Government of India Ministry of Environment, Forest & Climate Change (EI Division)

.

Factsheet of 2019-20 (as on 31st March 2020) on Activities of ENVIS Resource Partner-NBRI

1.	Name of Host Organization:	CSIR-National Botanical Research Institute (NBRI), Lucknow				
2.	Assigned Subject Area:	Plants and Pollution				
3.	Date/Month/Year of establishment of ENVIS Centre:	2005				
4.	Name and designation of ENVIS	Dr. Vivek Srivastava				
	Coordinator (2018-19):	Principal Scientist CSIR-National Botanical Research Institute (NBRI),				
		Rana Pratap Marg, Lucknow-226001				
5.	Has the Host Organization constituted	Yes, the host organization constituted an Advisory Committee for				
	an Advisory Committee for guiding the	guiding the activities of the Centre.				
	activities of the Centre?					
		1. Dr. U.C. Lavania, INSA Fellow (Chairman)				
	Composition of the Advisory	2. Dr. D.K. Upreti, Emeritus Scientist, CSIR NBRI (Co-				
	Committee:	Chairman)				
		3. Prof. R.P. Singh, B.B.R. Ambedkar University, Lucknow				
	(Select YES or NO: if YES kindly fill the	4. Dr. S. Lavania, HOD, Dept. of Botany, University of				
	right column space; if NO kindly leave it	Lucknow, Lucknow				
	blank)	5. Dr. Manoj Semwal, Senior Scientist, CSIR CIMAP				
		6. Dr. P. A. Shirke, Senior Principal Sci., CSIR NBRI				
	o YES √	7. Dr. R. D. Tripathi, Emeritus Sci. CSIR				
	○ NO	8. Dr. S. K. Tewari, Senior Principal Scientist				
		9. Dr. Vivek Srivastava, Coordinator, ENVIS				

Name	Position	Qualification	Joining	Joining	2019-20		
	held	and Experience	Date in ENVIS Centre	Date in current position	Leaving Date (if applicable)		ents drawi Rs.) Annual
Mr. Sunil Tripathi	Programme Officer	M.Sc (Botany), ADCA, Ad.PGD in Bioinformatics, PG Diploma in IPRs	22/03/2018	22/03/2018		42,446	5,09,352
Mr. Diwakar Saini	Information Officer	BSc.(PCM),Master of Computer Applications (MCA), ADCA Diploma One Year from SSI, GIS three days Training (MoEF&CC) With BISAG Gandhi Nagar, Gujrat, ArcGis Two days training with ESRI at NBRI Lucknow	03/07/2017	03/07/2017		35,452	4,25,424
Mrs. Amrita Awasthi	IT Officer	MSc.(Applied Microbiology & Biotechnology)	04/09/2018	04/09/2018	04/12/2019	28,672	3,44,064
Mrs. Vineeta Yadav	Data Entry Operator	BSc.(PCM),Master of Computer Applications (MCA), Polytechnic Diploma in 6 months, Typing Certificate in 3 months	18/12/2017	18/12/2017	17/12/2019	13,310	1,59,720

7.	Mandate of the CSIR-NBRI	Mandate of the ENVIS RP-NBRI
	To undertake basic and applied R&D programmes in several strategically important areas of plant sciences.	systematically collect, compile and disseminate data on Plants and Pollution, which will be of immense use to several research organizations, town planners, policy makers, teachers and other stakeholders.

8. Databases:

8.1. Catalogue of Non-numeric Databases compiled by the ENVIS-RP-NBRI till date:

Sl. No.	Name of	Description	Data type	Status of Updation/	Source(g) of	Online
SI. NO.	Database	(in brief)	Data type (descriptive/ graphical/ geospatial/ etc.)	Periodicity/ Data Points Compiled (including date/month/yr of last data point)	data	Availability (Whether uploaded on ENVIS Website)
1.	Acid rain	 Introduction of acid rain, Causes and sources of acid rain, Chemistry of acid rain Effects of acid rain on soil, vegetation, plants, microorganisms and water bodies, References. 	Descriptive with figure showing acidic effect of acid rain on plants.	Date of upload: 30/3/2013 (Monthly) Date of last update: 20/03/2020	Search engines of internet & different scientific publications	Uploaded on website
2.	Fluoride	 Introduction of Fluoride, Injury symptoms, Indicators, coniferous tree, deciduous trees References. 	Descriptive with image of effect of Fluoride on coniferous tree.	Date of upload: 9/4/2013 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
3.	Bioremediation	 Introduction, Phytoremediation, Phytoextraction Hyperaccumulator species Phytodegradation/Biodegradati on Rhyzofilteration, Phytovolatilization, References 	Descriptive with table of metal hyper accumulator species and their bioaccumulation potential.	Date of upload: 11/4/2013 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
4.	Nanoparticle	 Introduction, Usages and advantages of Nanoparticles. References. 	Descriptive with images of Nanoparticles and graphical representation of synthesis of Nanoparticles	Date of upload: 17/4/2013 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
5.	Biogas	 Introduction, Production, Gas formation, Composition, biogas upgrading. First biogas plant References. 	Descriptive Graphical with images of Biogas formation plant and process.	Date of upload: 24/5/2013 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
6.	Green House Gases	 Introduction, Green house gases, Impact of global warming, agriculture, forest References. 	Descriptive Graphical with image of green house gases in normal natural level.	Date of upload: 27/5/2013 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
7.	Metal/ Metalloid	• Introduction,	Descriptive Graphical with	Date of upload: 27/9/2013	As above	Uploaded on website

Sl. No.	Name of Database	Description (in brief)	Data type (descriptive/ graphical/ geospatial/ etc.)	Status of Updation/ Periodicity/ Data Points Compiled (including date/month/yr of last data point)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)
		Sources,BioindicatorsAccumulatorsReferences	table of hyper accumulator plants for Metal/Metalloid	(Monthly) Date of last update: 20/03/2020		
8.	Nitrogen oxides	 Introduction, sources, Effects, Indicators, Factors effecting sensitivity, References 	Descriptive with images of some crop species such as bean, leak and pea are regarded as very sensitive to nitrogen oxides.	Date of upload: 23/10/2013 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
9.	Smog	 Introduction, causes of smog, Effects on plants, Ozone diminished photosynthesis Economic hardship Detection of smog. references 	Descriptive with images of effect of ozone on plant leaf surface	Date of upload: 21/11/2013 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
10.	Indoor air pollutants	 Indoor air pollutants Simple steps to remove indoor air pollutants. Some example of indoor References 	Descriptive Graphical with images of sources of indoor air pollutants	Date of upload: 6/12/2013 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
11.	Mercury (Hg) in the environment	 Hg in the environment Selenium Applied to Reduce Mercury Accumulation in Rice Mercury Accumulator plants Hg accumulates in the food chain, Movement of metals within plant roots, Hg effects on plants References 	Descriptive with images of Mercury Pollution, Selenium Successfully Applied to Reduce Mercury Accumulation in Rice, Hg accumulator, Hg in food chain.	Date of upload: 8/6/2014 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
12.	Cadmium (Cd) and plants	 Introduction, Effects of Cd exposure to plants at different levels in photosynthetic machinery Effect of Cd on ROS generation, Cd effect on plant growth and enzymes, Long distance transport of heavy metals and references 	Descriptive with image of effect of cadmium on plant, Cd effect on plant growth, long-distance transport of heavy metals, list of sensitive plants of cadmium contamination and accumulation tendency for cadmium in various crop samples.	Date of upload: 8/7/2014 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
13.	Lead (Pb) effects on plants	 Lead effects on Plants Source of lead pollution, Effects of lead, enzymes activities, 	Descriptive with representation of sources of lead in environment, lead	Date of upload: 19/8/2014 (Monthly)	As above	Uploaded on website

Sl. No.	Name of Database	Description (in brief)	Data type (descriptive/ graphical/ geospatial/ etc.)	Status of Updation/ Periodicity/ Data Points Compiled (including date/month/yr of last data point)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)
		 Lead tolerance in plants, Photosynthesis and references 	toxicity in plants, mechanism of tolerance and accumulation of metal and effect of lead on plant physiology	Date of last update: 20/03/2020		
14.	Chromium (Cr)	 Introduction of chromium, Physiological responses of plants to chromium, Effect of chromium on plant physiology, Nutritional and toxic effect of chromium, Toxicity of chromium to plants, Chromium in the environment and references 	Descriptive with image of chromium plant interaction and relationship, Cr in soil and water, Lemna plants growth under Cr (VI) induced stress, Reduction of Cr (VI) to Cr (III) in plant cells and medium, Enhancing phytoremediation of chromium-stressed soils through plant-growth-promoting bacteria	Date of upload: 5/12/2014 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
15.	Lindane insecticide	 Introduction, Technical lindane, Enzymatic basis of lindane degradation and in microorganisms, Rhizoremediation of lindane, Mode of dose transfer of lindane, Environmental fate and references 	Descriptive with chemical properties of Lindane, images of insects treated by lindane and mode of dose transfer of Lindane	Date of upload: 16/12/2014 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
16.	Arsenic	 Introduction of As, Arsenic Chemistry, Arsenic contamination, Toxicity of Arsenic and Environmental transport and distribution References 	Descriptive with images of Skin diseases caused by Arsenic toxicity, As standards of WHO, EU, US EPA, table of countries contaminated with As	Date of upload: 16/12/2014 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
17.	Endosulfan	 Present scenario of pesticides Phytoremediation Remediation of Endosulfan Phytoremediation Using Selected Plant Species Rhizoremediation of endosulfan Degradation pathway in plants Environmental Effects Precautions References 	Descriptive with images of chemical structure of endosulfanand transport and chemical degradation of endosulfan	Date of upload: 17/12/2014 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
18.	Sulphur dioxide (SO ₂)	 Introduction of SO₂, injury symptoms, indicators, 	Descriptive with images of plant's leaf injured by exposure of SO ₂	Date of upload: 23/12/2014 (Monthly)	As above	Uploaded on website

