

ANNUAL REPORT 2019-20



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Longitude: 75.181861
Elevation: 333.08m
Accuracy: 3.2m



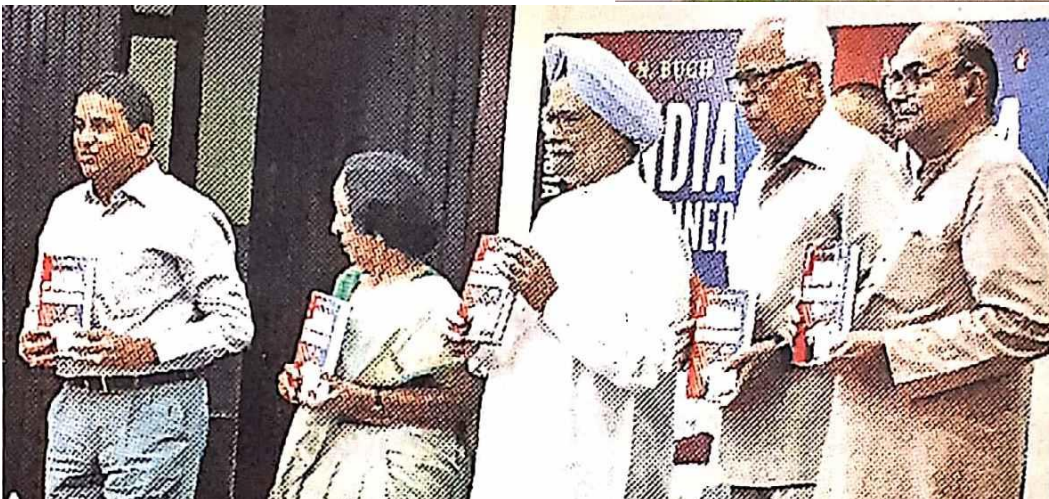
National Centre for Human Settlements and Environment

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1. Introduction

National Centre for Human Settlements and Environment (NCHSE), a non-government organization, was established by Late Dr. M.N. Buch in 1984 with the objective of facilitating participatory sustainable development of human settlements and its people with special focus on the weaker sections of society in order to promote rapid social mobilization and significant economic development.

NCHSE in its formative years has carried out Research, Planning and Monitoring and Evaluation of projects countrywide to bring about an improvement in the socio-economic and cultural profile of the people, both in urban and rural areas. Later NCHSE expanded its domain of activities giving importance to implementation of projects on Watershed development, Natural Resource Management, promotion of the concept of Climate smart villages and sustainable agricultural practices, capacity building of rural women to take up income generating activities and urban youth on GIS application and advocacy for consumer protection focusing mainly in the State of Madhya Pradesh.

NCHSE has completed over 325 projects in the areas of research, survey, planning, implementation, monitoring, evaluation, GIS mapping, software development, training & capacity building, consumer protection, etc. during last 36 years. Its operation now expanded to neighboring state of Rajasthan.

NCHSE being a Telecommunication Regulation Authority of India (TRAI) recognized Consumer Advocacy Group (CAG) for the State of Madhya Pradesh since 2011 is constantly helping consumers in resolving their issues with various telecom service providers through its District Consumer Information Centre.

Various International Organisations like Ford Foundation, UNICEF, UN-HABITAT, DANIDA, ICCO, ILO, Telford Challenge, CASA, UNDP, World Bank, DFID, etc. domestic agencies like Govt. of India, Govt. of Madhya Pradesh, Planning Commission, CAPART, NABARD, HUDCO and Corporate Sectors such as ITC, GAIL, etc. provided extensive support in the implementation of projects to meet the mission objectives of the organisation.

It won the UNEP International Award in 1995 for outstanding achievement in watershed development works. Its achievements have been recognized by other agencies as well. The list of such awards is presented at Annexure-1.

NCHSE is guided by the General Body (GB) and Governing Council (GC) comprised of subject matter specialists. The list of members of GC is at Annexure -2. It provides advisory support to the Chairperson who is the chief functionary of the organization. Director General is the Chief Executive of the organization and is responsible for the overall supervision of the affairs of the organization under the guidance of the Chairperson.

2. Registration Details

Registration: Registered under M. P. Societies Registration Act, 1973, Registration No.13784, dated 19th June, 1984.

PAN : AAATN2922N

TAN : BPLN00396E

GST No. GSTN-23AAATN2922N1ZK

FCRA Registration Number – 063160035

80 G & 12 A – NCHSE is registered with the Income Tax Department as a Trust/ Society under Section 12 A (a) and exempted under Section 80-G (5)(vi) regarding donations made to the Centre.

3. Major Activities during 2019-20

NCHSE is implementing its programme and a project through its headquarter in Bhopal and field offices located in 10 districts of Madhya Pradesh, viz. Ashoknagar, Chhindwara, Damoh, Dhar, Gwalior, Hoshangabad, Mandsaur, Rewa, Sehore, Ujjain and Vidisha and in Kota District of Rajasthan.

Activities during 2019-20 mainly covers under the following sectors:

- Watershed Development;
- Promotion of Improved Agricultural practices;
- Promotion of Climate Smart Community;
- Livelihood Promotion for the poor;
- GIS Application;
- Prevention of HIV / AIDS
- Consumer Protection: Advocacy and Capacity Building
- Urban Governance

This Annual Report presents a glimpse of the organizations' major achievements during 2019-20.

3.1 Integrated Watershed Development Programme:

Watershed development activities are under implementation in 4 districts of Madhya Pradesh, viz. Dhar, Mandsaur, Sehore and Vidisha, and Kota district of Rajasthan, where rain fed/ground water based agriculture is the means of livelihood of the people.

The Integrated Watershed Management Programme (IWMP) in Dhar District is being implemented with support from Panchayat and Rural Development Department, Govt. of Madhya Pradesh, whereas the project in Sehore is being implemented in partnership with ITC and Panchayat and Rural Development Department, Govt. of Madhya Pradesh under Public Private Partnership (PPP) mode. The projects in the districts of Vidisha and Kota are being supported by ITC alone having focused on integrated watershed development and sustainable agriculture.

The main objectives of IWMP supported by Government are to augment irrigation water through rain water harvesting and control of soil erosion. The ITC supported projects have a wider approach and besides water and soil conservation works focuses on promotion of sustainable agricultural practices, biodiversity conservation, other climate smart activities and livelihood promotion activities for the female members of the family through participation in SHGs and financial literacy programme.

3.1.1 Soil & Water Conservation:

- i) **Dhar District (IWMP VI in Tirla Block):** The Project is being implemented in 11 micro watersheds covering 25 villages of Tirla Block of Dhar District since 2012-13. An area of 4,824 ha has been treated so far through soil and water conservation works like Field bunding, boulder check dams, gabion, stop dam, check dam etc. benefitting 514 farmers. Landscape with ridge and furrow enabled rain water collection through construction of check dams and stop dams and bringing an area of 315.28 under irrigation benefitting 598 farmers.
- ii) **Mandsaur District (IWMP II Malhargarh block):** The implantation of IWMP(II) was stated in the year 2011-12 in partnership with State Government and ITC under PPP mode. Malhargarh Block being one of the water deficit areas with subsistence agricultural practices was selected to improve the livelihood of the people through watershed development approach and improved agricultural practices. The project area covers 6 micro watersheds across 12 villages covering over 4,700 ha area. During 2019-20, ponds, recharge ponds and dug wells were constructed through leveraging funds from Government schemes, and thus expanding irrigation area by 47 ha benefitting 33 farmers (Table 2). With ITC support, 4 training and 18 Awareness programme on improved agricultural practices were also organized wherein 894 farmers participated.
- iii) **Sehore District (IWMP and Climate Smart Practices (CSP) in Kolans River catchment):**
 - (a) **IWMP VIII and promotion of CSP in Sehore Block:** The project titled” Integrated Development of Natural Resources through Watershed Management and Improved Sustainable Agricultural Practices” is being implemented in 11 villages, viz. Dhabela, Kishanpura, Kulanskhurd, Kulanskalan, Sikandarganj, Barbakhedi, Khedli, Chainpura, Napli, Hirapur and Alampura in Sehore block of Sehore district since 2014-15. During 2019-20, four new villages namely Tilakhedi, Nandni, Kharpa, Kharpi were added under the project and climate smart practices were introduced in all the 15 additional villages. The area forms a part of the drainage basin of the Kulans River. Before the initiation of the project in 2014-15, only 45% of the area was irrigated, mainly by ground water extraction. So far, an area of 1160 ha has been treated for soil and water conservation and an area of 403 ha was brought under irrigation benefitting 455 farmers.
 - (b) **IWMP IX and promotion of CSP in Sehore and Ichhawar Blocks:** Integrated Watershed Management Programme is being implemented in 13 villages under 8-gram panchayats namely Sohankheda, Muada, Semli jadid, Bawadiyano Nawabad, Eintkheda, Shikarpur, Emlikheda and Dhamankheda of Ichhawar and Sehore blocks of Sehore district since 2017-18. During 2019-20, forty six villages of Sehore and Ichhawar blocks were added to promote CSV practices. Agriculture in the area is either entirely dependent on rains or ground water-based irrigation. Nearly three fourth of the cultivated land is irrigated and one fifth land are un-irrigated. Therefore, the area faces additional problems of ground water depletion and soil erosion. Accordingly, water and soil conservation measures on watershed basis, sustainable agricultural practices and livelihood improvement programmes are being implemented under the programme since 2017-18. So far, an area of 2106 ha has been treated for soil and water conservation and an area of 124 ha has brought under irrigation benefitting 231 farmers.

