-up with	5.1 Number of technical documents	2

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23				OUTCOMES 2022-23		
2022-23	Output	Indicators	Targets 2022-23		Outcome	Indicators	Targets 2022-23
		conventions and connected policy matters supported			regard to multilateral obligations/conventions	reviewed, technical support provided, documents developed/vetted, trainings / workshops / seminars etcorganised	
		2.3 Number of activities/projects taken for capacity building, outreach and awareness generation through trainings/workshops/awareness campaigns /conferences, etc	2	6.	Improved capacity building, outreach and awareness through faster and wider dissemination of information and knowledge	6.1 Number of institutions/persons benefited	2

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
		2.4 Funding for creation and functioning of online portal for information and outreach about waste and hazardous material management	1	7. Improved outreach and awareness through faster and wider dissemination of information and knowledge	7.1 Number of stakeholders reached out	20
		2.5 Number of sanctioned emergency response centres funded	2	8. Better response during emergency due to chemical accidents	8.1 Number of persons who receive aid	100

5. Climate Change Action Plan (CCAP)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOME 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
30.00 (Tentative)	**a. National Carbonaceous Aerosol Program**					
	1. Source characterization and emissions	1.1 No. of Field campaign experiments for emission factor measurements: Crop residue burning	10	1. Measured field emission factors for crop residue burning	1.1 Digital data files on emission factor measurements (CO, SO2, NOX, PM2.5, chemical speciation) for crop residue burning	1
		1.2 No. of Field campaign experiments for emission factor measurements: Brick kilns	15		1.2 Availability of digital data files on emission factor measurements (CO, SO2, NOX, PM2.5, chemical speciation) for	Yes

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOME 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
					crop residue burning (Yes/No)	
		1.3 No. of Field campaign experiments for emission factor measurements: Residential and transport	20		1.3 Frequency of data updation on emission factor measurements (CO, SO2, NOX, PM2.5, chemical speciation) for crop residue burning (real-time / weekly / monthly / quarterly / annual / others	Annually
	Ambient observational network and source apportionment	2.1 No. of standard PMF implementations for 2019 measurements made across the network	11	2. Measured field emission factors for brick kilns	2.1 Digital data files on emission factor measurements (CO, SO2, NOX, PM2.5, chemical speciation) for brick kilns	1
		2.2 No. of assessments of seasonal variability in source contributions	44		2.2 Availability of digital data files on emission factor measurements (CO, SO2, NOX, PM2.5, chemical speciation) for	Yes

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOME 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
					brick kilns (Yes/No)	
		2.3 No. of PSCF maps for 2019 PM2.5 sources at all 11 sites - annually and seasonally	440		2.3 Frequency of data updation on emission factor measurements (CO, SO2, NOX, PM2.5, chemical speciation) for brick kilns (real-time / weekly / monthly / quarterly / annual others)	Annually
	3. Modelling of air quality and climate impacts	3.1 No. of Special Experiments-I (2019-20) with Regional Climate Models	2	3. Measured field emission factors for residential sources	3.1 Digital data files on emission factor measurements (CO, SO2, NOX, PM2.5, chemical speciation) for residential sector	1
		3.2 No. of Standard Experiments-II (1985-2015) with General Circulation Models	2		3.2 Availability of digital data files on emission factor measurements (CO, SO2, NOX, PM2.5, chemical speciation) for residential and	Yes

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOME 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
					transport sector (Yes/No)	
					3.3 Frequency of data updation on emission. (real-time /weekly / monthly / quarterly / annual / others)	Annually
				4. Identification and quantification of PM2.5 sources across 11 locations in India	4.1 Digital images of factor profiles and contributions at all 11 locations	1
				5. Identification of key sources to be managed during specific seasons, especially post-monsoon and winter	5.1 Digital images of source mix contributing to measured seasonal and NAAQS exceedance PM2.5	1
				6. Identification of regional geographical locations of sources contributing to PM2.5	6.1 Digital images of PSCF maps	1