Sl. No.	Name of Database	Description (in brief)	Data type (descriptive/ graphical/ geospatial/ etc.)	Status of Updation/ Periodicity/ Data Points Compiled (including date/month/yr of last data point)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)
		 Coniferous tree, Deciduous trees and shrubs, Bryophytes and Fungi showing injury symptoms, and factor effecting sensitivity Reference 	and table showing plant species sensitive to SO ₂	Date of last update: 20/03/2020		
19.	Nickel	 Introduction Sources of Nickel Inventory of nickel in various global environmentl Nickel is delivered into the environment by several pathways Nickel toxicity in Plants Nickel deficiency Nickel distribution in plant organs Toxic Effects of Ni on Plants References 	Descriptive with image of Nickel toxicity in Plants, Severe leaflet tip necrosis due to nickel deficiency in nitrogen-fixing plants, Pecan—a hydrophilic species: Ni enables normal spring growth upon application to foliage soon after bud break, Plants showing Nickel treatment, Sugar beet plant showing Nickel toxicity	Date of upload: 5/5/2015 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
20.	Zinc	 Introduction Importance of Zinc in Plant Growth Role of Zinc in the Crop Crops that respond to zinc Zinc Deficiency in Crop Symptoms of Zinc deficiency include following symptoms Soil Conditions that can result in Zinc deficiency include Soil conditions and the need for Zinc fertilizers Diagnosing Zinc Disorders References 	Descriptive with image of Role of Zinc in the Crop, Sufficiency levels of Zinc for major agronomic crops, vegetable, and fruits grow in Minnesota, Zinc Deficiency in Crop, Symptoms of Zinc deficiency, Soil Conditions that can result in Zinc deficiency, Soil conditions and the need for Zinc fertilizers, Diagnosing Zinc Disorders	Date of upload: 8/5/2015 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
21.	Copper	 Introduction Copper is essential for many plant functions. Factors Affecting Availability High Response Crops Copper toxicity 	Descriptive with image of Copper toxicity, Effects on plants growth, Using Copper in a	Date of upload: 20/4/2015 (Monthly) Date of last update:	As above	Uploaded on website

Sl. No.	Name of Database	Description (in brief)	Data type (descriptive/ graphical/ geospatial/ etc.)	Status of Updation/ Periodicity/ Data Points Compiled (including	Source(s) of data	Online Availability (Whether uploaded on
				date/month/yr of last data point)		ENVIS Website)
		 Copper sulphate Effects on plants growth Using Copper in a Fertilizer Program Copper deficiency Copper in the environment References 	Fertilizer Program, Copper deficiency, Copper in the environment	20/03/2020		website)
22.	Iron	 Introduction Iron and Plant Distribution of Iron in Plants Iron Toxicity Cause of Iron Toxicity and Prevention Symptoms of Iron deficiency Treatment options for iron deficiency in trees and shrubs Iron chlorosis Causes of Iron chlorosis Prevention and control of Iron chlorosis Susceptibility of plants to Iron deficiency Several following methods are available for treating Iron deficiency Advantages and disadvantages of Iron chlorosis control methods Fe chelation and long distance Fe transport Transcriptional changes in response to Fe deficiency in specific root layers References 	Descriptive with image of Iron transport in rice, Model of acquisition and transport of iron in plants with an emphasis on changes of the iron-binding, Iron toxicity on marigold, Symptoms of Iron deficiency, Iron chlorosis, Fe chelation and long distance Fe transport, Transcriptional changes in response to Fe deficiency in specific root layers,	Date of upload: 20/5/2015 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
23.	Neonicotinoids	 Introduction Neonicotinoids contaminated ecosystem Agricultural performance of Neonicotinamide Seed Coating Importance of bee in agriculture Neonicotinoid and Pollinators Evidence for impacts on nontarget organisms Environmental concerns 	Descriptive with image of Neonicotinoids contaminated ecosystem, Agricultural performance of Neonicotinamide, Seed Coating, Importance of bee in agriculture, Neonicotinoid and Pollinators, Environmental concerns	Date of upload: 5/12/2016 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
24.	Organophosph ate	 Introduction Types of Organophosphorus compounds or organophosphates (OPs) group Mechanisms of toxicity Impact on Crop and Distribution pathways Organophosphorus pesticides are mainly used in crop protection OPs in the environment References 	Descriptive with image of Corn uptake and insecticide use in field, Mechanism of Ops Toxicity, Root maggots are less than 1/3 of an inch and tunnel through the crop	Date of upload: 12/1/2016 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website

Sl. No.	Name of	Description	Data type	Status of Updation/	Source(s) of	Online
	Database	(in brief)	(descriptive/ graphical/ geospatial/ etc.)	Periodicity/ Data Points Compiled (including date/month/yr of last data point)	data	Availability (Whether uploaded on ENVIS Website)
			roots, Consumption of organophosphate pesticides by various crops, Distribution Pathway for agricultural pesticides, Organophosphoru s pesticides are mainly used in crop protection,			
25.	Carbofurans	Introduction Carbofuran Application Carbofuran Mode of action Cabofuran pesticides use in Agricultural field Safety for the environment References	Descriptive with image of sprays carbofuran on a tree, Carbofuran Application, Carbofuran Mode of action, Degradation pathway of Carbofuran, Carbofuran pesticides use in Agricultural field, Carbofuran in the environment	Date of upload: 15/12/2016 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
26.	Wasteland management through plants	Waste Land Classification of waste land Categories of Wastelands in India Causes of land degradation Choice of Plant Species for Waste land Managemen Plant species used for remediation Mining/Industrial waste land Wasteland Development Schemes Major Ongoing Project Objectives Activities: The major activities taken up under the scheme Modified strategies and suggestions References	Descriptive with image of Waste Land Management through Plant, Classification of waste land, Categories of Wastelands in India, Causes of land degradation, Plant species used for remediation, Some more plant species used,	Date of upload: 22/9/2015 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
27.	Role of plants in CO ₂ sequestration	 Introduction Terrestrial Geologic Participation of Plant Carbon sequestered into the soil Forests Are Truly a Green Way to Reduce CO2 References 	Descriptive with image of Role of Plants in CO ₂ Sequestration, Possible functional role of root exudate	Date of upload: 11/11/2015 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website

Sl. No.	Name of Database	Description (in brief)	Data type (descriptive/	Status of Updation/ Periodicity/ Data	Source(s) of data	Online Availability
	Database	(in oneg)	graphical/ geospatial/ etc.)	Points Compiled (including date/month/yr of	unu	(Whether uploaded on ENVIS Website)
			components in the rhizosphere ¹⁰ , Participation of Plant, n Carbon sequestered into the soil, Forests Are Truly a Green Way to Reduce CO ₂	last data point)		website)
28.	Climate change- CO ₂ enrichment	 Introduction Five common methods of generating extra amounts of CO2 High CO2 Makes Crops Less Nutritious Quality and Quantity Climate change affected CO2 level in the environment Project Publications Related to CO2 enrichment References 	Descriptive with image of effect of elevated CO ₂ enrichment, Maize and wheat yield show climate impact, High CO ₂ Makes Crops Less Nutritious, Climate change affected CO ₂ level in the environment, what we should consider to crop with climate change	Date of upload: 7/10/2015 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
29.	Climate change- Methane	 Introduction Source Methane Emission CH4 production, transport and consumption Methane impacts on Climate change References 	Descriptive with image of estimated sources of methane, Microbial turnover of methane and transport pathways of gases in wetlands, CH ₄ production, transport and consumption in the rice rhizosphere. Reactions within, Methane impacts on Climate change	Date of upload: 16/10/2015 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
30.	Ozone	 Introduction, Injury symptoms, Yield loss caused by O₃ Indicator of Ozone, Herbs/Grasses/Crops Coniferous tree 	Descriptive with images of injury symptom of ozone on plants	Date of upload: 26/12/2017 (Monthly) Date of last update: 20/03/2020	Search engines like: Pub med, Science Direct, Google	Uploaded on website

Sl. No.	Name of Database	Description (in brief)	Data type (descriptive/ graphical/ geospatial/ etc.)	Status of Updation/ Periodicity/ Data Points Compiled (including date/month/yr of last data point)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)
		 Deciduous trees and shrubs Bryophytes References 			Scholar etc. Magazines like: Down to earth, The pollution	
31.	Nitrogen fertilizer	 Introduction Properties of Nitrogen fertilizers Uses Nitrogen fixing cover crops Nitrogen transformation in the soil Enhancing fertilizer efficiency Eco friendly liquid formulation for nitrogen fertilizer protection Benefits References 	Descriptive with images of Graph of Nitrogen fertilizer in environment of US, Image of Nitrogen fixing cover crops, Nitrogen cycle, Graph of Nitrogen fertilizer in winter wheat	Date of upload: 10/6/2017 (Monthly) Date of last update: 20/03/2020	As above	Uploaded on website
32.		 Introduction, Uses of Aromatic hydrocarbons, Symptoms and Signs of Hydrocarbon toxicity, Polycyclic aromatic hydrocarbons (PAHs), References 	Descriptive with images Symptoms and Signs of Hydrocarbon toxicity and Polycyclic aromatic hydrocarbons (PAHs)	Date of upload: 26/12/2018 (Monthly) Date of last update: 20/03/2020	Search engines like: Pub med, Science Direct, Google Scholar etc. Magazines like: Down to earth, The pollution	
33.	Carbon monoxide	 Introduction Properties of Carbon monoxide Uses Carbon Monoxide Sources in the Home Some Indoor plants for removing formaldehyde, benzene, and carbon monoxide from the air Benefits References 	Descriptive with images Indoor plants for removing formaldehyde, benzene, and carbon monoxide from the air	Date of upload: 10/1/2018 (Monthly) Date of last update: 20/03/2020	As above	
34.	Suspended Particulate Matter	 Introduction Microscopic solid or liquid matter suspended in the Earth's atmosphere Sources of particulate matter How are particles formed Causes of Particulate Matter Man Made Causes Effects of Particulate Matter Benefits References 	Descriptive with images of Graph of Effects of Particulate Matter and main group	Date of upload: 10/2/2018 (Monthly) Date of last update: 20/03/2020	As above	

9. Information/ Knowledge Products:

9.1 ENVIS-RP-NBRI Newsletters published during the Financial Year (2019-20):

Cover snapshot	Quarter/ Volume/ Issue/ Theme Main Articles	Number of copies printed and circulated	URL of the PDF file in ENVIS website
Text. Security of the control of the	Vol.15, No.02	500	http://nbrienvis.nic.in/Publicati onCommon.aspx?LinkId=740
EN VIS NBRI Newsletter	Vol.15, No.03	500	http://nbrienvis.nic.in/Publicati onCommon.aspx?LinkId=740
ENVIS NBRI Newsletter Envis Name of the control of	Vol.15, No.04	500	http://nbrienvis.nic.in/Publicati onCommon.aspx?LinkId=740

9.2. ENVIS-RP-NBRI Brochure published during the Financial Year (2019-20):

	Cover snapshot		URL of the PDF file in ENVIS website
Held Journal Street States and Street St. (1990). (1) When the States States Street Street St. (1990). (2) When the States Street Str	EXPLINATION OF THE PARTY OF ANNUAL PROPERTY OF ANNU	TOTAL AND	http://nbrienvis.nic.in /PublicationCommon. aspx?LinkId=740
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9.3. Information Products published/ released during last five years:

9.3.1. Information Products published:

Publication / Product	Theme(s)/ Subject Area(s)	Year of Publication	URL of the PDF file in ENVIS website
Bibliography	Arsenic with special reference to plants	2008	http://www.nbrienvis.nic.in/WriteReadData /Publication/oth_634825317586184608_ot h_634793284999489462_Arsenic_Pollutio n.pdf
Bibliography	Climate Change	2011	http://www.nbrienvis.nic.in/WriteReadData/Publication/oth_634825331816198412_oth_634793262920506617_A4-Size_Bibliography-2011.pdf
Bibliography	Transgenic Plants Used for Phytoremediation	2013	http://www.nbrienvis.nic.in/WriteReadData/Publication/NBRI%20Bibliography.pdf
Case Study	Case studies on phytoremediation	2014	http://www.nbrienvis.nic.in/WriteReadData/Publication/Case%20Studies.pdf
Case Study	Case Studies on Waste Land Management and Ecorestoration	2015	http://nbrienvis.nic.in/WriteReadData/Publication/NBRI%20- %20Case%20Study%202015.pdf

9.3.2. Other publications/information products

Cover snapshot	Publication/ Product Theme(s)/ Subject Area(s)	Number of copies printed and circulated	URL of the PDF file in ENVIS website
PLANNER PLANNER PLANNER PLANNER	"Green Planner" 'Plants for Air Pollution Control' Android Mobile Application	To be available from the "Google Play" after launching https://play.googl e.com/store/apps/details?id=com.n bri_csir	http://nbrienvis.nic. in/Database/1_241 4.aspx
PROPERTOR (AS EQUATION CONTROLS PROPERTOR PROPERTOR	"Green Planner" 'Plants for Air Pollution Control' iOS Mobile Application	To be available from the "iTunes" after launching https://itunes.appl e.com/us/app/envi s-nbri-%20green-planner/id136780 1500?ls=1&mt=8	http://nbrienvis.nic. in/Database/2_262 1.aspx

- **10. ENVIS Website** (ENVIS-RP-NBRI whose Website has been restructured may provide the Performance Report/Graphs generated therein wherever possible):
 - 10.1. **URL:** http://www.nbrienvis.nic.in
 - 10.2. **Status of restructuring of Website:** Restructured on (07/07/2014)
 - 10.3. Frequency of updating Website 2019-20: *
 - 10.4. Subject-specific database updation (numeric/ others): 34
 - 10.5. Publication uploaded/ updated on Website (2019-20): *

11. User Engagement and Interaction

User engagement and interaction	FY 2015-16	FY 2016-17* (as on 31-March- 2017)	FY 2017-18*	FY 2018-19* (as on 31- March-2019)	FY 2019-20* (as on 31- March-2020)
i. Total number of visits	111557	122442	*	1100117	1365287
ii. Number of unique visits	7028	12900	*	*	*
iii.Reports Downloaded/Read	745	224	*	*	*
iv. Total Number of Queries received	90	177	*	*	*
v. Number of Queries responded	90	180	*	*	*

^{*}These data could not retrieved from the Website Admin Panel/ Performance Reports due to HTTP error display; ENVIS Secretariat has been informed about this error).

Mode of Query Receipt	Number of	Number of Queries	Reasons for shortfalls, if any,
	Queries Received	Responded	and action taken to rectify
Online (CMS based website)	*	*	NA
Email (official NIC server)	-	-	NA
Postal/Telephonic	26	26	NA
(incl. hand post)			
Physical	417	417	NA

12. Implementation of Annual Plan of Activities of the Financial Year (2019-20):

	Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
Cer	ntre's proposed activities 2019-20		
1.	Up-gradation of website	Updation with latest information	
2.	E-News and Subjective News	Updation with latest information	
3.	Photo gallery	Updations of activities photograph http://nbrienvis.nic.in/ViewAlbum.aspx	

	Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
4.	Compilation of Abstract, bibliography, New Articles, events etc on the subject area	Up-gradation on the website http://nbrienvis.nic.in/Archive_Modules.aspx?Year =2019&Mid=100 http://nbrienvis.nic.in/Bibliography.aspx?Name=	
5.	Information on R & D institutions, policy, programmes and guidelines in the subject area	Up-gradation on the website http://www.nbrienvis.nic.in/Database/1_1745.aspx	
6.	List of Journals in Publication section	Uploaded on the website http://www.nbrienvis.nic.in/PublicationCommon.as px?LinkId=1399	
7.	List of Theses in Publication section	Uploaded on the website http://nbrienvis.nic.in/PublicationCommon.aspx?Lin kId=738	
8.	List of Books in Publication section	Uploaded on the website http://nbrienvis.nic.in/PublicationCommon.aspx?LinkId=739	
9.	Newsletter in Publication section	Published Four Quarterly Newsletters (please see 9.1 of this report)	
10.	List of Case studies in Publication section	Uploaded on the website http://nbrienvis.nic.in/PublicationCommon.aspx?LinkId=741	
11.	Videos	Uploaded on the website in publication and kind section http://www.nbrienvis.nic.in/PublicationCommon.as px?LinkId=1385 http://www.nbrienvis.nic.in/KidsCentre/Videos_1675.aspx	
12.	List of Presentations in Publication section	Uploaded on the website http://nbrienvis.nic.in/PublicationCommon.aspx?LinkId=1397	
13.	Latest News section	Uploaded on the website http://nbrienvis.nic.in/LinkPage.aspx?Year=2019& Mid=4	
14.	Glossary section	Uploaded on the website http://nbrienvis.nic.in/SearchGlossary.aspx?Name=	
15.	List of activity in Major Activity section	Uploaded on the website http://nbrienvis.nic.in/LinkPage.aspx?Year=2020& Mid=7	
16.	R & D projects report	Uploaded on the website http://www.nbrienvis.nic.in/Content/1_2097.aspx	

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
17. Networking	Up-gradation, Weekly	
18. List of experts	Uploaded on the website http://nbrienvis.nic.in/Content/experts_120.aspx	

'National Review Meet: ENVIS-2019' at Ganga Auditorium, Vayu Wing, MoEF&CC, Jor Bagh, New Delhi during April 2nd to 3rd, 2019. A. Regular Activities: Web-based Environmental Information **Collection and Compilation of Information and Data** 1. Development and regular updation of Done databases (descriptive, numeric, pictorial, geospatial, etc.) on the assigned subject area and regular uploading of the same in the Subject Area section of the ENVIS Website, after due verification/ authentication, with suitable referencing of data sources. 2. Compilation of Abstracts, Bibliography, Done News articles, Events, etc. on the subject area and uploading the same in the relevant section of ENVIS Website. 3. Identification of data gaps and Need of a mobile application on list of plants mitigating air pollutants as suggested by the formulation with implementation of action plan to fill them. Advisory Committee of ENVIS-RP-NBRI. In follow- up, An android mobile app and iOS Mobile App has been developed. Maintenance of ENVIS Website and User Engagement through it 4. Maintaining the ENVIS Website up-to-Done date and user-engaging, and as an inventory of authentic and reliable information in the subject area 5. Query-Response/ Referral service to Up to date stakeholders. 6. Developing and upgrading a Kids' Done Corner. 7. Maintaining a disaggregated record of Done visitors, including unique visitors, to the Website. **Publications and Value-Addition** 8. Publishing 4 Newsletters and uploading Done (3 Newsletters have been published) 1 is under the same in the relevant section of press ENVIS Website. * release of grant is pending

9. Processing/ analyzing data collected and	The android mobile app and iOS mobile app	
bringing out value-added information	have been developed on list of plants	
Products	mitigating air pollutants, namely "Green	
	Planner".	
10. Collecting books, reports and journals	Done	
on the subject area; Uploading		
e-versions of books, reports, etc. on the		
ENVIS Website. Uploading Abstracts		
of books, reports, journals and articles		
of those whose e-versions are not		
available.		

Reaching-out/Networking Activities		
11. National Review Meet: ENVIS – 2019	ENVIS Secretariat of Ministry of Environment,	
during 2nd April to 3rd April 2019	Forest & Climate Change (MoEF&CC)	
	organized a 'National Review Meet: ENVIS'	
	at Ganga Auditorium, Vayu Wing, MoEF&CC,	
	Jor Bagh, New Delhi during April 2 nd to 3 rd	
	April, 2019. ENVIS-Coordinator, Program	
	Officers and Information Officers of 67 ENVIS	
	Centers, i.e., 35 ENVIS- RPs and 32 State Hubs	
	across the nation took participate and displayed	
	their activities and knowledge products on	
	'Thematic mandates' and 'State of the	
	Environment and Related issues' in the form of	
	posters, banners, products and manuals in	
	ENVIS exhibition. Program started with the	
	inauguration of ENVIS exhibition by Shri C.K	
	Mishra, Secretary, MoEF&CC accompanied by	
	Dr. Anandi Subramaniam, Principal	
	Economic Advisor, MoEFR&CC, Mr. Yashvir	
	Singh, Economic Advisor, Ms. Urmila B, Joint	
	Director EI Division, MoEF&CC and other	
	members of the ENVIS Secretariat.	
	http://nbrienvis.nic.in/ViewMajorActivity.aspx?	
	Id=7738&Year=2019	
12. DG, CSIR Visit to NBRI (2-3 May,	Dr. Shekhar C. Mande, DG CSIR visited	
2019)	CSIR-NBRI during 2-3 May, 2019. He	
	inspected the laboratories of CSIR located in	
	Lucknow and got updated by the activities and	
	achievements of belonging departments. Dr.	
	Pankaj Kumar Srivastava and Dr. Babita	
	Kumari briefed about the regular activities of	
	ENVIS-RP-NBRI and success story of two	
	courses run under GSDP program. He took his keen interest in Green Planner App and	
	appreciated its role.	
	http://nbrienvis.nic.in/ViewMajorActivity.aspx? Id=5721&Year=2019	
13. ENVIS-RP-NBRI celebrated 'World	ENVIS-RP-NBRI celebrated 'World	
Environment day' on 8th June, 2019	Environment day' on 8th June, 2019. The	
Environment day on our sune, 2019	theme of this occasion was "Air pollution".	
	Prof. S.K. Barik, Director, CSIR-NBRI	
	welcomed the Chief Guest Dr. A.A. Mao ,	
	Director , Botanical Survey of India. Dr. Mao	
	Director, Dominical Darvey of Illula. Dr. 19140	