- iv) **Bhopal District (Climate Smart Practices (CSP) in Kolans River catchment):** During 2019-20, Climate Smart Practices were started in 24 villages of Phanda Block.
- v) **Vidisha District (Gyaraspur Block):** The project titled “Integrated Development of Natural Resources and Improved Sustainable Agricultural Practices” is being implemented in 14 villages of Gyaraspur block of Vidisha district since 1st October, 2015. So far, an area of 2600 ha has been treated for soil and water conservation and an area of 619 ha has been brought under irrigation benefitting 386 farmers.
- vi) **Kota District of Rajasthan (Digod, Ladpura and Sangod blocks):** The Project titled "Sustainable Agriculture Practices through Farmer Field School Model in Digod, Ladpura and Sangod blocks of Kota district of Rajasthan is being implemented since 1st October, 2014. It covers an area of 27809.96 ha in 50 villages. It aims to bring about a catalytic change in the livelihood of farmers, especially poor and marginal, through capacity building of farmers for increasing agricultural production, and improving water availability for irrigation during the dry season and providing technology and equipment. During 2019-20, an area of 450 ha was treated for soil and water conservation and an area of 111 ha was brought under irrigation benefitting 202 farmers (Table 1 &2).

Table 1: Catchment Area Treatment activities completed during 2019-20

District	Area treatment (ha)		Beneficiary/Farmer	
	During 2019-20	Since inception	During 2019-20	Since inception
Mandsaur	0	550	0	250
Dhar	910	4824	120	484
Sehore & Bhopal (IWMP-VIII)	214	1160	56	566
Sehore & Bhopal (IWMP-IX)	1,838	2106	319	484
Vidisha	886	3486	188	781
Kota	450	2616	128	657
Total	4,298	14742	811	3222

Table 2: District wise water storage and irrigation potential created since inception

District	Storage capacity (M ³)	Irrigation potential created (ha)	Beneficiary /Farmer
Dhar	437,610	315	598
Mandsaur	461,748	309	263
Sehore (IWMP-VIII)	201,500	403	455
Sehore (IWMP-IX)	61,812	124	231
Vidisha	357,008	715	450
Kota	58,472	111	74
Total	1,578,150	1977	2071

Table 3: District wise water conservation activities completed during 2019-20

District	Stop dam (Number)	Check dam (Number)	Earthen Dam (Number)	Irrigation Tank (Number)	Farm /recharge pond (Number)	Pond cum Well/Well (Number)	Storage capacity (M3)	Irrigation potential (ha)	Beneficiary /Farmer
Dhar	0	17	0	0	0	0	1,78,883	119	120
Mandsaur	0	0	0	0	5	5	32,748	47	33
Sehore (IWMP-VIII)	1	4	0	2	0	0	31542	63	39
Sehore (IWMP-IX)	0	0	0	0	0	0	0	124	231
Vidisha	3	0	4	0	0	0	89,677	179	64
Kota	0	0	0	11	15	0	58,472	111	74
Total	4	21	4	13	20	5	291,323	643	561

Soil and Water Conservation Works

*LBS at Mawdipura
Block Tirla, Dist. Dhar*



*Check Dam at Khirkiya
Kalan, Block Tirla,
Dist. Dhar.*

Latitude: 22.459807
Longitude: 75.181861
Elevation: 333.08m
Accuracy: 3.2m

*Farm Pond for irrigation
and fisheries at village
Chainpura, Dist. Sehore.
Water Storage Capacity
3281 Cum.
Command Area 6.57 ha.*





*Farm Pond for irrigation at
village Dhabla,
Dist. Sehore.
Water Storage Capacity
9039Cum.
Command Area 18.08 ha.*



*Kapildhara kup (well) constructed
under MGNREGA at Gogarpura
village Mallhargarh block,
Mandsaur district.*

3.1.2 Climate Smart Sustainable Agricultural Practices:

The programme aims to make the agriculture sustainable through adoption of technologies and practices that are environment friendly and appropriate to the changing climatic conditions. It aims to tackle three main objectives: sustainably increasing agricultural productivity and incomes; adapting and building resilience to climate change; and reducing and/or removing greenhouse gas emissions, where possible.

The programme includes introduction of new /appropriate technologies like Broad Bed Furrow (BBF), zero tillage, introduction of new seeds to replace the less productive or less suited to the changing environment, environment friendly inputs, micro irrigation system to improve water use efficiency, etc and being implemented with participation of farmers of Farmer Field Schools (FFS) constituted in project villages. Capacities of the farmers are being enhanced through training and exposure visits to Agricultural Research Institutions and relevant organisations to have a first hand information about the new / latest techniques/ practices. Farmers also get weather alert through mobile linkage under this initiative. District wise coverage and technological interventions are presented in the Table 4 & 5.

Table 4: Participation & coverage of Climate Smart Sustainable Agricultural Practices

District	No of villages	No of farmers	Area(ha)
Sehore	28	2,716	14,121
Bhopal	24	1,834	11,052
Vidisha	12	1,226	5,028
Mandsaur	12	252	748
Kota	50	1,337	4,983
Total	126	7,365	35,932

Table 5: Sustainable agricultural practices undertaken in various districts during 2019-20

Activity	Sehore		Bhopal	Vidisha	Kota
	IWMP-VIII	IWMP-XI			
Demonstration plot (ha)	8	12	19.2	10	44.0
Seed replacement (ha)	199	93.2	228.8	230	463.6
BBF (Wheat & Soybean) (ha)	306.4	77.2	60.4	96	4,125.5
Zero Tillage (ha)	12	0	0	182	627.2
Direct Seeded Rice cultivation	0	0	4	0	304.4
Micro irrigation (ha)	7	10	0	350	1,232.0
Total	532.4	192.4	308.4	868	6,796.7

Improved Agricultural Practices



Zero Tillage Practice



Zero budget natural farming



Demo plot for application of BBF Technology for wheat cultivation at Jetpura village, Mandsaur District.



Rice cultivation by direct sowing of seeds, Kota , Rajasthan

Capacity Building of farmers for improved agricultural practices



Training of farmers for the promotion of Zero budget natural farming



Training program in IISR, INDORE on Broad bed furrow and Zero Tillage Technology

3.1.3 Conservation of Biodiversity:

Plantation of local tree species on farmer's field and on community land are being done each year with community participation for the conservation of biodiversity in the area. The pasture/common land development in 3 Villages viz. Dhoti, Khushalipura and Ramnagar in Kota District is a stand out example of community asset management and biodiversity conservation with community participation. Plantation/ pasture development work during 2018-19 are presented at Table 6.

Table 6: Plantation for Biodiversity Conservation

District	Number of Species (2019-20)	Saplings planted (Number) (2019-20)	Area covered (Ha)	
			2019-20	Since inception
Mandsaur	0	0	0	50
Sehore (IWMP-VIII)	1	20,000	1 (#)	20
Sehore (IWMP-IX)	11	20,000	23	23
Vidisha	0	0	0	4
Kota	9	1,000	16	66
Total	21	41,000	40	163

Note: # = Plus line showing along Kolans River

3.2 Transformation of Agriculture Sector of Aspirational Districts in Madhya Pradesh:

ITC has collaborated with NITI Aayog as technical partner to improve status of agriculture and allied sectors in 27 Aspirational districts spread over eight states of India. The Programme in Madhya Pradesh is being implemented by National Centre for Human Settlements & Environment since 2018-19.

The objectives of the project are to develop capacities of block level government extension officials of Vidisha and Damoh districts as Master Trainers in - domain knowledge and training techniques in the area of - standard package of practices for agriculture and livestock development and Government scheme realisation and through them build capacities of village level department personnel and farmers with a cascade approach. The master trainers will in turn train Gram Panchayat/Village level department staff, referred to as Village Resource Persons (VRP), so that they can train farmers effectively.

VIKSAT (Ahmadabad based organisation) as the training partner has developed training module for standardize package of practices (PoP) on wheat, gram and other crops which was further discussed with Agricultural scientists from Universities, Krishi Vigyan Kendra (KVK) and Agriculture Department officials of Madhya Pradesh, Rajasthan, Utter Pradesh and Maharashtra at a workshop in IIFM Bhopal organised during 30-31 August 2018.

Brief India Pvt. Ltd., conducted agriculture practices and farm economics survey in Vidisha and Damoh districts to understanding the socio-economic and demographic context of the rural farming communities. Productivity of major crops, cost cultivation, cropping intensity and availability of crop insurance coverage among the rural agricultural communities, current productivity of milch animals, practices followed and service providers for such practices. Identifying the awareness level of the farmers about agriculture and related government schemes. All these survey reports were submitted to District Collectors.

During the year training programmes and exposure visits were also organised to help farmers to adopt appropriate PoP of various crops suitable for the area. The list of such programmes and the beneficiaries are provided at Table 7.

Table 7: Training & capacity building programmes for different target groups during 2019-20

Activity	Subject	Target Group	No of training Programme	Number of Beneficiary
Krishi Kalayan Abhiyan	Different Government schemes. Construction of NADEP, PoP on wheat	Farmers	Continuous process of information dissemination	11366
Master Trainer Training	PoP on wheat and Soybean	Block level officers of Agriculture department	04	103
VRP Training		RAEO	02	61
Farmers Training		Farmers	1121	24746
Training of FFS Farmers		Farmers	100	2500

Leveraging of funds from the Government Schemes: Creating awareness among the farmers and linking them with government schemes resulted in significant mobilisation of funds/inputs to enhance agricultural production and income of farmers (Table 8).