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOME 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
				7. Special Experiments/ Simulations-I 2019-20 model output (3 RCMs)	7.1 Digital model output files on special Experiments/ Simulations-I (3 RCMs)	1
					7.2 Availability of digital data files on special Experiments / Simulations -I (3 RCMs) (Yes/No)	Yes
	Long Term Ecological Observatories Program					
	4. First season of data collected in each of six biogeographic zones of India (Western Himalaya, Eastern Himalaya, Northwest Arid Zone, Central India, Western Ghats, Island Ecosystems) for each research theme	4.1 Number of study sites with first season of biodiversity data collected	6	8. Baseline biodiversity data established for long term monitoring	8.1 Number of research themes with baseline data	9

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOME 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
	5. Biodiversity monitoring methodology for each theme integrated into a standard, replicable protocol that enables data compatibility across all themes	5.1 Number of sites implementing the standardized data collection methodology	6	9. Replicable methodology established for long term biodiversity monitoring	9.1 Number of research themes with clearly documented sampling protocols	9
	6. First season of weather data collected for each of six biogeographic zones	6.1 Number of sites with first season of weather data collected	6	10. Methodology contributes to larger scientific knowledge in the Indian context	10.1 Publication in a peer reviewed scientific publication	1
				11. Baseline weather data established for long term monitoring	11.1 Number of sites with baselines weather data	6
				12. Establishing baseline information for eventually informing the implementation of climate-	12.1 Number of sites with baseline information on biodiversity, soil, and weather data	6

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOME 2022-23		
2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
				related actions in the context of sustainable development		

6. Environment Protection, Management and Sustainable Development: National Adaptation Fund for Climate Change (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23				OUTCOMES 2022-23			
2022-23	**Output**		**Indicators**		**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
60	1.	Provision of funds to States for climate adaptation projects	1.1	Cumulative number of on-going projects funded under the scheme till current FY	29	1. Increased resilience and adaptive capacity of vulnerable areas and ecosystems against climate change impacts by financing adaptation activities of States / UTs	1.1 Cumulative % of projects meeting their outcome targets as per third party final evaluation report	2
			1.2	Cumulative number of projects completed under the scheme till current FY	8	2. Improved livelihood and source of income of vulnerable people in targeted areas	2.1 Number of people benefitted	150000
			1.3	No. of projects with more than three years of implementation period for which third party midterm evaluation initiated	11			
			1.4	No. of projects initiated for third party final evaluation	2			

7. Environment Protection, Management and Sustainable Development: National Mission on Himalayan Studies (NMHS) (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23	
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**
48	1. Strengthening Himalayan datasets thru PMU Data Centre with 3D Data Analysis and Visualization Lab (3D-DAVL)	1.1 Number of datasets created	1	1. Improved communication strategy for informed policy making in IHR	1.1 No. of new Patents filed in Indian Patent System
		1.2 Number of Staff Trainings conducted on 3D Visualization	3		1.2 No. of peer reviewed publications/ knowledge products (research papers; Books; Tec̲al reports/monographs; Training Manuals; Policy Briefs; Case Studies; Success Stories, et̲

FINANCIAL OUTLAY	OUTPUTS 2022-23				OUTCOMES 2022-23	
(Rs in Cr)						
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**		**Indicators**
		1.3 No. of Data Centre operational under CDMA with its regional nodes (Eastern and Western Himalaya)	1			1.3 No. of projects for which Data analysis & dissemination completed
		1.4 No. of 3D Analytics models for springs created	1			

FINANCIAL OUTLAY	OUTPUTS 2022-23			OUTCOMES 2022-23	
(Rs in Cr)					
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**
	2. Implementation of Demand driven action research projects in 7 priority thematic areas	2.1 Number of ongoing demand-driven projects implemented	22	2. Strengthening the natural capital for sustenance of IHR through time-bound studies	2.1 Number of Standard Operating Procedures (SOPs) for sustainable Natural Resource M
		2.2 Number of new demand-driven projects initiated	11		2.2 Number of field models established
	3. Creation of a cadre of Trained Researchers	3.1 Number of Himalayan Researchers trained	23	3. Strengthening R&D facilities by creating of	3.1 Number of Institutions strengthened in different States/ UTs of IHR