especially for Rhododendron. On this occasion, prize has been distributed to winners of Environment Quiz that was organized by Dr. Vivek Pandey, Sr. Principal Scientist, CSIR-NBRI. ENVIS-RP-NBRI am members explained the ENVIS activity to Hon'ble Chief Guest and provide him the copies of ENVIS-RP-NBRI Newsletters. http://nbrienvis.nic.in/ViewMajorActivity.aspx? Id=5722&Year=2019 14. ENVIS-RP-NBRI Activity in Jigyasa-19 15. ENVIS-RP-NBRI celebrated 'World Ozone day' on 16th September, 2019 16. ENVIS-RP-NBRI celebrated 'World Ozone day' on 16th September, 2019 17. At Seth M.R. Jaipuria School, Gomti nagar, Lucknow. Dr. Babita Kumari, Co-cordinator, ENVIS-RP-NBRI, CSIR-NBRI delivered lecture on 'World Ozone day' on 16th September, 2019 18. ENVIS-RP-NBRI celebrated 'World Ozone day' on 16th September, 2019 19. At Seth M.R. Jaipuria School, Gomti nagar, Lucknow. Dr. Babita Kumari, Co-cordinator, ENVIS-RP-NBRI, CSIR-NBRI delivered lecture on 'World Ozone day' on 16th September, 2019 19. At Seth M.R. Jaipuria School, Gomti nagar, Lucknow. Dr. Babita Kumari, Co-cordinator, ENVIS-RP-NBRI, CSIR-NBRI delivered lecture on 'World Ozone day' and briefed about the ozone layer, ozone depletion and its harmful effects. She also introduced students about the 'Montreal Protece' and steps taken by India and other countries to phase out the Ozone Depleting Substances. Students took keen interest to know about ozone hole and raised various questions that had been answered by her. ENVIS-RP-NBRI team members. Mr. Diwakar Saini, Ms. Amrita Awasthi, and Ms. Vineeta Yadav, claborated the role of ENVIS-RP-NBRI in the field of environment especially associated with 'Plant and Pollution', In this occasion,		elaborated the importance of biodiversity	
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ENVIS-RP-NBRI Brochures, issues of		ENVIS-RP-NBRI Brochures, issues of	
Newsletters related to ozone and pamphlet		Newsletters related to ozone and pamphlet	
on 'World Ozone Day'.		on 'World Ozone Day'.	

	2. Kendriya Vidyalay, Gomtinagar,	
	Lucknow	
	On the occasion of 'World Ozone day',	
	16th September, 2019 students of Kendriya	
	Vidyalay, Gomtinagar, Lucknow	
	belonging 10 to 12th classes had been	
	introduced with one of the crucial tropic of	
	Environment, i.e., Ozone Depletion and	
	Steps toward its recovery. Dr. Babita	
	Kumari delivered lecture on this topic and	
	briefed how the Ozone depleting substances	
	deplete the ozone layer and cause thinning	
	of ozone layer. She also told the students	
	about the 'Montreal Protocol', successful	
	story of CFC and HCFC phase out plan and	
	role of India in this direction. Students took	
	keen interest to know about formation of	
	ozone hole and raised various questions that	
	had been answered by her. In this occasion,	
	ENVIS-RP-NBRI team members, Mr.	
	Diwakar Saini, Ms. Amrita Awasthi, and	
	Ms. Vineeta Yadav distributed the ENVIS-	
	RP-NBRI Brochures, issues of	
	Newsletters related to ozone and pamphlet	
	on 'World Ozone Day'.	
	http://nbrienvis.nic.in/ViewMajorActivity.a	
	spx?Id=5725&Year=2019	
16. ENVIS-RP-NBRI Celebrated "World	The four days 8th Bhopal Vigyan Mela	
Ozone Day-2019" at Bhopal Vigyan	was jointly organized by Vigyan Bharti	
Mela-2019	and CSIR-AMPRI , Bhopal, during 13-16	
Wicia-2017	September 2019 at BHEL , Dushera Mela	
	Ground at Bhopal . Minister of Science and	
	Technology Shri. PC Sharma, Director	
	General CSIR Dr. Shekhar Mande and	
	Director, CSIR-AMPRI, Dr. Avnish	
	· · · · · · · · · · · · · · · · · · ·	
	Kumar Srivastava has graced the	
	inauguration ceremony with their presence.	
	The event was started with grand	
	participation of scientists, students and	
	experts from all over the country. There was	
	more than 100 stall by government and	
	nongovernment departments in the fair. Mr.	
	Sunil Tripathi, Programme Officer,	
	ENVIS-RP-NBRI demonstrated the	
	educational display related to harmful	
	effects of ozone layer depletion, Montreal	
	Protocol and India's role to implements the	
	Montreal Protocol. He has distributed	
	ENVIS- Newsletters and Brochures to the	
	visitors and students.	
	http://nbrienvis.nic.in/ViewMajorActivity.a	
	spx?Id=5724&Year=2019	
17. Indian Science Congress, 3-7 Jan, 2020	107th Indian Science Congress was held	
	during 3-7 Jan 2020 , at University of	
	Agricultural Sciences, GKVK Campus,	
	Bangalore, Karnataka. The theme of this	

18. ENVIS-NBRI activity during the Rose & Gladiolus Flower Show at CSIR-NBRI on 18-19th January, 2020	conference was "Science Technology: Rural Development". It was inaugurated by Mr. Narendra Modi, Prime Minister. PM Modi gave the motto of "Innovate, Patent, Produce and Prosper" to the young scientists in the country, saying that these four steps will lead India towards faster development. Dr. Babita Kumari, Co-coordinator, ENVIS-RP-NBRI, Lucknow presented poster entitled 'ENVIS: a plate form for Environmental Education and Awareness in Environmental Science Division'. CSIR-NBRI organized its 60th 'Rose and Gladiolus Show' on 18-19th January, 2020 at the institute ground. On the occasion of this two days annual show, Dr. S.K. Barik, Director, CSIR-NBRI welcomed the Chief Guest Dr. Shekhar C. Mande, DG, CSIR and Secretary, DSIR, Govt. of India. They released the issue of Hindi Rajbhasha magazine 'Vigyan vani' and also distributed 26 running cups/shields/trophies along with 291 general prizes to the winners. ENVIS-RP-NBRI has contributed two chapters in this magazine, i.e., ¶ykjkbM % cliphkko vkj mik; i;kojk l puk ç.kkyh clk kekftcl;kxnku Dr. Sharmila Mande wife of Shekhar Chintamani Mande released new variety of Chrysanthemum 'Shekhar' developed by	
	displayed the posters and standees related to its activities and themes 'Plant and Pollution'. Dr. Vivek Srivastava , Coordinator, Dr. Babita Kumari , Cocoordinator, Mr. Sunil Tripathi , Program Officer and Mr. Diwakar Saini , Information Officer, ENVI RP-NBRI interacted with the visitors and briefed the role of plants in pollution abatement. http://nbrienvis.nic.in/ViewMajorActivity.a spx?Id=7733&Year=2020	
19. Maintaining a list of Experts in the subject area and uploading the same, along with updated C.V., in the relevant section of ENVIS Website.	Uploaded http://nbrienvis.nic.in/Content/experts 120.aspx	
20. Coordination with the Ministry for timely dissemination of relevant and adequate information to stakeholders.	Done	
21. Formulate strategic plans to generate sources of funds from corporate sector and/ or through subscriptions of Newsletters/ other publications	In process	

В.	SPECIAL ACTIVITIES		
22.	Focus on database development	CSIR e journal consortium	
	(numeric and descriptive), with due	-	
	authentication in consultation with Line		
	Departments/ research institutes, etc.		
23.	Network and undertake outreach	Completed nine events of outreach as on 31-03-	
	activities with Universities/ Research	2019	
	bodies/ researchers in the State, similar		
	to those of Odisha ENVIS, so that the		
	ENVIS collections/ repositories can be		
	enriched, including with their contact		
	details/ CVs, etc.		
24.	Circulate Newsletters and knowledge	Circulating	
	products to as many stakeholders as		
	possible in the State, especially policy		
	makers/ planners.		
25.	Link its Website to other Government		
	Websites; develop the vernacular		
	Website; and undertake other awareness		
	enhancing activities within the State.		
26.	Maintain a Register for keeping track of	Maintained	
	queries received and transferred/		
	answered.		
27.	Build institutional repositories of	In process	
	various types of media related to		
	environmental issues.		
28.	Bring out a Brochure on environmental	One Brochure by ENVIS-RP-NBRI prepared.	
	issues to spread awareness about World		
	Environment Day, focusing on forestry/		
	mining/ Climate Change/ disasters/ etc.		

29.	New initiatives taken during the Financial Year (2019-20):	1.	National Review Meet: ENVIS – 2019 during 2nd April to 3rd April 2019 Dated-2 nd -3 rd April 2019 http://nbrienvis.nic.in/ViewMajorActivity.aspx?Id=7738 &Year=2019
		2.	DG, CSIR Visit to NBRI Dated- May 2-3, 2019 http://nbrienvis.nic.in/ViewMajorActivity.aspx?Id=5721 &Year=2019
		3.	ENVIS-RP-NBRI Activity in Jigyasa-19, K.V. Vidyalaya, Basti, Varanasi and Allahabad (U.P.) Dated- 27 May, 15 July, 22 July and 24 July, 2019 http://nbrienvis.nic.in/ViewMajorActivity.aspx?Id=5723 &Year=2019
		4.	ENVIS-RP-NBRI celebrated 'World Environment day' At CSIR-NBRI on 8th June, 2019 Dated- June 08, 2019
			http://nbrienvis.nic.in/ViewMajorActivity.aspx?Id=5722 &Year=2019

	5.	ENVIS-RP-NBRI Celebrated "World Ozone Day-2019" at Bhopal Vigyan Mela-2019 Dated- 13-16 September, 2019 http://nbrienvis.nic.in/ViewMajorActivity.aspx?Id=5724 &Year=2019
	6.	ENVIS-RP-NBRI celebrated 'World Ozone day' on 16th September, 2019 Dated- September 16, 2019 http://nbrienvis.nic.in/ViewMajorActivity.aspx?Id=5725 <u>&Year=2019</u>
	7.	Indian Science Congress, 3-7 Jan, 2020 Dated- 3-7 January, 2020 http://nbrienvis.nic.in/ViewMajorActivity.aspx?Id=7740 <u>&Year=2020</u>
	8.	ENVIS-NBRI activity during the Rose & Gladiolus Flower Show at CSIR-NBRI on 18-19th January, 2020 http://nbrienvis.nic.in/ViewMajorActivity.aspx?Id=7733 &Year=2020

13. Status of existing hardware:

	Hardware item	Specification	Sanction Order with	Date of
			Date	procurement
Procured from ENVIS Grant	Computer -2 (Old)	Desktop Computer with Windows 8 operating system, Intel Core i3, Model HP/3330 with 18.5"TFT Monitor	Order No: 8/145/13- P/Plg_861 dated 12- 2-14	Order No: 8/145/13- P/Plg_861 dated 12-2-14
	Multifunctional Printer	HP Laserjet 200 Color MFP M276 PCL 6	Order No 8/11/14-P Dated 29.05.2014	09.06.2014