Table 8: Leveraging of funds (Rs in Lakhs) from various Govt. schemes in Aspirational districts during 2019-20

S. No	Activity	Unit	Achievements in Districts				Scheme
			Vidisha		Damoh		
			Quantity	Amount	Quantity	Amount	
1	Quality seed distribution	Kg	10,176	5.09	58,096	23.24	NFSM, Suraj Dhara, Annpurna, beej gram
2	Farm Pond	No	22	35.20	34	54.40	MGNREGA
3	NADEP	No	76	9.50	6	0.42	MGNREGA
4	Animal Vaccination	NO	12,056	6.03	3,764	1.88	National Artificial Insemination Program
5	e- NAM registration	NO	4,691	0	3,524	0	e-NAM
6	Sprinkler set	NO	116	34.80	243	58.32	PMKSY
7	Artificial Insemination (AI)	NO	100	0	1,756	5.27	National Animal Disease control Program
8	Soil Health Card	NO	1,255	0	3,795	1.90	Soil Health Card Scheme
9	Kisan Credit Card (KCC)	NO	0	0	82	0	KCC Scheme
10	Solar Pump	No	21	147.00	11	27.50	CM Solar Pump Scheme
11	Crop insurance	NO	2500	0	2400	0	PMFBY
12	Seed Drill	No	14	5.88	5	2.25	Agriculture mechanization

S. No	Activity	Unit	Achievements in Districts				Scheme
			Vidisha		Damoh		
			Quantity	Amount	Quantity	Amount	
13	Rotavator	No	2	2.30	1	1.00	Agriculture mechanization
14	Chapkter	No	0	0	0	0	Agriculture mechanization
15	Well	No	8	16.80	0	0	MGNREGA
16	Spray Pump	NO	1	0.004	0	0	Agriculture mechanization
17	Nandan Phal Udhyan	NO	1	1.60	20	32.00	MGNREGA
18	Krishi Yantra	NO	0	0	53	212.00	Agriculture mechanization

3.3 Financial Literacy and Capacity Building Programme in Madhya Pradesh:

ITC Limited and Madhya Pradesh State Rural Livelihoods Mission (MPSRLM) entered into an agreement for the implementation of a dedicated “Financial Literacy Programme” in 43 identified Districts of Madhya Pradesh in 2017-18.

The objective of this partnership is to strengthen the implementation capability of the MPSRLM through technical assistance from ITC and CRISIL and implementation support from NCHSE. The key principle behind this arrangement is to create an ‘enabling environment’ for sustaining good financial habits and practices within women SHGs and enhance the capability of human resource mainly the CRPs (Community Resource Persons). All the new, revived and pre NRLM SHGs which are currently under MPSRLM are being covered under this Project. CRISIL being the knowledge partner provides training for the Super Trainer and Master Trainers selected by the MPSRLM. NCHSE provide support with respect to coordination with concerned agencies, imparting training of Trainers, SHGs/VRPs and project monitoring.

Starting with Vidisha district in 2017-18, the programme implementation expanded to 15 districts during 2018-19 and further to 26 districts during 2019-20. In coordination with DPM and DFM, MPSRLM, NCHSE team organized training of Super Trainers at District level, Master Trainers at Block level and SHG members at village level. By the end of March 2018, a total of 6,19,823 members of 65,623 SHGs in 82 blocks of 15 districts were trained. During 2019-20, a total of 592 super trainers of 15 new districts and 1,657 Master Trainers in 112 Blocks of 20 districts were trained. These Master Trainers of 20 districts further trained 1,35,206 women members of 13,098 SHGs in 1,892 villages of 20 districts.

Table 9: Training & capacity building of SHG members during 2019-20

Parameter	Achievements (Numbers)		
	FY- 2018-19	FY- 2019-20	Cumulative
Districts Covered	11	15	26
Blocks Covered	74	90	164
Villages Covered	765	1,892	2,657
Super Trainer trained	470	592	1,062
Master Trainer trained	935	1,657	2,592
SHGs covered	6,169	13,098	19,267
SHG Members trained	59,227	135,206	194,433
Women having individual bank accounts	47,119	93,024	140,143
Women covered through insurance (PMSBY/PMJJY/Other)	29,009	69,432	98,441
Women having Saving/Investment A/c (RD/FD/SSY/PPF)	2,734	6,023	8,757
Women HH covered under Pension schemes (APY/NPS)	3,290	5,163	8,453

3.4 Initiatives towards Socio-economic Transformation of Rural Women:

NCHSE is continuously promoting Socio-economic transformation of rural women through facilitation of formation of SHGs and their capacity building. This is a common feature of its all implementation projects related to watershed development, Livelihood Promotion, Agricultural Sustainability, specially focused projects for women empowerment, etc.

i. Empowerment of Women in Hoshangabad district with NABARD support:

NCHSE has long association with NABARD in implementation of projects on economic empowerment of women. At present it is implementing projects in 4 blocks namely Babai, Sohagpur, Piparia and Bankhedi of Hoshangabad district.

During 2019-20, it continued its hand holding support to 250 SHGs having 2545 members. The savings accounts of all 250 groups were opened in 31 national and regional banks of the project area. So far, Rs 18.69 lakh has been saved by these groups. At present all 250 groups are doing internal transactions and internal loans of Rs. 7.75 lakh have been distributed among the members of the groups. First credit linkage of 126 SHGs, 2nd credit linkage of 38 groups have been done. A total of Rs. 204.29 lakh has been sanctioned as loan, i.e. Rs. 135.04 lakhs in the first credit linkage and Rs. 69.25 lakh loan in the second linkages, of which more than Rs. 110 lakh loans have been returned to the banks by the groups. The loans received by the groups under this project were used for various activities like vegetable production, animal husbandry, poultry, farming, grocery stores, and other income earning activities, helping the members of some groups to improve the existing business. Some group members also used the loans for personal purpose of their family, including their contingency needs such as illness, children's studies, marriage and other programs. Outcome of project is

satisfying as the living standards of the families of women / men associated with self-help groups have improved significantly.

ii. Digitization of SHGs in Vidisha District under NABARD supported E-shakti project

An ongoing project being implemented since 2017-18. The trained animators are collecting, balancing, authenticating and feeding base/master data monthly for 49 functional SHGs in the district through mobile App.

iii. Empowerment of Women under ITC supported projects during 2019-20:

- a. In Vidisha district, 35 SHG members were trained on handicraft activity under RSETI (State Bank of India) Programme. 4 SHG availed external loans of 5.00 lakh from Banks and other sources.
- b. In Sehore district, 83 members availed internal loans of Rs 4.64 lakh and 69 members availed external loans of Rs 13.01 lakh from Banks and other sources. Out of the total 481 members, 271 have started income generating activities.
- c. In Kota district, 53 new SHGs were formed and 603 new members joined them, thus making the total SHGs to 146 with 1657 members. 234 members availed internal loans of Rs 8.2802 lakh and 146 members availed external loans of Rs 19.12 Lakhs from Banks and other sources. During the year 6 members have started income generating activities. Capacity building programmes resulted in members of SHGs enrolling themselves for various social sectors schemes like PMJDY, PMSBY, PMJJBY, APY, PM Kisan Samman Nidhi, Widow Pension etc.

Table 10: Financial inclusion of SHG members in project districts during 2019-20

Parameters	UOM	Kota	Bhopal & Sehore	Vidisha
Individual bank accounts	No.	603		530
Pradhan Mantri Jan Dhan Yojana (PMJDY)	No.	70		0
Pradhan Mantri Suraksha Bima Yojana (PMSBY)	No.	1002		429
Pradhan Mantri Jeevan Jyoti Yojana (PMJJY)	No.	387		50
Pension funds (APY)	No.	36		68
Pension funds (Anas dai)	No.		02	
Pension funds (Vidhava)	No.		30	
Pension funds (Viklaang)	No.	387	06	
Pension funds (Vridhavastha)	No.	36	23	

Capacity building of Women SHG members



SHG members with insurance papers



Capacity building of SHG members under Financial Literacy Programme



Mobile banking for SHG members

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3.5 Application of GIS and Remote Sensing:

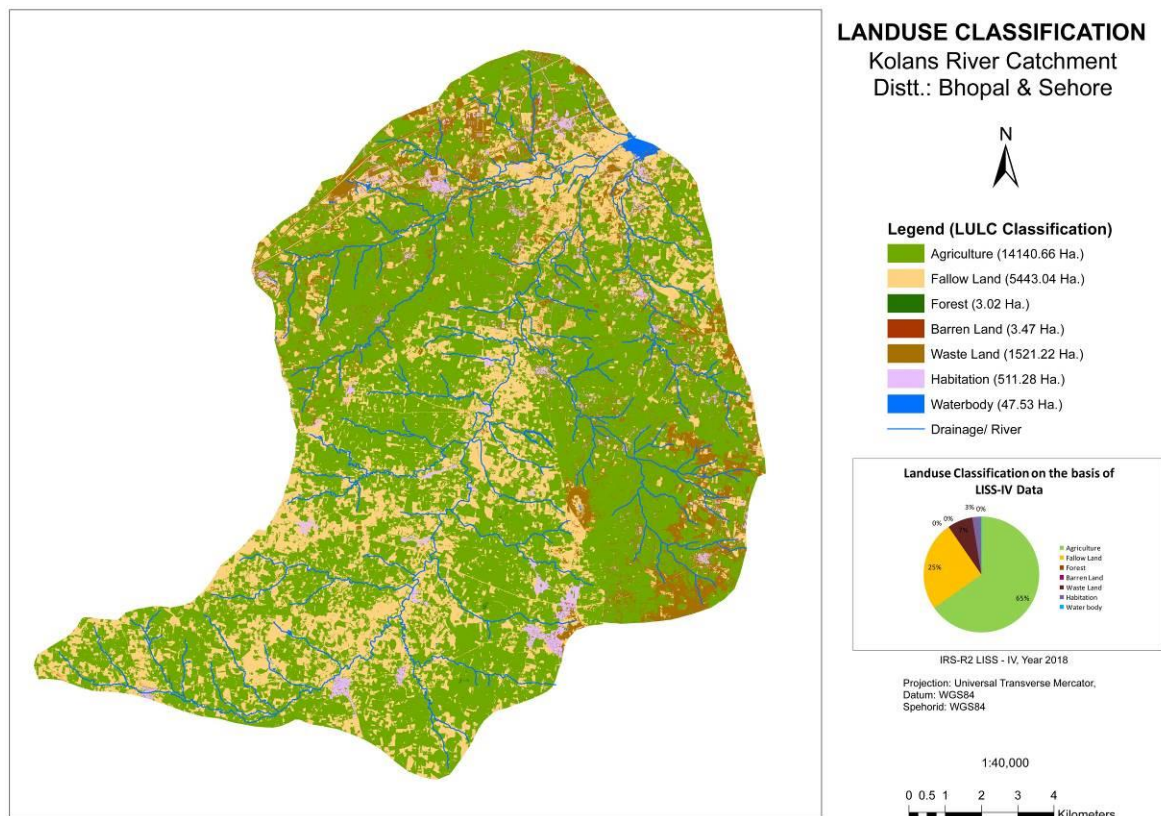
NCHSE has a computer laboratory equipped to undertake GIS and Remote Sensing technique based assignments. The centre is constantly engaged in carrying out GIS mapping for implementation projects especially related to watershed management, agricultural sustainability, etc. GIS techniques have been used in preparation of thematic maps like Base map, Drainage and Contours, Land use/ Land cover, Irrigation, Cropping pattern, Soil type, ownership, Slope classification, and Action plan map. In fact, GIS and Remote Sensing have immensely helped in appropriate planning, monitoring, documentation, impact assessment and analysis.

NCHSE is also providing GIS and Remote Sensing Applications support to other organizations (NGOs, Govt. departments, corporate sectors, technical institutions, etc.) in implementation of their projects. During the year it provided technical support for the following projects:

i. **Mapping of water harvesting structures, their catchment and Command Areas in Madhya Pradesh:**

The services for mapping locations of each water harvesting structures, their catchment and command area with GPS coordinates and linking them with cost and beneficiary for all ITC supported projects were provided for the ITC supported project areas in Sehore district.

Land use map for ITC factory catchment area was also prepared to find out the actual land use under agriculture, wasteland, fallow and others and the potential areas for water and soil conservation including plantation activities.

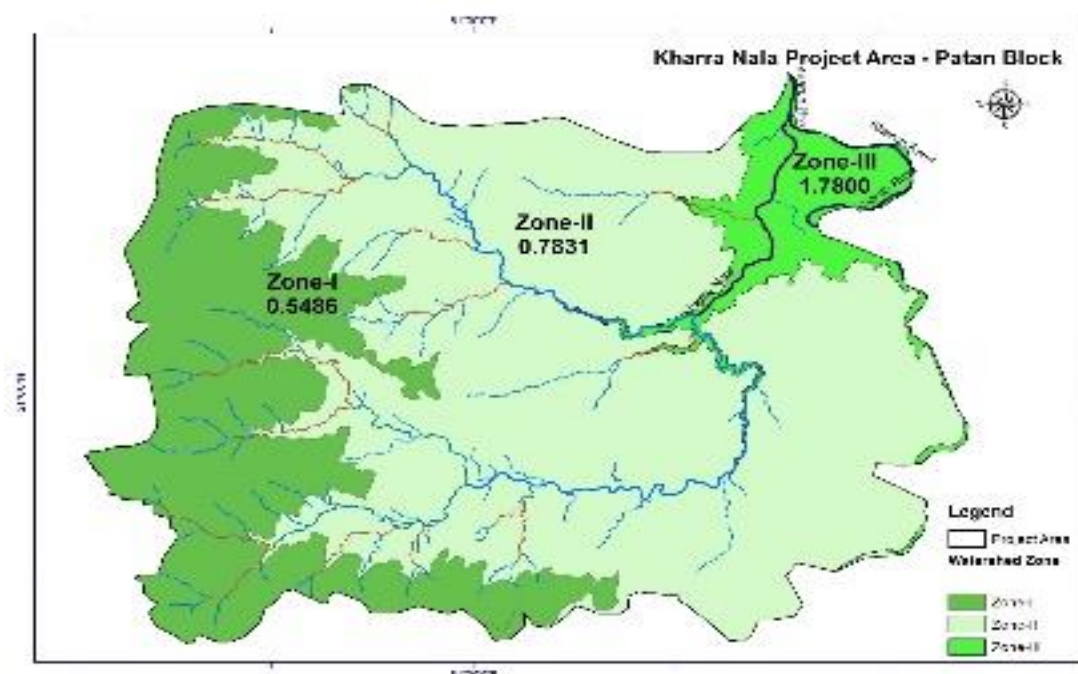


ii. Monitoring and documentation of watershed development structures in Various states in India through GIS App and Web GIS portal developed by NCHSE for ITC:

NCHSE has developed MSK GIS APP and Web GIS portal for ITC to locate, monitor and update its activities being supported in different states in India. GIS Software developed provides a centralized database repository system to fetch and store the data including Geographical reference. Software also has many significant features like online powerful analysis, search, Geo-tagging with data, query and easy access to data along with digital maps over virtual data. It helps in generating analytical reports for monitoring purposes with project summary. This App has the capacity to work on both online as well as offline mode. This App and the portal are being used for monitoring all ITC supported watershed projects in India.

iii. Preparation of a Road Map for Ground Water Security & Sustainability as a part of Action Plan for Kharra Nala, Block Patan, District Durg, Chhattisgarh :

NCHSE provided technical support and services to WatsanCAD Solution, Bhopal (Technical agency of Madhya Pradesh/Chhattisgarh in planning of multi village rural drinking water supply) for the preparation of an Action Plan for Ground Water Security & Sustainability adopting Scientific approach (Watershed approach using Remote sensing & GIS application) in the catchment of Kharra Nala, Block Patan, District Durg, Chhattisgarh which has been submitted to Chhattisgarh Government.



iv GIS Training:

NCHSE regularly conducts 45 days long training programme on GIS Application & Operations. The objective of the programme is to enable the participants to apply GIS techniques in many different ways to project planning, implementation, monitoring and impact assessment. During 2019-20, 3 training programme were organized in which 44 persons participated.

3.6 Targeted Intervention in Urban Areas of Ujjain District for the Prevention of HIV/ AIDS

NCHSE is facilitating this project (TI) since October, 2008 for prevention of Human Immune Deficiency Virus/ Acquired Immune Deficiency Syndrome (HIV/AIDS) amongst female sex workers. The objective of this project is to ensure safe sexual practice among female sex workers through behavioral change communication for reduction of vulnerability of HIV infection.

During the year 2019-20, project staff reached out to the new Female Sex Workers (FSWs), which were brought under targeted intervention project. The project provided medical support to the target groups through Integrated Counseling and Testing Centre (ICTC), Ujjain. Community based screening of 35 FSWS and HIV testing for 1356 were also conducted.

On the occasion of World AIDS day (1st December 2019), a weeklong event of 5 workshops on the prevention of HIV/AIDS were organized in five colleges of Ujjain city.

Project staff remained very active when CORONA epidemic started during the first quarter of 2020. They along with Anganwari workers, participated in a survey to prepare a list of persons having cold, cough and fever. During lockdown, they participated in distribution of food packets provided by Vaisnabh Society to the HRG and other needy people. Two Peer Educators provided free services at the OPD at Madhav Nagar COVID Isolation ward.

3.7 Consumer Protection Initiatives:

3.7.1 District Consumer Information Centre (DCIC):

NCHSE being a Telecommunication Regulation Authority of India (TRAI) recognized Consumer Advocacy Group (CAG) for the State of Madhya Pradesh since 2011 is constantly helping consumers in resolving their issues with various telecom service providers through its District Consumer Information Centre established in 2001. The main functions of DCIC are –

- Proper guidance and counselling to aggrieved consumers;
- Protecting interests of the consumers and get them relief through initiating correspondence with the service providers, shops, dealers, etc.
- Registering the cases of consumers in the Consumer Redressal Forum and pursuing it with the competent authorities (apex bodies), if needed.
- Information dissemination and general awareness amongst the consumers about their rights and responsibilities.
- Organising Consumer Awareness programme from time to time.

NCHSE's association as a CAG member with Telecom Service Providers (TSPs) like Reliance Communications, Tata Teleservices, Vodafone, Idea, Aircel, BSNL, Jio Reliance etc. has succeeded in getting prominence in resolving the issues of Telecom Consumers at several platforms. In fact, there is increasing awareness amongst consumers towards telecommunication services and about TRAI initiatives in this regard. With merger and takeover of TSPs, at present DCIC is serving as the focal point for resolution of consumer grievances with TSPs like Reliance Jio, Vodafone and Airtel. These service providers are accelerating their efforts as a result of proactive role of TRAI and NCHSE.

DCIC also organises consumer advocacy programme for the telecom users. During 2019-20, it organized following Consumer Advocacy programme with TRAI support for the rural consumers of Madhya Pradesh:

- On 29th August, 2019 at Village Manora, Block : Gyaraspur, District : Vidisha
- On 17th September, 2019 at Barkheda Baramad Gram Panchayat of Berasia Block, District: Bhopal
- On 19th December, 2019 at Aankhmau Gram Panchayat of Babai Block, District: of Hoshangabad.