FINANCIAL OUTLAY	OUTPUTS 2022-23				OUTCOMES 2022-23	
(Rs in Cr)						
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**		**Indicators**
	on IHR issues	3.2 Number of PhD and Post-docs fellows trained	7	new Human Capital of Institutions in IHR		
	4. Spring rejuvenation using water sanctuary model and spring inventory database	4.1 Number of springs revival models created in all IHR states & UTs	35	4. Water security of Himalayan villages to supplement Jal Jeevan Mission		4.1 % change in water availability in springs of targeted Himalayan villages
		4.2 No. of spring inventory database created in all IHR	60			

FINANCIAL OUTLAY	OUTPUTS 2022-23			OUTCOMES 2022-23	
(Rs in Cr)					
2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators
		states & UTs			
		4.3 No. of states covered under development of spring revival models and spring inventory database	3		
	5. Implementing Nature Learning	5.1 Number of States/ UTs covered	3	5. Skill building and awareness	5.1 No. of Nature Learning Centres (NLCs) completed

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23				OUTCOMES 2022-23
2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators
	Centres (NLCs)/ State Government Projects (SGPs) in IHR states and UTs	under NLC/ SGP		creation thru NLCs and SGPs among local stakeholders across the IHR	
		5.2 No. of new State Government Projects (SGP) on science-based models initiated	2		5.2 No. of State Government Projects (SGP) on science based models completed

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23	
2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators
		5.3 No. of new Nature Learning Centres (NLCs) initiated	3		5.3 Cumulative number of total environmental managers benefitted under Nature Lear IHR States/UTs
					5.4 Cumulative number of total students benefitted under Nature Learning Centres/State
	6. Establishment of end-to-end business	6.1 Number of States covered	2	6. Enhanced livelihood security and	6.1 Number of Beneficiaries - Villages eco-entrepreneurs

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23				OUTCOMES 2022-23	
2022-23	Output	Indicators	Targets 2022-23	Outcome		Indicators
	models to enhance livelihood security and quality of life of local people across the Himalayan States and UTs	6.2 Number of new business models established with SOPs	10	quality of life of local people through establishment of end- to-end business models across the Himalayan States and UTs		6.2 Number of Beneficiaries - farmers
		6.3 No. of SOPs developed on NTFPs / underutilized produces/new livelihood options	3			6.3 Number of Beneficiaries - SHGs
		6.4 No. of New micro enterprises initiated	20			

FINANCIAL OUTLAY	OUTPUTS 2022-23					OUTCOMES 2022-23
(Rs in Cr)						
2022-23	Output	Indicators	Targets 2022-23	Outcome		Indicators
		6.5 No. of Green energy enterprises business models established with SOPs across the IHR	2			
	7. Mountain Biodiversity network with field models on recovery of threatened	7.1 No. of states in which mountain biodiversity data network established	2	7.	Mountain Biodiversity network with field models on recovery of threatened habitats in	7.1 No. of fully functional MBDIS in IHR

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23				OUTCOMES 2022-23	
2022-23	Output	Indicators	Targets 2022-23	Outcome		Indicators
	habitats in different ecosystems	Field based conservation models recorded under Mountain Biodiversity Database & Information System (MBDIS)	3	different ecosystems		
	8. Conduct Green Skill Development and capacity building program for	8.1 No. of training/skill building programmes conducted	35	8. Capacity building through Green Skill Development program for		8.1 Number of beneficiaries/stakeholders trained

FINANCIAL OUTLAY	OUTPUTS 2022-23			OUTCOMES 2022-23	
(Rs in Cr)					
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**
	local people of IHR states			local people of IHR states	
	9. Conducting state wise follow up meetings for upscaling of mission outcomes	9.1 Number of joint meetings/workshops organized for all 11 IHR states and 2 UTs	2	9. Organization of workshops for upscaling of the mission outcome and creation of data sharing arrangements across the	9.1 No. of interactive forum at National/ regional levels established

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23	
2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators
				IHR	