14. Status of utilization of grant during the financial year 2019-20 as on 31st March 2019 and reasons for shortfalls, if any:

	Head of Expenditure	Sanctioned amount	Actual Expenditure	Reasons for Shortfall/
		(Rs.)	(Rs.)	Excess (if any)
Recurring	Manpower	INR 14,38,554.00	INR 12,81,628.00	N/A
Annual	Others (Database	INR 4,65,300.00	INR 2,01,757.00	N/A
	development, website			
	maintenance, printing			
	of Newsletters &			
	Prakriti map,			
	contingency,			
	stationary,			
	consumables, AMC,			
	Internet charge,			

Factsheet of 2019-20 (as on 31st March 2020) on Activities of ENVIS-RP-NBRI on "Plants and Pollution"

	training, inter-center			
interaction workshops, expenses or monitoring, ISBEID database development, mobile app				
	development etc.)	INID 1 00 000 00	IND 50 102 00	NI/A
	Travel	INR 1,00,000.00	INR 50,193.00	N/A
Non-	NIL	NIL	NIL	NIL
Recurring				

15. Issues/ hurdles faced in undertaking ENVIS activities:

1	Performance report at Admin Panel is not working properly to fetch the statistical data.
2	Requirement of two new computation system of (i7 processor) for proper and fast working of ENVIS-RP-NBRI activity.
3	During the financial year the grants was not release on time by the Ministry
4	We have proposed three GSDP programmes and got the sanction order by MoEF&CC but fund was not released during the financial year 2019-20`
5	

Details of Activities Done in 2019-20

1. Activities done as per ENVIS-RP-NBRI's mandate

S. No.	Topic	Content Updated and URL
1.	About Us	Addition of Page of ENVIS Portal
		Url: http://nbrienvis.nic.in/Content/3_2485.aspx
		 Updation of centre number in About the ENVIS
		Url: http://nbrienvis.nic.in/Content/1_846.aspx
2.	ENVIS	 Addition of 69th ENVIS centre, Itanagar, Arunachal Pradesh
	Network	Url: http://nbrienvis.nic.in/Content/ENVISCentres_491.aspx
3.	FAQs	Addition of 5 new FAQs
		Url: http://www.nbrienvis.nic.in/Content/FAQs_123.aspx
4.	Contact Us	Details of ENVIS team (2 Ex-employees were deleted from the list)
		Url: http://www.nbrienvis.nic.in/Content/contactus_124.aspx
5.	Related	06 new abbreviations were added in Abbreviation Page
	Links	Url: http://www.nbrienvis.nic.in/Content/1 2095.aspx
6.	Subject Area	Database : Updation of New added Numerical data and Reference Data for
		34 databases.
		1. Nickel
		http://nbrienvis.nic.in/Database/1_2028.aspx
		2. Chromium
		http://nbrienvis.nic.in/Database/1_2029.aspx
		3. Cadmium
		http://nbrienvis.nic.in/Database/1_2031.aspx
		4. Copper
		http://nbrienvis.nic.in/Database/1_2032.aspx
		5. Lead

	http://nbrienvis.nic.in/Database/1_2033.aspx
6.	Mercury
_	http://nbrienvis.nic.in/Database/1_2034.aspx
/.	Arsenic http://nbrienvis.nic.in/Database/1_2035.aspx
8	Zinc
0.	http://nbrienvis.nic.in/Database/1_2136.aspx
9.	Iron
	http://nbrienvis.nic.in/Database/1_2140.aspx
10	. Metal/Metalloid
	http://nbrienvis.nic.in/Database/1_2160.aspx
11	. Endosulfan
12	http://nbrienvis.nic.in/Database/1_2038.aspx
12	. Lindane http://nbrienvis.nic.in/Database/1_2037.aspx
13	. Neonicotinoids
	http://nbrienvis.nic.in/Database/1_2126.aspx
14	. Organophosphate
	http://nbrienvis.nic.in/Database/1_2147.aspx
15	. Carbofurans
	http://nbrienvis.nic.in/Database/1_2148.aspx
16	Nitrogen fertilizer
17	http://nbrienvis.nic.in/Database/1_2199.aspx . Ozone
17	http://nbrienvis.nic.in/Database/1_2044.aspx
18	. Fluoride
	http://nbrienvis.nic.in/Database/1_2043.aspx
19	. Biogas
	http://nbrienvis.nic.in/Database/1_2042.aspx
20	. Green House Gases
21	http://nbrienvis.nic.in/Database/1_2041.aspx . Sulphurdioxide
	http://nbrienvis.nic.in/Database/1_2040.aspx
22	. Nitrogen Oxides
	http://nbrienvis.nic.in/Database/1_2039.aspx
23	. Carbon Monoxide
	http://nbrienvis.nic.in/Database/1_2462.aspx
24	. Hydrocarbon
25	http://nbrienvis.nic.in/Database/1_2465.aspx . Bioremediation
25	http://nbrienvis.nic.in/Database/1_2047.aspx
26	. Indoor Air Pollutant
	http://nbrienvis.nic.in/Database/1_2048.aspx
27	. Nanoparticles
	http://nbrienvis.nic.in/Database/1_2049.aspx
28	. Acid Rain
	http://nbrienvis.nic.in/Database/1_2050.aspx
29	. Smog http://nbrienvis.nic.in/Database/1_2051.aspx
30	. Waste Land Management through Plants
	http://nbrienvis.nic.in/Database/1_2063.aspx
31	Role of Plants in CO ₂ Sequestration
	http://nbrienvis.nic.in/Database/1_2162.aspx
32	. Climate Change-CO ₂ Enrichment
	http://nbrienvis.nic.in/Database/1_2163.aspx
33	. Climate Change – Methane

		http://nbrienvis.nic.in/Database/1_2164.aspx
		34. Suspended Particulate Matter
		http://nbrienvis.nic.in/Database/1_2463.aspx
		News Bulletin: Updation of E-News of up-to-date
		Url: http://nbrienvis.nic.in/Database/1_2124.aspx
		Updation of Subjective News of March
		Url:
		http://nbrienvis.nic.in/WriteReadData/CMS/subjectivenews_march_2020.
		pdf
4.	Publication	Addition of 2 Books
		1. Indoor Air Pollution
		http://nbrienvis.nic.in/PublicationCommon.aspx?Year=2019&Mid=2&Link
		Id=739
		2. Phytoremediation With Selected Plants In Heavy Metals Polluted Soils
		http://nbrienvis.nic.in/PublicationCommon.aspx?Year=2019&Mid=2&Link
		Id=739
		Addition of 2 Theses
		1. Potential of Alfalfa for use in chemically and biologically assisted
		Phytoremediation of soil co-contaminated with petroleum hydrocarbons
		and metals
		http://nbrienvis.nic.in/PublicationCommon.aspx?Year=2019&Mid=2&Link
		Id=738
		2. Effect of arsenic both in soil and irrigation water on vegetable plants and promising soil additives for remedial measure of arsenic toxicity
		http://nbrienvis.nic.in/PublicationDetails.aspx?SubLinkId=3765&LinkId=7
		38&Year=2019
		Addition of 4 Newsletters
		Biosorbent and Heavy Metal
		http://nbrienvis.nic.in/PublicationDetails.aspx?SubLinkId=5784&LinkId=7
		40&Year=2019
		2. Role of Lichen as Air Pollution
		http://nbrienvis.nic.in/PublicationDetails.aspx?SubLinkId=5779&LinkId=740&Year=2019
		+0&1 Ca1 -2017
		3. Vertical Gardens: Its Role in Conserving Enviornment and Mitigating
		Pollution
		http://nbrienvis.nic.in/PublicationDetails.aspx?SubLinkId=5775&LinkId=7
		40&Year=2019
		4. "Dele of Diente to such Diente Dellevier" in it is a COVID 10
		4. "Role of Plants to curb Plastic Pollution" is in pipeline due to COVID-19
		amid situation (Not Uploaded)
		Addition of 5 Videos
		1. How To Prevent Air Pollution: Combat Air Pollution With These Air
		Purifying Plants
		http://nbrienvis.nic.in/PublicationDetails.aspx?SubLinkId=3770&LinkId=1
		385&Year=2019

		2. Urban Trees, Better Air Quality http://nbrienvis.nic.in/PublicationDetails.aspx?SubLinkId=3763&LinkId=1 385&Year=2019
		3. A NASA Study Explains How To Purify Air With House Plants http://nbrienvis.nic.in/PublicationDetails.aspx?SubLinkId=3757&LinkId=1 385&Year=2019
		4. Smog In Delhi: These Plants Can Help You Save From Pollution Inside Your Home http://nbrienvis.nic.in/PublicationDetails.aspx?SubLinkId=3758&LinkId=1 385&Year=2019
		5. Best Indoor Plants Cute House Plants That Clean The Air http://nbrienvis.nic.in/PublicationDetails.aspx?SubLinkId=3759&LinkId=1 385&Year=2019
		Addition of 3 Presentation
		Our Presentation Topic: How to make our campus more green and
		pollution free
		http://nbrienvis.nic.in/PublicationDetails.aspx?SubLinkId=3755&LinkId=13 97&Year=2019
		Heavy Metal Pollution & Remediation In Urban and Peri-Urban Agriculture
		http://nbrienvis.nic.in/PublicationDetails.aspx?SubLinkId=3756&LinkId=13 97&Year=2019
		3. Indian Science Congress, 3-7 Jan, 2020 http://nbrienvis.nic.in/PublicationDetails.aspx?SubLinkId=5799&LinkId=13 97&Year=2020
		Addition of 1 Poster
		1. Indian Science Congress, 3-7 Jan, 2020 http://nbrienvis.nic.in/PublicationDetails.aspx?SubLinkId=5800&LinkId=1 398&Year=2020
5.	Latest News	India, Norway sign first joint initiative to combat marine pollution Url:http://nbrienvis.nic.in/ViewGeneralLatestNews.aspx?Id=4711&Year=201 9
6.	Upcoming	6th World Congress on Climate Change and Global Warming
	Events	http://nbrienvis.nic.in/ViewPastEvent.aspx?Id=5713&Year=2019 2. 7th World Congress on Earth and Environmental Science
		http://nbrienvis.nic.in/ViewPastEvent.aspx?Id=5720&Year=2019
		3. 2nd World Conference on Soil Microbiology, Ecology and Biochemistry
		 http://nbrienvis.nic.in/ViewPastEvent.aspx?Id=5719&Year=2019 8th International Conference on Biodiversity Conservation and Ecosystem Management
		http://nbrienvis.nic.in/ViewPastEvent.aspx?Id=5718&Year=2019
		5. 9th International Conference on Environment and Climate Change
		 http://nbrienvis.nic.in/ViewPastEvent.aspx?Id=5717&Year=2019 International Conference on Environmental Microbial Biofilms and Human Microbiomes
		http://nbrienvis.nic.in/ViewPastEvent.aspx?Id=5716&Year=2019 7. CSIR-NBRI Chrysanthemum and Coleous show 2019