Consumer protection Act-1986 was replaced by an Act of 2019, after 33 years, and to aware the consumer about the changes and improvements, a pamphlet entitled उपभोक्ताओं के लिये वर्ष 2019 क्यो रहा विशेष was prepared for distribution on the occasion of International Consumer Protection Day,15th March,2020 but this could not be done so because of COVID 19 epidemic.

With an object/aim to improve the quality of services and transparency in tariff in Telecom Sector, TRAI issued consultation papers time to time to invite views of stockholders. NCHSE submitted comments to TRAI on these consultation papers. Such views/Comments may help TRAI to issue fresh Regulations/instructions to TSPs for better service to consumers.

With a declaration by TRAI in section 2018 that T.V. viewers can select channel of their own choice instead of package, NCHSE was advised to deal with the problems of T.V viewers also. DCIC succeeded in solving the problems of consumers through cable operators/DTH operators to some extent.

3.7.2 Advocacy for Adopting Rode Safety Norms:

Government of India enacted the Motor Vehicle Amendment Act 2019, which became effective on 1st September 2019. It replaced the Motor Vehicles Act 1988 which came into force in 1989, being 30 years old required amendment to improve road safety. In the new Motor Vehicles Act 2019 around 89 provisions include increase in penalty related to risk factors such as drunk driving, over speeding, helmet wearing, seat belt and child restraint, culpability of parents of juveniles for violation of rules, provisions for the electronic monitoring and enforcement of road safety, good Samaritan provisions etc. are included to strengthen the road safety. During 2019-20, NCHSE in partnership with Consumer Voice organized the following events to sensitize stakeholders about the new act:

- **18-19th September 2019:** Attend Meeting on Road Safety at Lucknow on 18-19th Sept 2019



- **7th November, 2019:** Road Safety workshop towards sensitization of stakeholders for implementing Motor Vehicles Amendment Act (2019) at Indore
- **19th November, 2019:** Road Safety workshop towards sensitization of stakeholders for the implementation of Motor Vehicles Amendment Act (2019) at Gwalior

3.7.3 World Earth Day Celebration, 22nd April 2019:

On the occasion of Earth Day, Resource Centre for Environmental Protection, Water Conservation & Climate Change under NCHSE organized a discussion session on “Protect and Save our Species”. The event marks the formal beginning of activity of the Centre, established by National Centre for Human Settlements & Environment (NCHSE) to educate young youths about our planet, its various components, their interrelationships and impact of human activities on these interrelationships and to help youths/ young learners in becoming environmentally knowledgeable and, above all, skilled and dedicated human beings who would work, individually and collectively, toward achieving and/or maintaining a dynamic equilibrium between the quality of life and quality of the environment.



On this occasion expert expressed their views about biodiversity conservation.



Dr. G.S.Kaushal, Former Director, Agriculture spoke about protecting soil micro flora and fauna for sustainable agriculture. Dr. Sudesh Waghmare, Former Deputy Director, Van Vihar and Deputy Conservator of Forest explained the inter relationship between soil, vegetation, herbivore and top carnivores like tiger in the ecosystem He stressed the need to educate the politicians about inter

relationship of various components of environment so that they could take proper decision for protecting our environment. Dr. Sangeeta Rajgir, Member Secretary, Bhopal Birds provided information about birds of various water bodies of Bhopal. Shri Dilsher Khan spoke about the importance of Vulture in ecological pyramid and highlighted the need for their protection.

Mrs. Buch while concluding the discussion said that understanding the interdependence and competing claims of various living beings is necessary to facilitate sustainable development and stressed upon the need for launching a movement to make all people understand this. Teachers, students, representatives of NGOs and citizens of Bhopal participated in the event.

3.7.4 Cow Based Organic Food Festival (1-3 February 2020):

This programme was organised in partnership with a Farmers Group of Berasia Baramad during 1-3 February 2020 at Arera Farms, Gulmohar

Colony, Bhopal. The objective of this event was to create confidence among consumers to use cow based chemical free organic food, convince them to adopt healthy consumption habit and to popularise the concept of Family Farmer in line with Family Doctor.

Organic food producers (Farmers, FPOs and packaged food producers/distributors) from Bhopal, Dewas, Khandwa, Harda, Hoshangabad, Raisen, Sehore, Betul and Vidisha districts participated. Visitors purchased green and fresh vegetables and fruits, wheat, rice, varies of pulses, millets (kodo, kutki) and their products, high protein maize, herbal products, spices etc. Herbal product, alternative to tea, liked and procured by many. Readymade facilities for roof top kitchen gardening and accessories like vermin compost, compost rich ready mix for growing vegetables and flowers were on display. Both sellers and the buyers were happy having sold or bought the product they liked.

Big attraction for the event was the food prepared in rural style kitchen. People enjoyed its taste. At the closing session of the event while addressing the farmers, organic food producers, and the visitors Dr. G S Kaushal, Former Director, Agriculture, Govt of Madhya Pradesh highlighted the need for adopting Cow based chemical free food and for this we have to adopt the Family Farmers like Family Doctor so that constant supply of organic food maintained for the urban dwellers.

30 farmers/producers participated and more than 4000 people visited the stalls and procured products of their or just enjoyed the food came out of the rural kitchen.

3.8 Mahesh Buch Remembrance Lecture, 2019:

On the occasion of first death anniversary of Late Shri Mahesh Nilkanth Buch, Shri Pradip Krishen, Environmentalist, Writer and Film Maker delivered a talk on “Bringing in The Jungle” on 6th June 2016. Shri Sopan Joshi, Environmentalist delivered the 2nd Mahesh Buch Remembrance Lecture titled "Our Environment – Others Environment" on 6th June 2017. Third Remembrance Lecture on “Inclusive and Sustainable Development in India: Challenges and Opportunities” was delivered by Dr. Aromar Revi, Director, Indian Institute of Human Settlements, Bangaluru 6th June, 2018.

On 6th June 2019, Shri Farhad Contractor, Environmentalist, Executive Secretary & Trustee Sambhaav Trust, Ahmadabad delivered the 5th Mahesh Buch

Remembrance Lecture on the topic “Revival of sustainable ecological models for the next generation”. Dr. Suhas Kumar, Former PCCF, Madhya Pradesh Chaired the session.

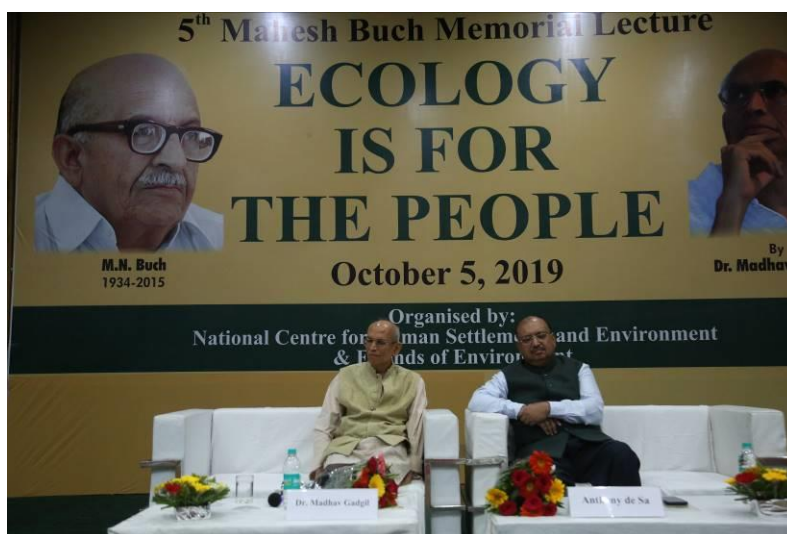


3.9 Third Mahesh Buch Memorial Lecture, 2019:

Mahesh Buch Memorial Lecture instituted by NCHSE in 2015 is being organized on 5th October, the birth day of Late Dr. Mahesh Nilkanth Buch. Prof. Ashoke Chatterjee, an eminent Design expert, former Director, National Institute of Design (NID), Ahmadabad and former President, Crafts Council of India had delivered the first Lecture on 'Design as tool for economic development in India' in Bhopal on 5th October 2015. The Second Buch Memorial Lecture on "Understanding Black Money in India" was delivered by Dr. Y.V. Reddy, Former Governor of RBI on 5th October 2016. The Third Memorial lecture on "Challenges of Governance in India" was delivered by Sir Mark Tully, Former Chief of Bureau, BBC in India on 5th October 2017. Fourth Lecture on "Globalisation and its impact on Indian farmers" was delivered by Dr. Yoginder K Alagh, an eminent Agricultural Economist, the Chancellor of Central University Gujarat, and the former Union Minister of State (Independent Charge) for Planning and Programme Implementation, Science, Technology and Power, Member Planning Commission, Secretary to the Government of India, Chairman, Agricultural Prices Commission (APC) and Vice-Chancellor, Jawaharlal Nehru University on 5th October, 2018.

Fifth Lecture was delivered by renowned environmentalist Dr Madhav Gadgil on the topic "Ecology is for the People" on 5th October 2019. Expressing concern over the development agenda being promoted by the state governments without consideration of wellbeing of the local community, he called for identification and conservation of the environmentally sensitive areas and advocated for empowerment of the local communities for nurturing the natural resources in a sustainable manner. He also stressed upon the need for conservation of community forest resources. He said that there is a significant opportunity to move forward, for our Ecology, Economy, Society, Democracy.