8. Decision support System for Environmental Awareness, Policy, Planning and Outcomes Evaluation: Environmental Education, Awareness and Training (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
55	1. Establishing Eco-club in schools/colleges for adopting environmentally sustainable measures	1.1 Number of schools supported under Eco-club (in lakh)	1	1. Sensitization of students to issues related to environment through Eco-club	1.1 Number of students participated in the programmes like environment days, cleanliness drives etc (in lakh)	40
		1.2 Number of colleges supported under Eco-club (in lakh)	0.008			
		1.3 Total number of events conducted at National and State level to share the experience of State Nodal Agency showcasing of innovative and active NGC projects	12			
		1.4 No. of ecoclubs onboarded on MIS portal	5000[1]			
	2. Nature camps shall be organised	2.1 Number of camps supported	200			

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[1]*subject to launching of MIS portal and resolution of administrative/ technical issues in this regard.*

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
		2.2 Number of students participating in nature-based activities/bird watching/green pledges/group discussion in the nature camps	10000			

9. Decision support System for Environmental Awareness, Policy, Planning and Outcomes Evaluation: Environmental Information Systems (ENVIS) (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
23.5	1. Development of ENVIS Knowledge products viz. newsletters, books, theme based special	1.1 Number of information/ knowledge products(i.e. special publications, newsletters, information kits and documentaries)	500	1. Increase in usage of environmental information/ database in Schools/	1.1 Number of environmental information products, kits and maps downloaded	1000000

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
	publications, e-books, e-bulletins, booklets, educational kits, etc.	developed during the year		Colleges/ Universities/ Researchers/ Central Govt./ State Govt. and improvement in the awareness of general public with respect to the environment	by the users over the year	
		1.2 Number of thematic maps developed during the year	300		1.2 Percentage change in development of thematic maps YoY	10
		1.3 Number of Mobile Apps developed during the year	8		1.3 Number of downloads of mobile apps from the websites of individual ENVIS Centres by all stakeholders - students, researchers, policy makers, general public etc over the year	10,000
		1.4 Number of ENVIS Hubs/Resource Partners (RPs) established during the year	2		1.4 Number of citations of the knowledge products in journals and policy papers	500

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23				OUTCOMES 2022-23		
2022-23	Output	Indicators		Targets 2022-23	Outcome	Indicators	Targets 2022-23
	2. Indian State-level Basic Environmental Information Database (ISBEID): Development and analysis of the time series data of 17 modules of ISBEID	2.1	No. of analytical reports for policy implications based on time series descriptive /numerical environmental information database for district level	25	2. Availability of MIS & GIS database for decision making and policy formulation	2.1 Percentage change in analytical reports generated from the MIS / GIS database by ENVIS Hubs YoY	5
		2.2	No. of analytical reports for policy implications based on time series descriptive /numerical environmental information database for State level	15			
	3. Green Skill Development Programme: To skill youth in various green skills such as Pollution Monitoring (Air/Water/Noise), Effluent Treatment Plant (ETP) Operation, Waste Management,	3.1	Number of youth skilled under various green skilling programmes in the FY	540	3. Enhancing skills of youth in environmental activities and creating opportunities for them to get gainfully employed/self-employed	3.1 Number of skilled youths employed after completing the certificate programmes	216
		3.2	Number of courses conducted in the FY	27			

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
	Valuation of Ecosystem Services, Management of Forest Fires, Water Budgeting & Auditing, etc.					
	4. Preparation of State of Environment Report (SoER)/SoE Atlases and State-wise availability of the status of environment, to facilitate policy decisions and suitable interventions	4.1 Number of State of Environment Report / State of Environment Atlases published during the year	5	4. Status Report of Environment in a particular State/UT	4.1 Number of State/UTs for which State of Environment Report / State of Environment Atlases are available in the 15th Finance Commission Period as on 31.03.2023.	7

10. Decision support System for Environmental Awareness, Policy, Planning and Outcomes Evaluation: R and D for Conservation and Development (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
4.75	1. Funding R&D projects to generate data for natural resource management, conservation, regeneration of degraded areas, cleaner technologies for resource and energy conservation, conservation of biodiversity; capacity increase in the country in terms of Equipment and scientific man power	1.1 Total no. of new projects funded in the thematic areas	5	1. Knowledge sharing of R&D projects studies finding	1.1 Number of publications in peer-reviewed journals/ peer-reviewed Books/patents filed/ technologies filed	4