		http://nbrienvis.nic.in/ViewPastEvent.aspx?Id=5726&Year=2019
		8. Air Pollution & Plants Conference
		http://nbrienvis.nic.in/ViewPastEvent.aspx?Id=5730&Year=2020
		9. 7th International Conference on Pollution Control & Sustainable
		Environment
		http://nbrienvis.nic.in/ViewPastEvent.aspx?Id=6730&Year=2020
		10. Diamond Jubilee, Rose and Gladiolus Flower Show 2020
		http://nbrienvis.nic.in/ViewPastEvent.aspx?Id=7730&Year=2020
		11. Online Competition on "COVID-19 Pendemic and Environment"
		http://nbrienvis.nic.in/ViewPastEvent.aspx?Id=7734&Year=2020
		12. 8th Global Summit and Expo on Pollution Control
		http://nbrienvis.nic.in/ViewEvents.aspx?Id=6731&Year=2020 13. Green Skill Development Programme 2019-20
		http://nbrienvis.nic.in/ViewEvents.aspx?Id=5728&Year=2020
		integral intervisional view by entistaspy. Id=3720cc i cui=2020
7.	Kids Centre	1. Addition of Video on " Greenhouse effect Wikipedia audio article"
		Url: http://nbrienvis.nic.in/KidsCentre/GreenhouseEffectforKids_2543.aspx
		2. Addition of Video on "The Greenhouse Effect"
		Url:http://nbrienvis.nic.in/KidsCentre/GreenhouseEffectforKids_2543.asp
		X
		3. Addition of Video on " Greenhouse Effect and Global Warming
		3. Addition of Video on " Greenhouse Effect and Global Warming Environmental Science LetsTute"
		Url: http://nbrienvis.nic.in/KidsCentre/GreenhouseEffectforKids_2543.aspx
		on. http://horienvis.me.m/ridscende/GreenhouseEffectfoffids_25/15.dsp/
		4. Addition of Video on "The Greenhouse Effect"
		Url: http://nbrienvis.nic.in/KidsCentre/GreenhouseEffectforKids_2543.aspx
		5. Addition of Video on " Greenhouse effect kid definition"
		Url: http://nbrienvis.nic.in/KidsCentre/GreenhouseEffectforKids_2543.aspx
		6. Addition of Video on " Ecosystem for Kids "
		Url: http://nbrienvis.nic.in/KidsCentre/Ecosystem_for_kids_3686.aspx
		On. http://hononvis.inc.in/ KidsCondo/ Leosystem_for_kids_5000.aspx
8.	Glossary	Activated sludge, Assimilation, Biochemical oxygen demand (BOD),
		Catalytic incinerator, Benthic organism (benthos), Carbon adsorber,
		Toxicity, Fluorides, Fugitive emissions were added
		Url: http://nbrienvis.nic.in/SearchGlossary.aspx?Name=
9.	Major	1. National Review Meet: ENVIS – 2019 during 2nd April to 3rd April 2019
	activity	Dated- April 02-03, 2019
		http://nbrienvis.nic.in/ViewMajorActivity.aspx?Id=7738&Year=2019
		2. DG, CSIR Visit to NBRI
		Dated- May 2-3, 2019
		http://nbrienvis.nic.in/ViewMajorActivity.aspx?Id=5721&Year=2019
		T
		3. ENVIS-RP-NBRI Activity in Jigyasa-19, K.V. Vidyalaya, Basti, Varanasi
		and Allahabad (U.P.)
		Dated- 27 May, 15 July, 22 July and 24 July, 2019
		http://nbrienvis.nic.in/ViewMajorActivity.aspx?Id=5723&Year=2019
		4 ENVIS DD NDDI galabuated (Would Environment deep At COID NDDI
		4. ENVIS-RP-NBRI celebrated 'World Environment day' At CSIR-NBRI on 8th June, 2019
		Dated- June 08, 2019
L	<u> </u>	Dated Julie 00, 2017

		http://nbrienvis.nic.in/ViewMajorActivity.aspx?Id=5722&Year=2019
		5. ENVIS-RP-NBRI Celebrated "World Ozone Day-2019" at Bhopal Vigyan Mela-2019 Dated- 13-16 September, 2019
		http://nbrienvis.nic.in/ViewMajorActivity.aspx?Id=5724&Year=2019
		6. ENVIS-RP-NBRI celebrated 'World Ozone day' on 16th September, 2019 Dated- September 16, 2019 http://nbrienvis.nic.in/ViewMajorActivity.aspx?Id=5725&Year=2019
		7. Indian Science Congress, 3-7 Jan, 2020
		Dated- 3-7 January, 2020 http://nbrienvis.nic.in/ViewMajorActivity.aspx?Id=7740&Year=2020
		8. ENVIS-NBRI activity during the Rose & Gladiolus Flower Show at CSIR-NBRI on 18-19th January, 2020 http://pbriopyis.nic.in/VioyyMajorActivity.aspx?Id=7733 & Yoar=2020
10.	Bibliography	http://nbrienvis.nic.in/ViewMajorActivity.aspx?Id=7733&Year=2020 Understanding and improving Carbon monoxide
		Url: http://nbrienvis.nic.in/Bibliography.aspx?Name=
11.	Picture Gallery	Addition of Photographs of 1. National Review Meet: ENVIS – 2019 during 2nd April to 3rd April 2019 http://nbrienvis.nic.in/viewPhotos.aspx?Cat_ld=62
		2. DG, CSIR Visit to NBRI on May 2-3, 2019 Url: http://nbrienvis.nic.in/viewPhotos.aspx?Cat_Id=56
		3. ENVIS-RP-NBRI Activity in Jigyasa-19, K.V. Vidyalaya, Basti, Varanasi and Allahabad (U.P.) on 27 May, 15 July, 22 July and 24 July, 2019 Url: http://nbrienvis.nic.in/viewPhotos.aspx?Cat_Id=57
		4. ENVIS-RP-NBRI celebrated 'World Environment day' At CSIR-NBRI on 8th June, 2019 Url: http://nbrienvis.nic.in/viewPhotos.aspx?Cat_Id=58
		5. ENVIS-RP-NBRI celebrated 'World Ozone day' on 16th September, 2019 Url: http://nbrienvis.nic.in/viewPhotos.aspx?Cat_Id=59
		6. ENVIS-RP-NBRI Celebrated "World Ozone Day-2019" at Bhopal Vigyan Mela-2019 on 13-16 September, 2019 Url: http://nbrienvis.nic.in/viewPhotos.aspx?Cat_Id=60
		7. Indian Science Congress, 3-7 Jan, 2020 at University of Agricultural Sciences, GKVK Campus, Bangalore, Karnataka Dated- 3-7 January, 2020 http://nbrienvis.nic.in/ViewMajorActivity.aspx?Id=7740&Year=2020
		8. ENVIS-NBRI activity during the Rose & Gladiolus Flower Show at CSIR-NBRI on 18-19th January, 2020 Url: http://nbrienvis.nic.in/viewPhotos.aspx?Cat_Id=61

2. Awareness Programme under ENVIS-RP-NBRI

2.1. National Review Meet: ENVIS – 2019 during 2nd April to 3rd April 2019:

ENVIS Secretariat of Ministry of Environment, Forest & Climate Change (MoEF&CC) organized a 'National Review Meet: ENVIS' at Ganga Auditorium, Vayu Wing, MoEF&CC, Jor Bagh, New Delhi during 2nd April to 3rd April, 2019. ENVIS-Coordinator, Program Officers and Information Officers of 67 ENVIS Centres, i.e., 35 ENVIS- RPs and 32 State Hubs across the nation took participate and displayed their activities and knowledge products on 'Thematic mandates' and 'State of the Environment and Related issues' in the form of posters, banners, products and manuals in ENVIS exhibition. Program started with the inauguration of ENVIS exhibition by Shri C.K Mishra, Secretary, MoEF&CC accompanied by Dr. Anandi Subramaniam, Principal Economic Advisor, MoEFR&CC, Mr.Yashvir Singh, Economic Advisor, Ms. Urmila B, Joint Director EI Division, MoEF&CC and other members of the ENVIS Secretariat.

In Inaugural Session, Shri Yashvir Singh welcomed the dignities and special invitees Dr. Kailash Chandra, Director, ZSI, Shri B. Kalyan Chakravarthy, Director General, EPTRI, Dr. Ashok Ghosh, Chairman, BSPSB, Prof. S.K. Barik, Director, NBRI, Dr. Deepak Apte, Director, BNHS and ENVIS RP, Dr. Abinash Mohanty, Coordinator ADRI ENVIS RP. Ms Urmila presented the objectives and the new addition of the activities under the ENVIS Scheme followed by the presentations on the work on GRIDSS - A Grid based Resource Information and Decision Support System (GRIDSS) for sustainable Manageemnt of Natural Resources by special invitees and Coordinators of few ENVIS centers like Dr. Gufran Beig, Coordinator, IITM ENVIS RP, Pune, Dr. Areendran, WWF ENVIS RP, New Delhi and Dr. T.V Ramachandra, Coordinator, IISc ENVIS RP, Bangalore On this occasion, Shri C.K Mishra also launched the ENVIS knowledge and information products of different ENVIS centers like Corridor Mapping Using Habitat Suitability and Cost Distance Analysis for Tiger in Satpuda - Pench Corridor, Central India by World Wide Fund for Nature - India (WWF) ENVIS Hub to predict the possible tiger corridor between Satpuda tiger reserve and Pench tiger reserve, NES GRIDSS Ramanagara Report by Environmental Management Policy & Research Institute (EMPRI), Bangaluru, Mobile App by Department of Environmental Sciences (DES), Kalyani University ENVIS RP on Vermicomposting Earthworm Practices & Applications and Silicosis, Hindi Language Mobile App, by National Institute of Occupational Health (NIOH) ENVIS RP.

On this occasion, a hands on training by EAT/PFMS was conducted by **Shri Ravi Goswami**, ENVIS Secretariat. He detailed the process of how to fill GFR 12A, Utilization Certificate and Expenditure Statement forms. **Mr Ranjan Kumar** and his team demonstrated revamped ENVIS Portal / ENVIS Network Web sites. All databases and their storage will be on one platform. They will provide an interface to all RPs and Hubs. **Dr. Subramaniam**, **Shri Yashvir Singh**, Economic Advisor, **Ms. Urmila** discussed on GSDP-Master Trainers, Placement Facility provided by ENVIS HUBs/RPs. They also discussed general and specific issues and the difficulties faced by the ENVIS centers. They also briefed on NES-GRIDSS district allocation and the flowchart pertaining to the implementation of the same.