Chairing the session, former Chief Secretary and current Chairman, Real Estate Regulatory Authority of MP Shri Anthony de Sa endorsed the views of the Dr. Gadgil and said the urban development is a necessity and the demand for raw materials to sustain the development is obtained from the rural and forest areas which leads to exploitation of natural resources, sometimes without application of mind or total disregard to sustainable development



principals. It is therefore necessary to adopt a mechanism of checks and balances.

3.10 Launch of a New Book by Late Dr M N Buch:

The Book titled “An India Reimagined: Governance and Administration in the World’s Largest Democracy” written by Late M N Buch, edited by Shri N. Ravichandran, Former Faculty of IIM, Ahmadabad and published by Penguin Random House, New Delhi was launched by Dr Manmohan Singh, Former Prime Minister of India at a ceremony at India International Centre (IIC), New Delhi on 30th July 2019.



3.11. Environment Helpline: Citizen’s Engagement for Sustainable Urban Development

In 2015, NCHSE and Friends of Environment Group has established NCHSE Environment Help line, a platform, where common citizen, especially youth could reach out for advice/help on urban developmental issues in Bhopal as well as in entire Madhya Pradesh and to enable them to raise the issues of public interest with the concerned authorities.

More than 300 persons ranging from senior bureaucrats, specialists on different discipline, institutions having mandate of environmental protection and conservation and general public of Bhopal are actively associated with the activities of Environment Helpline.

During 2019-20, Helpline continued its efforts to protect the interest of the citizens of Bhopal and time to time raised its voice against government proposals which are not environment friendly and urged for citizen centric development of Bhopal. It continued to point out that consultation with Citizens and their participation for development proposals are must for sustainable development of the city.

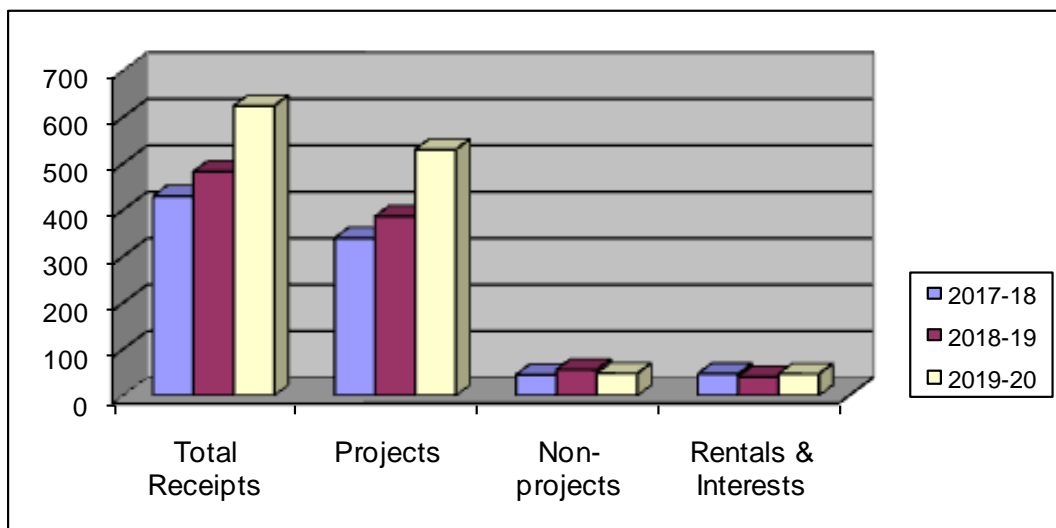
During 2018-20, Environment Helpline deliberated upon and raised several issues that affect the citizens of Bhopal. Letters were written to Chief Minister, Speaker of Vidhan Sabha , Chief Secretary and other concerned authorities for redressal of Citizens concern. The issues include -

1. Implementation of Area Based Development activities under Smart City Mission: Issues include faulty demarcation/layout of ABD area, designing of roads, cutting of trees and starting construction activities without consultation with the citizens and rehabilitation of shop owners and schools affecting drainage, livelihood of people and environmental quality.
2. Proposal for change of land use allowing commercial activities in residential areas.
3. Construction of MLA Rest house on Arera Hills.

One of the major outcome being government taking decision to construct MLA Rest House on the existing site abandoning the previous proposal to construct the Rest House at a new site which was not environment friendly.

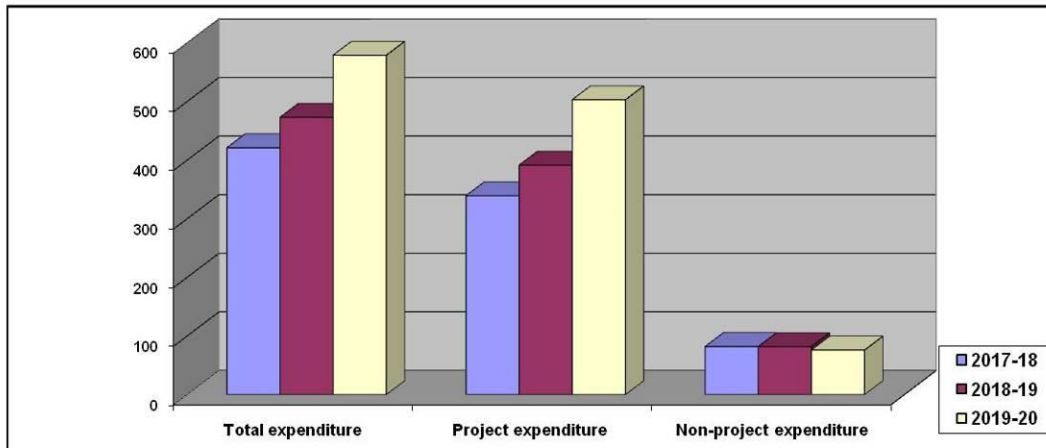
Receipts and Expenditure of NCHSE
2019-20

Total Receipts during 2017-18 to 2019-20



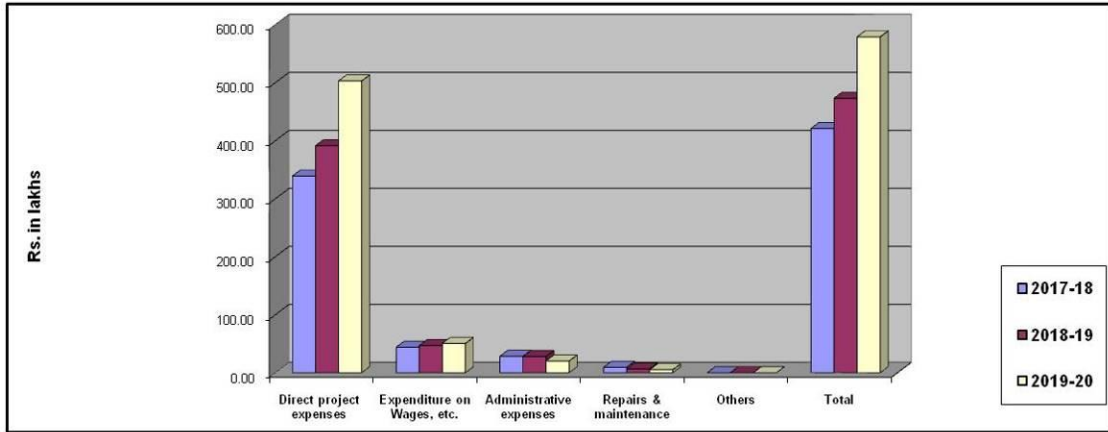
Year	Total Receipts (Rs. in lakhs)	Break up of receipts (Rs. in lakhs)		
		Funded activities (Projects, as given in schedule I)	Non-funded activities (excluding rentals & interests as given in schedule II)	Rentals & Interests
2017-18	429.82	337.86 (78.60%)	45.26 (10.53%)	46.70 (10.87%)
2018-19	482.49	386.05 (80.01%)	56.03 (11.62%)	40.41 (8.37%)
2019-20	624.53	530.06 (84.87%)	47.82 (7.66%)	46.65 (7.47%)

Expenditure during 2017-18 to 2019-20



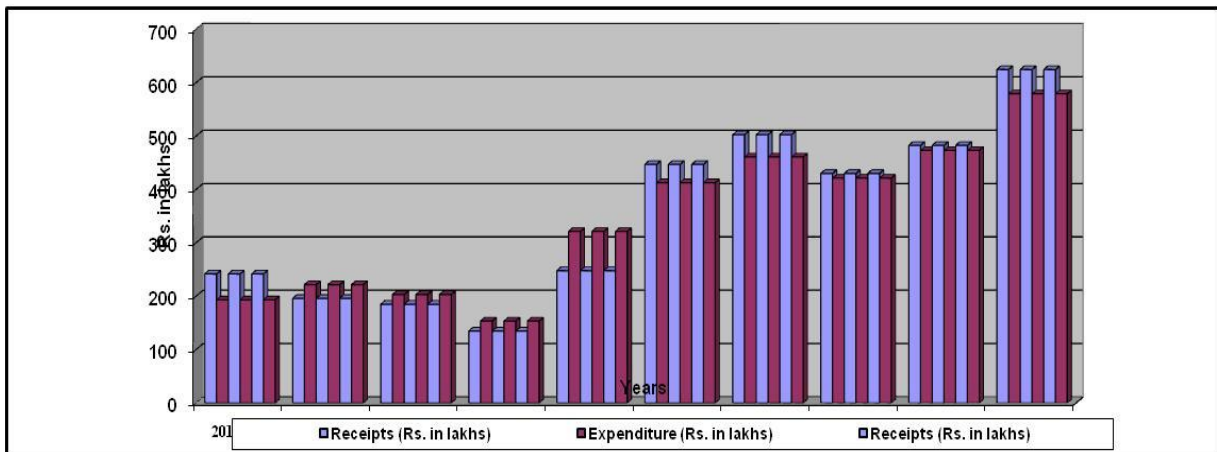
(Rs. In lakhs)			
Year	Total expenditure	Project expenditure	Non-project expenditure
2017-18	421.15	339.26(80.56%)	81.89 (19.44%)
2018-19	473.13	391.43(82.73%)	81.70 (17.27%)
2019-20	579.05	503.07(86.88%)	75.98 (13.12%)