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
	2. To build indigenous capacities and strengthen scientific manpower in multidisciplinary and emerging areas of the environment and ecology and to promote development of infrastructure facilities, where necessary, for undertaking environmental research	2.1 No. of projects funded to build capacity related to Scientific manpower /Equipment/ training for environmental protection and conservation	2	2. Recommendations / findings of completed projects integrated with the Ministry's ongoing Programmes and Schemes	2.1 Number of technology developed from R&D-Scheme implemented by the concerned Ministries/ Departments/ Public Institutions	1
	3. To find practical solutions to problems of environmental protection and	3.1 Total number of projects completed	2			

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
	management (eg.Eco-regeneration of degraded areas, management of wastes, bioremediation of contaminated sites, conservation of ecologically sensitive areas and landscapes, etc.)	3.2 Cumulative no. of reports of the completed R&D projects published	2			
		3.3 Documentation of no. of research publications	1			
	4. To generate, document and analyse information for taking policy decisions relating to environment and natural resources, and Action Plans of GOI, including preparedness for international negotiations on Conventions, Treaties, Protocols, Laws etc	4.1 No. of papers presented in workshop/ seminars, etc	1			

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
	5. To support basic research which leads to applied research in the areas of environment and ecology with the aim of sustainable development and conservation of natural resources	5.1 No of M.Phils/ PhDs produced	2			

11. Control of Pollution

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
460	1. Assistance for abatement of pollution to Central Pollution Control Board (CPCB), State Po	1.1 Number of SPCBs assisted with funding for laboratory development, pollution assessment, R & D etc.	28	1. Enhanced pollution abatement in the States/UTs	1.1 No. of States/UTs developed online emission/effluent monitoring systems	28

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
	llution Control Boards and Pollution Control Committees by providing funding	1.2 Number of PCCs assisted with funding for laboratory development, pollution assessment, R & D etc.	8		1.2 Laboratory facilities developed by SPCBs	28
		1.3 Laboratory facilities developed at CPCB, Pollution Assessment and R& D studies carried out	3		1.3 Pollution Assessment studies and R& D studies carried out by CPCB/SPCBs/ PCCs	20
	2. Funding for augmentation of National Air Quality Monitoring Programme (NAMP) stations under National Clean Air programme (NCAP)	2.1 No. of new NAMP stations added during the year	350	2. Enhanced / Strengthening of air quality monitoring network	2.1 Cumulative no. of manual operating NAMP stations functional	1168
	3. Monitoring of PM2.5 in uncovered locations under NCAP	3.1 No. of stations added for Monitoring of PM2.5 during the year	396	3. Strengthening of air quality monitoring network and Improved network for monitoring of additional pollutants	3.1 Cumulative no. of functional PM2.5 monitoring operating stations	709

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23				OUTCOMES 2022-23			
2022-23		**Output**	**Indicators**	**Targets 2022-23**		**Outcome**	**Indicators**	**Targets 2022-23**
	4.	Source Apportionment Studies (SAS) for non-attainment cities under NCAP	4.1 Number of Source Apportionment studies initiated in the FY	54	4.	Prioritization of actions based on techno-economic feasibility through source apportionment studies	4.1 Number of Source Apportionment studies completed	40
			4.2 No. of States /UTs covered under Source Apportionment studies	16			4.2 No. of city action plans reviewed based on the scientific inputs received through Source Apportionment Studies	30
	5.	Preparation and implementation of micro action plans for cities under NCAP	5.1 No. of cities to have Micro action plans	132	5.	Better planning for air quality management by local bodies, Central & State Government	5.1 Cumulative number of cities to have Micro action plans	132
	6.	Assistance for operation and Maintenance (O & M) of NAMP stations to SPCBs/PCCs	6.1 No. of NAMP stations assisted for O&M	350	6.	Wider and better assessment of Air Quality	6.1 Air Quality monitoring data availability in number of locations / cities	350