> Picture Gallery:



National Review Meet & Exhibition organized by ENVIS Secretariat, EI Division, Ministry of Environment, Forest and Climate Change on 2-3 April, 2019 at Indira Paryavaran Bhawan, Jorbagh Road, New Delhi



Logo of ENVIS-RPs and State Hubs across the nation participated in the 'National Review Meet & Exhibition-19'



Shri C.K Mishra, Secretary, MoEF&CC accompanied by Dr. Anandi Subramaniam, Principal Economic Advisor, MoEFR&CC, Mr. Yashvir Singh, Economic Advisor, Ms. Urmila B, Joint Director EI Division, MoEF&CC and other members of the ENVIS Secretariat inaugurated Nation Review Meet & Exhibition.



Prof. S.K. Barik, Director, CSIR-NBRI visited stalls in Nation Review Meet Exhibition

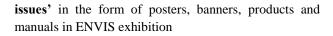


Dr. Pankaj Kumar Srivastava, Coordinator, ENVIS-RP, briefing the activities of **ENVIS-RP-NBRI** and showing the manuals of training programs 'Pollution Monitoring:



Stalls by ENVIS-RP and State Hubs, displaying their activities and knowledge products on 'Thematic mandates' and 'State of the Environment and Related

Soil Pollution' and 'Green Belt Development for Industries' held under Green Skill Development Program 2018-19.







Participants belonging to ENVIS RP and State Hubs along with the members of ENVIS Secretariat of Ministry of Environment, Forest & Climate Change (MoEF&CC)

Mr. Yashvir Singh, Economic Advisor, welcoming the dignities and special invitees, Shri C.K Mishra, Secretary, MoEF&CC, Dr. Anandi Subramaniam, Principal Economic Advisor, Ms. Urmila B, Joint Director EI Division, MoEF&CC, Dr. Kailash Chandra, Director, ZSI, Shri B. Kalyan Chakravarthy, Director General, EPTRI, Dr. Ashok Ghosh, Chairman, BSPSB, Prof. S.K. Barik, Director, NBRI, and Dr. Deepak Apte, Director, BNHS.



Different ENVIS knowledge and information products launched by **Shri C.K Mishra**, Secretary, MoEF&CC accompanied by other dignities and invitees.

2.2. DG, CSIR Visit to NBRI on May 2-3, 2019:

Dr. Shekhar C. Mande, DG CSIR visited CSIR-NBRI during 2-3 May, 2019. He inspected the labororaties of CSIR located in Lucknow and got updated by the activities and achievements of belonging departments. **Dr. Pankaj Kumar Srivastava** and **Dr. Babita Kumari** briefed about the regular activities of **ENVIS-RP-NBRI** and success story of two courses run under **GSDP program**. He took his keen interest in Green Planner app and appreciated its role.

Picture Gallery:



Dr. Babita Kumari Co-coordinator briefed about the regular activities of **ENVIS-RP-NBRI** and success story of two courses run under **GSDP program** to the **Chief Guest Dr. Shekhar C. Mande, DG, CSIR**

2.3. ENVIS RP-NBRI Activity in Jigyasa-19:

Under the Jigyasa programme, students of Kendriya Vidyalaya from different districts of Uttar Pradesh i.e., Basti, Varanasi and Allahabad visited to CSIR-NBRI on 27 May, 15 July, 22 July and 24 July, 2019. These students had been introduced with the current researches going on in the institute. The importance and role of ENVIS RP-NBRI was briefed before them. Beside, application of Green Planner was also explained. Lecture on 'Vertical Garden' was presented by Dr. Babita Kumari, Co-coordinator. ENVIS RP-NBRI team members actively participated for explaining the role of plant to mitigate the indoor and outdoor pollution. They also displayed and distributed ENVIS RP-NBRI-Newsletters to the teachers and students.

> Picture Gallery:



Dr. Vivek Srivastava, Coordinator, ENVIS
-RP-NBRI interacted to students



ENVIS-RP-NBRI Team conducted the quiz competition for students





Dr. Babita Kumari, Co-coordinator delivered lecture and **ENVIS-RP-NBRI** team members explained the role of plant to mitigate the indoor and outdoor pollution.





ENVIS-RP-NBRI team and Kendriya Vidyalaya Students and faculty



Mr. Sunil Tripathi, Programme Officer, **ENVIS-RP-NBRI** briefed newsletters to the students



Mrs. Amrita Awasthi, IT-Officer, ENVIS-RP-NBRI briefed posters to the students



Visitor get registered on **ENVIS-RP-NBRI** Stall



Mrs. Vineeta Yadav, ENVIS-RP-NBRI Team member briefed posters

2.4. ENVIS-RP-NBRI celebrated 'World Environment day' at CSIR-NBRI on 8th June, 2019:

ENVIS-RP-NBRI celebrated 'World Environment day' on 8th June, 2019. The theme of this occasion was "Air pollution". Prof. S.K. Barik, Director, CSIR-NBRI welcomed the Chief Guest Dr. A.A. Mao, Director, Botanical Survey of India. Dr. Mao elaborated the importance of biodiversity especially for Rhododendron. On this occasion, prize has been distributed to winners of Environment Quiz that was organized by Dr. Vivek Pandey, Sr. Principal Scientist, CSIR-NBRI. ENVIS-RP-NBRI team members explained the ENVIS activity to hon'ble Chief Guest and provide him the copies of ENVIS-RP-NBRI Newsletters.

➤ Picture Gallery:









Prof. S.K. Barik, Director, CSIR-NBRI welcomed the Chief Guest **Dr. A.A. Mao**, Director, Botanical Survey of India.





Registration of the Scientist, students and other members to attend the Programme





Visitors on the ENVIS-RP-NBRI stall

2.5. ENVIS-RP-NBRI celebrated 'World Ozone day' on 16th September, 2019:

1. At Seth M.R. Jaipuria School, Gomti nagar, Lucknow

ENVIS-RP-NBRI celebrated 'World Ozone day' on 16th September, 2019 in Seth M.R. Jaipuria School, Gomti nagar, Lucknow. Dr. Babita Kumari, Co-cordinator, ENVIS-RP-NBRI, CSIR-NBRI delivered lecture on 'World Ozone day' and briefed about the ozone layer, ozone depletion and its harmful effects. She also introduced students about the 'Montreal Protocol' and steps taken by India and other countries to phase out the Ozone Depleting Substances. Students took keen interest to know about ozone hole and raised various questions that had been answered by her. ENVIS RP-NBRI team members, Mr. Diwakar Saini, Ms. Amrita Awasthi, and Ms. Vineeta Yadav, elaborated the role of ENVIS-RP, CSIR-NBRI in the field of environment especially associated with 'Plant and Pollution'. In this occasion, ENVIS team members also distributed the ENVIS-RP-NBRI brochures, issues of newsletters related to ozone and pamphlet on 'World Ozone Day'.

➤ Picture Gallery:





Dr. Babita Kumari delivered lecture and interact with students of **Seth M.R. Jaipuria School**, Gomti nagar, Lucknow the on World Ozone Day





Registration of the faculties and students of school on this occasion

2. Kendriya Vidyalay, Gomtinagar, Lucknow:

On the occasion of 'World Ozone day', 16th September, 2019 students of Kendriya Vidyalaya, Gomtinagar, Lucknow belonging 10 to 12th classes had been introduced with one of the crucial tropic of Environment, i.e., Ozone Depletion and Steps toward its recovery. Dr. Babita Kumari delivered lecture on this topic and briefed how the Ozone depleting substances deplete the ozone layer and cause thinning of ozone layer. She also told the students about the 'Montreal Protocol', successful story of CFC and HCFC phase out plan and role of India in this direction. Students took keen interest to know about formation of ozone hole and raised various questions that had been answered by her. In this occasion, ENVIS-RP-NBRI team members, Mr. Diwakar Saini, Ms.

Amrita Awasthi, and Ms. Vineeta Yadav distributed the ENVIS-RP-NBRI brochures, issues of newsletters related to ozone and pamphlet on 'World Ozone Day'.

➤ Picture Gallery:





Interaction with Kendriya Vidyalaya, Gomtinagar, Lucknow on "32 years and healing" of Ozone layer





Distribution of publications on Ozone by members of ENVIS-RP CSIR-NBRI

2.6. ENVIS RP-NBRI Celebrated "World Ozone Day-2019" at Bhopal Vigyan Mela-2019:

The four days **8th Bhopal Vigyan Mela** was jointly organized by Vigyan Bharti and CSIR-AMPRI, Bhopal, during 13-16 September 2019 at BHEL, Dushera Mela Ground at Bhopal.

Minister of Science and Technology Shri. PC Sharma, Director General CSIR Dr. Shekhar Mande and Director, CSIR-AMPRI, Dr. Avnish Kumar Srivastava has graced the inauguration ceremony with their presence.

The event was started with grand participation of scientists, students and experts from all over the country. There was more than 100 stall by government and nongovernment departments in the fair.

> Picture Gallery:





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Dr. Vivek Srivastava, Coordinator ENVIS-RP-NBRI emphasized on the harmful effects of the Ozone Depleting Substances like Chlorofluorocarbons (CFCS), Hydrochlorofluorocarbons (HCFCS), Hydrobromoflurocarbons (HBFCS), Halons, Methyl Bromide, Carbon Tetrachloride, Methyl Chloroform, etc. on Ozone Layer.





Mr. Sunil Tripathi, Programme Officer, ENVIS-RP-NBRI demonstrated the educational display related to harmful effects of ozone layer depletion, Montreal Protocol and India's role to implements the Montreal Protocol. He has distributed ENVIS- Newsletters and Brochures to the visitors and students.





More than **300 visitors** have been visited the **ENVIS-RP-NBRI** Stall and shown their interest to in World Ozone Day Brochures and educational display.