Classification of major heads of expenses



(Rs. In lakhs)						
Year	Direct project expenses	Expenditure on Wages, etc.	Administrative expenses	Repairs & maintenance	Others	Total
2017-18	339.26 (80.56%)	44.00 (10.45%)	28.41 (6.74%)	9.44 (2.24 %)	0.04 (0.01)	421.15
2018-19	391.43 (82.73%)	46.97 (9.93%)	27.99 (5.92%)	6.60 (1.39 %)	0.14 (0.03)	473.13
2019-20	503.07 (86.88%)	50.58(8.73%)	20.19 (3.49%)	5.18 (0.89 %)	0.03 (0.01)	579.05

Position of Receipts and Expenditure for the last 10 years



Year	Receipts (Rs. in lakhs)	Expenditure (Rs. in lakhs)
2010-11	241.64	193.07
2011-12	195.90	221.57
2012-13	184.86	203.09
2013-14	134.70	153.39
2014-15	247.72	321.37
2015-16	446.76	412.57
2016-17	502.43	460.64
2017-18	429.82	421.15
2018-19	482.49	473.13
2019-20*	624.53	579.05

* Surplus include Rs. 76.99 lakhs as unspent project fund.

Annexure -1

Awards/Recognitions Conferred on NCHSE

1. UNEP International Award (1995): Conferred for outstanding contribution towards environmental and soil degradation control in Jhabua district of Madhya Pradesh.
2. WES-UNICEF Best Digital Video Documentation Award: for the work undertaken in Jhabua under UNICEF sponsored fluoride mitigation project.
3. Letter of Appreciation from CEO, Zilla Panchayat, Hoshangabad for successful implementation of mili watershed development works in Kesla block of Hoshangabad district from 1998 to 2003.
4. Certificate of Satisfactory performance of Self Help Groups in Kesla block of Hoshangabad district for the period 2000-2006 from CEO, Zilla Panchayat, Hoshangabad.
5. Nirmal Gram Puraskar under Total Sanitation Campaign for 2007-08 from Office of Commissioner, Indore on 23rd October, 2009 for excellent work under village Panchayat of Jhabua block, Jhabua district.
6. State level Consumer Protection best award for the year 2012-13 from Food, Civil Supplies and Consumer Protection Department, Govt. of Madhya Pradesh awarded on 15th March, 2012 on the eve of World Consumer Protection Day.
7. Letter of appreciation from MPSACS, Bhopal for its contribution for displaying HIV/AIDS information from 25th January to 14th February, 2012.
8. State level award for the Exhibition of Consumer Protection for the year 2012-13 from Food, Civil Supplies and Consumer Protection Department, Govt. of Madhya Pradesh on 15th March, 2013 on the eve of World Consumer Protection Day.
9. Received following recognitions as part of its creditable works amongst HIV/AIDS Target Groups in Ujjain district:
 - Appreciation Letter- Madhya Pradesh State AIDS Control Society, Bhopal;
 - Commendation Letter- R. D. Gardi Medical College, Ujjain.
 - Appreciation for exemplary contribution by Pathfinder – learning site NGO.
 - Certificate- Madhya Pradesh State AIDS Control Society, Bhopal- Training and Pathological Test.
10. First award at the State level of Consumer Protection for the year 2014-15 from Food, Civil Supplies and Consumer Protection Department, Govt. of Madhya Pradesh on 15th March, 2015.
11. State Level Third prize for initiatives undertaken by DCIC for consumer protection on the eve of World Consumer Protection Day programme organized by the Department of Food, Civil Supplies and Consumer Protection, Government of Madhya Pradesh on 15th March, 2019.

Annexure-2
Governing Council of NCHSE

S. No.	Name and Address of the Member	Designation
1.	Mrs. Nirmala Buch, E-4/17, Arera Colony, Bhopal. Email: nirmala.buch@gmail.com Mob.: 9425014105, Tel: 2464803, 2467105	Chairperson
2.	Dr. Pradip Nandi 24, Comfort Enclave, Bhopal -462039, Email: nandip1301@gmail.com Mob.: 9425008936	Director General
3.	Dr. V.D. Garde E-5/11, Arera Colony, Bhopal. Email: vgarde@gmail.com; Mob:9425012128	Member
4.	Shri Ramesh Chandra B-2, Chanakyapuri, Chunabatti, Bhopal. Email: mani_ramesh2k@hotmail.com Mob. 94256 24191, Tel: 2424033	Director (DCIC) & Member
5.	Shri R.R.S. Chauhan 59, Chatrapati Shivaji Colony, Chunabatti, Bhopal. Email: rrchauhan@gmail.com Tel: 2424093 / 98935 58893	Member
6.	Dr. Pratibha Rajgopal P-18, Premium Bungalows, Akriti Ecocity, Bhopal. Email: pratibharajgopal@gmail.com Mob. 9425600643	Member
7.	Dr. G.S.Kaushal 75 A, Janki Nagar, Chuna Bhatti, Kolar Road, Bhopal. Email: kaushalgs43@gmail.com Ph. No.: 2428154; Mob.: 9826057424	Member
8.	Dr. Suhas Kumar, IFS (Retd.) HIG- 206, Bagmugalia Extn., Laharpur, Bhopal – 462043. Email: sukum48@rediffmail.com Mob: 9425303461	Member
9.	Shri Ajoy Bhattacharya, IFS (Retd.) House No. 16, Aranya Enclave, Bagmugaliya, Bhopal-462043. Email: ajoykb@gmail.com Mob.: 9425014566	Member
10.	Prof. Savita Subherwal Raje H.No. 3/17, MANIT Campus, Bhopal. Email: savitaraje@manit.ac.in Mob.: 9826242266	Member
11.	Prof.(Dr.) RekhaSinghal Indian Institute of Management Ranchi-834008, Jharkhand Email: rekha.singhal@iimranchi.ac.in Mob.9425303741 , 8878666741	Member
12.	Dr. D. D. Banerjee H.No. 307, C Sector, Shahpura, Bhopal-462016. Email: devdas.ddbanerjee7@gmail.com Mob. 9425372276	Member

पूर्व सीएस एमएन बुच की स्मृति में व्याख्यान: पर्यावरणविद ने बताई जल प्रबंधन में लापरवाही

50 एमएम बारिश से राजस्थान तर, 1 हजार एमएम में भी भोपाल प्यासा

पत्रिका न्यूज नेटवर्क
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भोपाल. राजस्थान के पास भारत-पाकिस्तान सीमा क्षेत्र वाले गांव में 50 व 60 एमएम बारिश में भी तालाब भरे रहते हैं, पानी की कमी नहीं होती, लेकिन भोपाल में 1000 एमएम से ज्यादा पानी गिरने के बाद भी बड़ा तालाब सूख रहा है। ये जल प्रबंधन की बड़ी लापरवाही है। जल प्रबंधन के काम में लगी संस्थाओं को नहीं पता कि बेसिन में कैसे काम किया जाता है? केचमेंट के लिए क्या उपाय करने होते हैं?

ये कहना है पर्यावरणविद फरहाद कॉन्ट्रेक्टर का, जो गुरुवार को आयोजित पूर्व मुख्य सचिव व पर्यावरणविद महेश नीलकंठ बुच स्मृति के चौथे व्याख्यान समारोह को संबोधित कर रहे थे। उन्होंने कहा कि तालाब को जैसी भी मशीन से खोंदकर गहरा कर देने पर से पानी का इंतजाम नहीं हो सकता। हर शहर गांव और कस्बे में जमीन और मिट्टी का अलग स्वभाव होता है, उसे उसी के हिसाब से खोंदकर केचमेंट और बेसमेंट बनाना पड़ता है। उन्होंने कहा कि भारत में सेनिटेशन के लिए



तालाब-कुएं रिचार्ज करना जरूरी

फरहाद ने कहा कि तालाब व कुएं को पानी के लिए तैयार करने से पहले रिचार्ज करना जरूरी है। ठीक से रिचार्ज किए बगैर पानी लेने से तालाब और कुएं की सेहत हर साल बिगड़ती जाती है और एक दिन वह मरने की कगार पर पहुंच जाता है। यह ठीक वैसे ही है जैसे मोबाइल फोन को छोटे टॉपअप डालकर चलाना या बड़ा रिचार्ज कराना। केंद्र सरकार ने कहा है कि हर घर पीने के पानी का नल लगाएंगे, यह एक असंभव बात है जो पिछले 60 साल में पूरी नहीं हुई। यह ठीक वैसा ही है जैसे कुहनी पर चॉकलेट रखकर उसे लगातार ताकना और खाने के सपने देखना। देश में पानी की कमी को समझना होगा हम लंदन पेरिस से पानी नहीं ला सकते।

स्वच्छता अभियान चलाना पड़ता है, क्योंकि यहां लोगों में समझ की कमी दिखती है। हेरान करने वाली बात है कि समझ की कमी की समस्या गांव की कम पढ़ी-लिखी जनता में कम