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
	7. Assistance for O & M of CAAQMS in cities	7.1 No. of Cities Covered under CAAQMS	4	7. Wider and better assessment of Ambient Air Quality	7.1 No. of days CAAQMS stations operational / AQI generated	29
	8. Assistance for monitoring of water quality of aquatic resources under National Water Monitoring programme (NWMP) as well as stations assisted for O & M	8.1 No. of new NWMP stations added in the FY	200	8. Enhancement / Strengthening of Water Quality Monitoring Network in the Country	8.1 Number of functional NWMP stations	4494
		8.2 No. of States /UTs Assisted for Water Quality Monitoring	34		8.2 % compliance w.r.t. Primary Water Quality Criteria for outdoor Bathing	100
		8.3 No. of Rivers / Water Bodies Monitored	2510			
		8.4 No. of NWMP stations assisted for O&M	4294			
	9. Assistance for establishment of new noise monitoring stations in million plus cities under	9.1 No. of new noise monitoring stations added in million plus cities in the FY	52	9. Wider and better assessment of Ambient Noise which help	9.1 Cumulative no. of functional NANMN operating stations	104

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
	National Ambient Noise Monitoring Network (NANMN)as well as stations assisted for O & M	9.2 No. of noise monitoring stations assisted for O & M	35	in improvement in noise quality		
		9.3 No. of States /UTs Assisted for Noise Monitoring	14			
	10. Result oriented time bound R&D studies for control and abatement of pollution specifically air and water pollution	10.1 No. of R&D studies initiated during the year	35	10. Enhance R&D and encouraging the state of art technologies for mitigation of air and water pollution	10.1 Cumulative number of R&D studies initiated	41
	11. Funding for Outreach Programme including capacity building and awareness of all stakeholders	11.1 No. of stakeholder consultations/ meetings / campaigns / field surveys held during the year	23	11. Enhancing the awareness and capacity building programme.	11.1 Cumulative number of the awareness and capacity building programme.	28

12. National Mission for a Green India (CSS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOME 2022-23		
2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
361.69	**Green India Mission – National Afforestation Programme**					
	1. First Year Activities: advance work for afforestation which comprises of soil moisture conservation work, raising of nurseries and preparation of site for plantation	1.1 Area (in ha) covered for advance work	20,000	1. Increase in forest/tree cover on forest/non-forest lands	1.1 Area (in ha) covered for plantation to increase forest cover	19,600
	2. Second Year Activities: creation/plantation of saplings	2.1 Area (in ha) covered for plantation	49,000	2. Improvement in quality of forest cover	2.1 Area (in ha) covered for plantation to improve quality of forest cover	29,400
	3. Third to fifth year Activities: Maintenance of planted saplings	3.1 Area (in ha) covered for maintenance of planted saplings	67,000	3. Increased forest-based livelihood incomes of households	3.1 No. of Household reported diversification of income	5,71,628
					3.2 No. of person-days of employment generated	40,00,000
	Forest Fire Prevention and Management					

	1.	Creation and maintenance of fire lines including control burning	1.1	Length of fire lines created and maintained (in km) during the year	32,000	1. Decrease in number of forest fire incidences	1.1 Percentage decrease in forest fire incidences	1.5
	2.	Procurement of firefighting equipments	2.1	No. of firefighting equipment's procured during the year	320	2. Decrease in forest areas affected by forest fire	2.1 Percentage decrease in estimated area affected due to forest fire	1.5
	3.	Procurement/hiring of field vehicles for transportation of resources	3.1	No. of field vehicles to be procured/hired for transportation of resources	8	3. Capacity development for forest fire fighting	3.1 No. of field forest staff and members of JFMCs / villages trained	100
	4.	Water harvesting structure	4.1	Nos. of Water harvesting structures to be constructed	120	4. Developed knowledge on impacts and dynamics of forest fire	4.1 No. of peer reviewed publications on impacts and dynamics of forest fire	2
	5.	Engagement Fire watchers	5.1	Man days of Fire watchers engaged	5,12,000			
	6.	Training and pre- fire season workshops	6.1	No. of Training and pre- fire season workshops to be organised	480			
	7.	Incentivizing villages / Joint Forest Management Committees for protection against forest fire	7.1	No. of villages / JFMCs to be incentivized for protection against forest fire	320			