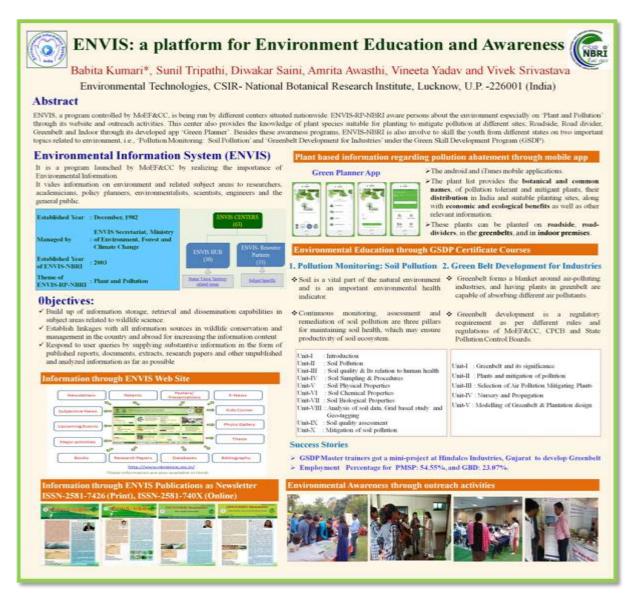




Minister of Panchayat and Rural Development Govt of M.P. **Shri Kamleshwar Patel** and Former Governer of Haryana **Shri Kaptan Singh Solanki** were the chief guests on the valedictory function. He congratulated Bhopal Vigyan Mela organizers for the successful event. CSIR-NBRI secured IIIrd Place in Best Educational Stall Category at the end of the event.

2.7. Indian Science Congress, 3-7 Jan, 2020:

107th Indian Science Congress was held during 3-7 Jan 2020, at University of Agricultural Sciences, GKVK Campus, Bangalore, Karnataka. The theme of this conference was "Science Technology: Rural Development". It was inaugurated by Mr. Narendra Modi, Prime Minister. PM Modi gave the motto of "Innovate, Patent, Produce and Prosper" to the young scientists in the country, saying that these four steps will lead India towards faster development. Dr. Babita Kumari, Co-coordinator, ENVIS-RP-NBRI, presented poster entitled 'ENVIS: a plate form for Environmental Education and Awareness in Environmental Science Division'.



Poster presented by **Dr. Babita Kumari** in **Nation Conference 'ISC-107'**

2.8. ENVIS-RP-NBRI activity during the Rose & Gladiolus Flower Show at CSIR-NBRI on 18-19th January, 2020:

CSIR-NBRI organized its 60th 'Rose and Gladiolus Show' on 18-19th January, 2020 at the institute ground. On the occasion of this two days annual show, **Dr. S.K. Barik**, Director, CSIR-NBRI welcomed the Chief Guest **Dr. Shekhar C. Mande**, DG, CSIR and Secretary, DSIR, Govt. of India. They released the issue of Hindi Rajbhasha magazine 'Vigyan vani' and also distributed 26 running cups/shields/trophies along with 291 general prizes to the winners. ENVIS-RP, NBRI has

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contributed two chapters in this magazine, i.e., '¶ykjkbM % Cli Hklo Vkj mik; 'and 'i; kbj.k I puk ç.kkyh Clk I kekftd; kxnku'. **Dr. Sharmila Mande** wife of Shekhar Chintamani Mande released new variety of Chrysanthemum 'Shekhar' developed by CSIR NBRI. ENVIS-RP-NBRI has also displayed the posters and standees related to its activities and themes 'Plant and Pollution'. **Dr. Vivek Srivastava**, Coordinator, **Dr. Babita Kumari**, Co-coordinator, **Mr. Sunil Tripathi**, Program Officer and **Mr. Diwakar Saini**, Information Officer, ENVI-RP-NBRI interacted with the visitors and briefed the role of plants in pollution abatement.

➤ Picture Gallery:



Registration of visitors



Briefing about the publication of ENVIS-RP-NBRI



Distribution of ENVIS-Newsletters



Briefing about the application of plant to reduce air pollution

3. Green Skill Development Programme:

3.1. GSDP Advertisement on ENVIS-RP-NBRI Website



Link: http://nbrienvis.nic.in/ViewEvents.aspx?Id=5728&Year=2019

3.2. GSDP Advertisement Published in Newspapers:



Dainik Jagran Daily Hindi (Lucknow Edition) on 21.12.2019 (Saturday)

Dainik Jagran Daily Hindi (National Edition) on 22.12.2019 (Sunday)

3.3. Screening-cum-advisory-committee for Green Skill Development Programme (GSDP)

CSIR-National Botanical Research Institute, Lucknow (January 30th, 2020)

S. No.	Name	Designation
1.	Prof. Pramod Tondon	Chief Executive Officer Biotech Park, Lucknow as Chairman ,
2.	Mr. Pankaj Kumar	General Manager (HR) Northern Region Headquarters, NTPC Limited as Co-Chairman
3.	Dr. D.K.Upreti	Emeritus Scientist CSIR-NBRI, Lucknow
4.	Dr. S.K Tewari	Chief Scientist CSIR-NBRI, Lucknow
5.	Mr. Mukesh Mittal	Asst. Vice President (Safety & Environment) Hindalco Industries
6.	Mr. Rajendra Singh	Environmental Engineer U.P. Pollution Control Board Govt. of U.P, Lucknow
7.	Mr. Saurabh Srivastava	Manager Certification & Agro Operations Organic India Pvt.Ltd., Barabanki
8.	Dr. Sitaram Taigor	Environmental Specialist-Ganga U.P State Ganga River Conservation Agency Urdan Development Department Govt. of U.P, Lucknow
9.	Dr. Devendra Kumar Soni	Scientist 'E', Central Pollution Control Board Regional Directorate (North), Lucknow
10.	Dr. Vivek Srivastava	Coordinator (ENVIS-RP-NBRI) CSIR-NBRI, Lucknow as Convenor
11.	Dr. Babita Kumari	Co-Coordinator (ENVIS-RP-NBRI) CSIR-NBRI, Lucknow
12.	Mr. Sunil Tripathi	Programme Officer (ENVIS-RP-NBRI) CSIR-NBRI, Lucknow as Co-Convenor

> Picture Gallery:



Dr. Vivek Srivastava, Coordinator ENVIS-RP-NBRI briefed about the applications received from various part of the country for GSDP Courses to the advisory committee members



Meeting of Screening cum Advisory Committee chaired by **Prof. Pramod Tondon**, CEO Biotech Park



Discussion about the selection criteria with the committee members



Finalization of the list of Selected, waitlisted and rejected candidates applied for the course



Prof. S.K. Barik, Director, CSIR-NBRI during the advisory committee meeting

3.4. Budget Allocation for GSDP Courses:

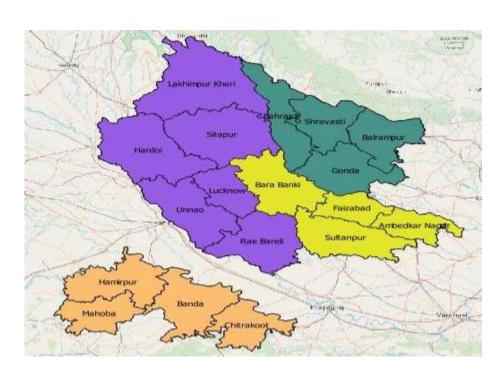
S.No	GSDP Course	Total Amount	Total	Sanction Order	Shortfall, if any
	Sanctioned	Sanctioned	Amount	No. with date	with reason.
		(in INR)	Released		
1.	Plant Tissue	13,75,000/-	NIL	11/7/2019-EI	
	Culture and its			dt. 26/11/2019	
	application				MoEF&CC has
	**				not released the
2.	Pollution	10,10,000/-	NIL	11/7/2019-EI	sanctioned
	Monitoring: Soil			dt. 26/11/2019	budget to
	Pollution				conduct the
					course during
3.	Greenbelt	13,40,000/-	NIL	11/7/2019-EI	2019-20.
	Development for			dt. 26/11/2019	
	Industries				

3.5. Applications received and number of Selected, waitlisted and rejected candidates:

Sl .No	GSDP Course Sanctioned	No. of Applications Received	No. of Selected candidates	No. of Waitlisted Candidates	No. of Rejected Candidates
1.	Greenbelt Development for Industries	57	30	05	22
2.	Pollution Monitoring: Soil Pollution	52	20	04	28
3.	Plant Tissue Culture and its application	78	25	07	46
Total		187	75	16	96

- 4. NATIONAL ENVIRONMENT SURVEY-a Grid based Decision Support System for Sustainable Management of Natural Resources (NES-GRIDSS):
 - 4.1. Districts allotted to ENVIS-RP-NBRI

Sl. No.	Division	Districts
		Banda
	Chitrakoot	Chitrakoot
1		Hamirpur
		Mahoba
		Bahraich
	Devipatan	Balrampur
2		Gonda
		Shravasti
	Lucknow	Hardoi
		Lakhimpur Kheri
		Lucknow
3		Raebareli
		Sitapur
		Unnao
		Ambedkar Nagar
		Amethi
4	Faizabad	Barabanki
		Faizabad
		Sultanpur



4.2. Following 17 modules under NES programme were assigned for the collection of secondary data:

Module No.	Category
1	Administrative
2	Demographic
3	Economic
4	Climate & Disaster Occurrences
5	Natural Resources
6	Water Resource
7	Ecology
8	Infrastructure
9	Agriculture
10	Animal Husbandry & Fisheries
11	Industries& Mining
12	Energy – Stock & Production
13	Pollution
14	Waste
15	Health
16	Heritage, Tourism
17	Funds Allocated For Environmental
	Protection, Resource Management And
	Engagement

4.3. Revised Modules: The no. of modules were reduced from 17 to 8 (as per instructions received from MoEF&CC through email dated 01.11.2019). The list of revised modules are as follows;

Sl. No.	Name	
1.	Administrative	
2.	Demographic	
3.	Economic	
4.	Climate & Disaster Occurrences	
5.	Natural Resources	
6.	Infrastructure	
7.	Waste	
8.	Funds Allocated For Environmental Protection, Resource Management And	
	Engagement	

4.4. ENVIS-RP-NBRI inputs on Indian State Basic Environmental Information Database (ISBEID) Portal

- 1. Secondary Data of District **Lucknow** were collected from different sources from internet and through personal visit to some state departments like Uttar Pradesh Pollution Control Board, Uttar Pradesh Jal Nigam and other relevant departments as per NES guidelines of MoEF&CC.
- 2. All the collected information of District "Lucknow" has been uploaded on ISBEID Portal.

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3. Although rest of the other 18 district data were collected and compiled but not uploaded due to some technical error on portal and the provided link was completely not working since October 21, 2019.

4.5. Issues and suggestions;

- 1. There is no specific manpower for NES related activities.
- 2. Ministry has not provided any kind of budget for the same.
- 3. Uniformity is needed on portal to enter the data for the specific field.
- 4. MoEF&CC may send a prior communication to the district authorities regarding the collection of data by ENVIS team members.
- 5. Portal should be full proof and easy to handle.
- 6. The modules may be constant and finalised by MoEF&CC before entering the data.

4.6. ISBEID (NES Portal) Details;

Previous portal link: http://122.183.99.225/isbn2 (Not working)

New portal link: http://164.100.60.53/isbn2 (Not working)