13. Conservation of Natural Resources and Ecosystems (CSS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOME 2022-23		
2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
58.5	**Conservation of Aquatic Ecosystems**					
	1. Conservation and Management activities for wetlands (includes lakes) such as survey and demarcation, catchment area treatment, pollution abatement, strengthening of bund, fencing, weed control, fisheries development, education & awareness etc.	1.1 Number of wetlands where conservation and management activities are undertaken	6	1. Improved Conservation & Management of Wetlands	1.1 Tentative Area of wetlands covered (in ha) under conservation activities	Target not amenable[2]
				2. Improved Water Quality of Wetlands	2.1 Percentage change in Biological Oxygen Demand (BOD) level in the Wetlands covered under the scheme	Target not amenable[2]
					2.2 Percentage change in Chemical Oxygen Demand (COD) level in the Wetlands covered under the scheme	Target not amenable[2]

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[2]*Cannot be specified as it is dependent on the IMPs and PPRs to be submitted by the State Governments*

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOME 2022-23		
2022-23	**Output**	**Indicators**	**Targets 2022-23**	**Outcome**	**Indicators**	**Targets 2022-23**
	2. Workshops for wetland Managers for Conservation & Management of wetlands	2.1 Number of Regional Workshops for wetland Managers for Conservation & Management of wetlands organized	4	3. Capacity building of wetland managers	3.1 No. of participants in the trainings / workshops on wetland management	80
	3. Evaluation & monitoring of on-going sanctioned projects of wetlands	3.1 No. of projects for which evaluation study conducted	2	4. Promoted research and monitoring on multifaceted areas of wetlands	4.1 Cumulative no. of periodic review reports of IMPs of wetlands available in the public domain	2
	4. To develop and maintain an international network of wetlands for the conservation of global biological diversity and sustaining human life through the maintenance of their ecosystem components, processes and benefits	4.1 No. of new wetlands designated as Ramsar sites	2			
	b. Biodiversity Conservation					
	1. Sanctioning of Five-Year period	1.1 No. of Five-Year Period Integrated	18	1. Conservation of Biodiversity by		100

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23				OUTCOME 2022-23			
2022-23		Output		Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
		Integrated Management Action Plans of Biosphere Reserves		Management Action Plans of Biosphere Reserves		enhancing the socio-economic and livelihood issues of the people living in BRs.	1.1 No. of person-days of employment generated.	
	2.	Designation of new Biosphere Reserves (BR) and inclusion in the World Network of Biosphere Reserves (WNBR) of Man and the Biosphere (MAB) Programme of UNESCO	2.1	Number of new BRs to be designated	01			
			2.2	Inclusion of new BRs in the WNBR	01			
	3.	Organisation of Workshops/seminars and stakeholders meeting etc.	3.1	Number of meetings / workshops / seminars to be held for BR managers	02	2. Promoted research and monitoring on multifaceted areas	2.1 Cumulative no. of reports of research studies on sustainable use of threatened resources and threatened species and ecosystems published	4
			3.2	Number of international meetings/workshops/ seminars to be held	01		2.2 Cumulative no. of periodic review reports of BRs available in the public domain	6

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOME 2022-23		
2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
	4. Promoting and providing opportunity for ecological research and monitoring	4.1 No. of Research Projects sanctioned in priority areas identified by Experts	2	3. Enhanced rehabilitation of landscapes of threatened species and ecosystems	3.1 Cumulative % of threatened plants and animal's species rehabilitated	2
		4.2 No. of approved programme for which evaluation study conducted	2			
		4.3 Number of BR's Periodic Review Reports to be submitted to MAB-UNESCO	2			
	5. Designation of a site as BRs	5.1 Number of new BRs to be designated	1	4. Enhanced communication and networking systems in the BR	4.1 Cumulative no. of villages reached access of communication and networking systems in buffer and transition zones of BRs in the country	4