और शहर की पढ़ी-लिखी जनता में कहीं ज्यादा है।

फरहाद कांटेक्टर ने कहा कि मैंने छह सौ से ज्यादा गांवों में काम किया, पर कभी वहां गंदगी का ढेर

भी नहीं देखा, लेकिन शहर के लोगों के लिए स्वच्छता अभियान चलाना पड़ रहा है। राजस्थान का मारवाड़ी समाज आज भी सीमेंट ईट के कंस्ट्रक्शन की बजाय चूने और पत्थरों का इस्तेमाल कर पानी जमा करने के टांके घरों के बाहर तैयार करता है और शहरों में टैन वाटर हावीस्टिंग सिस्टम का फैशन चल रहा है, लेकिन इसका फायदा नहीं हो रहा। आरओ सिस्टम कंपनियों ने ये बात फैला दी है कि तालाब का पानी मत पियो नहीं तो बीमार पड़ जाओगे, देश की 65 फीसदी आबादी आज भी तालाब, कुएं और बावड़ी का पानी पीकर भी स्वस्थ है।

भास्कर विशेष

93 हजार 423 यात्रियों ने अप्रैल में राजा ओज विमानतल से उड़ानभरी थी। यह अप्रैल 2018 से 34.9% अधिक है। अप्रैल 19 में भोपाल से 1152 फ्लाइट्स यूकेनट हुए, जबकि बीते साल अप्रैल में यह फिर्क 687 था।

एमान बुच स्मृति व्याख्यान में फरहाद कॉन्ट्रक्टर बोले- राजस्थान के जैसलमेर में 70 मिमी बारिश के बाद भी जलसंकट नहीं तालाबों के कारण जिंदा है भोपाल, लेकिन अफसोस 1000 मिमी बारिश के बावजूद इस शहर के सामने भी खड़ी है पानी की चुनौती

विरोध संवाददाता | भोपाल

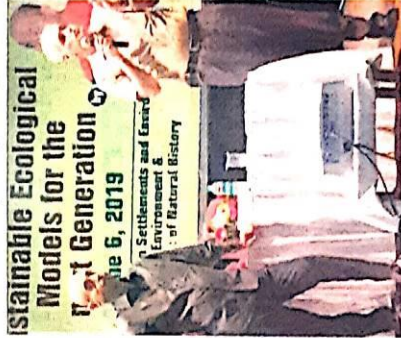
पानी के स्रोत राज्य की संपत्ति हैं, लेकिन वे राष्ट्र के सम्पत्ति हैं। मौजूदा डेवलपमेंट मॉडल में हमारी लॉडशेडिंग इस बात को या तो भूल गई है या जानबूझकर अनदेखी कर रही है। क्लासिक में दी जा रही शिक्षा ने हमारी जनरेशन को हमारे मौलिक ज्ञान, सोच और पुरखों की दी हुई समझ से दूर कर दिया है। यही कारण है कि हम पानी के संकट को गंभीर ही नहीं मान रहे हैं। बारिश के पानी को सहेजने के बजाए इस गांवा कर रहा है।

गुरुवार शाम को आयोजित महेश नीलकंठ वृच स्मृति व्याख्यान में आए प्रख्यात पर्यावरणविद् और अहमदाबाद के समभाव ट्रस्ट के कार्यकारी सचिव फरहाद कॉन्ट्रक्टर ने जलसंकट की गंभीरता को न केवल समझाया, बल्कि जैसलमेर, बंकाणेर में ग्राउंड लेवल पर हुए कामों के ज़रिए जलसंकट का समाधान भी बताया। व्याख्यान का विषय 'आली पौढ़ी के लिए स्थाई इकोलॉजिकल मॉडल' का पुनर्निर्माण था। फरहाद ने कहा- भू-जल का हम इतना ज्यादा दोहन कर रहे हैं कि सालाना इसके

रीचार्ज और डिस्चार्ज में 83% का अंतर आ चुका है। भोपाल के लोगों को भले ही जलसंकट दिखाई नहीं दे रहा हो, लेकिन अगली पीढ़ी के सामने भयंकर जलसंकट की चुनौती खड़ी होगी। एक हजार साल पहले जिन्होंने भोपाल में झीलें बनवाई वे लोग बेवकूफ नहीं थे, जो तब की ज़रूरत से कहीं ज्यादा श्रम और धन खर्च कर भविष्य के लिए संसाधन जुटाए थे, लेकिन मौजूदा पीढ़ी क्या कर रही है? क्या उसने नया विस्तार किया? पुरानी विरासत को सहेजा या नष्ट किया है? क्या दूसरों के हक का पानी कहीं और से नहीं छीना है? भोपाल जिंदा है तो अपने तालाबों के कारण। जिस दिन तालाब खत्म हो जाएंगे, उस दिन भोपाल रहने लायक नहीं बचेगा।

कभी तिली टाकीज तक था जंगल : पूर्व पीसीसीएफ सुहास कुमार ने कहा कि स्मार्ट सिटी के नाम पर हम अनस्मार्ट काम करते जा रहे हैं। पंड काट रहे हैं, नेचुरल ड्रेनेज को पाटकर बिल्डिंग बना रहे हैं। भोपाल में कभी तिली टाकीज तक जंगल हुआ करता था। वड़े तालाब की तमाम नेचुरल ड्रेन थी, लेकिन विकास के नाम पर हम सब नष्ट कर दीं। कोलाश का भी रास्ता अब बंद हो गया है।

यलासरूम में दी जा रही शिक्षा ने अगली पीढ़ी को मौलिक ज्ञान, सोच और पुरखों की दी हुई समझ से दूर कर दिया



समझाइए... पर्यावरण परिसर स्थित रीजनल म्यूजियम ऑफ नेचुरल हिस्ट्री सभागार में पानी का महत्व और उसकी चुनौतियों को समझाते फरहाद।

भोपाल-जैसलमेर की तुलना : जैसलमेर के उन रेगिस्तानी इलाकों के गांवों में 70 मिमी बारिश के बावजूद भी गर्मी में जलसंकट नहीं है, लेकिन भोपाल में 1000 मिलीमीटर बारिश होती है, फिर भी यहाँ पानी नहीं मिल रहा तो इसे यहाँ की लॉडशेडिंग और कठोरताओं को बेअकाली ही कहा जाएगा, जो भरपूर पानी होने के बावजूद उसे सहेज पाने और स्वच्छ रख पाने में नकाम है।

सरकारी दावे : बीते 60 साल से सरकारें क्या कर रही हैं, प्लानिंग तो बिछा दी जाएगी, नल भी लगा दिया जाएगा, लेकिन पानी कहां से आएगा? मुझे ऐसी केमन और दावे पर कतई भरोसा नहीं है। जब तक पानी बचाने और जलस्रोतों को संरक्षण पर काम नहीं होगा, भविष्य की पीढ़ियों को सामने पैदा होने वाली समस्या टालते नहीं जा सकते हैं।

बोरोवेल खनन : मैं इसके सखी खिताफ हूं। इसी के कारण भू-जल का ओवर-एक्सप्लोइटेशन हुआ है। किसी भी बोरोवेल खनन करने वाले को जमीन की डिपेंडेंस नहीं मालूम। डिपेंडेंस से पता चलता है कि कहीं पानी है और कितने नीचे। ज़रूरत से ज्यादा खुदाई पर तो पानी का नुकसान ही होता है, लेकिन बोरोवेल खनन करते वाले को तो पैसे से मतलब है।

सरकारी प्रयास : हकीकत में कोई प्रयास हो ही नहीं रहे। सिर्फ ड्रेन (नदी) का कठोर (बैसिन) पर काम करने से कुछ नहीं होगा। ये तो पानी के अंतिम बिंदु हैं। हमें अपस्ट्रीम तक काम करना होगा, जहाँ से पानी नदी और तालाबों में आता है। जब पानी के उल्टे हो बंद हो जाएंगे तो नदी और तालाब को गहरा करने से कुछ नहीं होने वाला।

Local groups are vital for nurturing nature: Gadgil

TIMES NEWS NETWORK

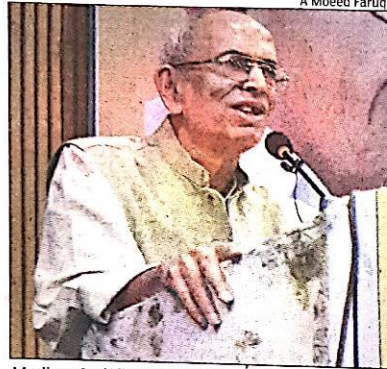
Bhopal: Emphasising the role of indigenous people in environment conservation, eminent ecologist Dr Madhav Gadgil said that empowerment of the local communities is essential for nurturing the natural resources. Also, it would help generate productive employment on a massive scale across the country.

Gadgil was addressing the 5th Mahesh Buch Memorial lecture on the subject 'Ecology is for the people' here on Saturday. The conference was organised jointly by National Centre for Human Settlements and Environment and Friends of Environment. He also stressed upon the need for conservation of community forest resources.

Dr Gadgil, who is also honoured with Padma Shri in 1981 and Padma Bhushan in 2006, said the indigenous people had developed the economy of mutual cooperation.

The eminent ecologist also expressed concern over the way the industry runs agriculture and handicraft.

Dr Gadgil was the founder of the Centre for Ecological Sciences, a research forum under the aegis of the Indian Institute of Science. He is a former member of the Sci-



A Moeed Faruqi

Madhav Gadgil addresses the 5th Mahesh Buch memorial lecture in Bhopal on Saturday

entific Advisory Council to the prime minister of India and the Head of the Western Ghats Ecology Expert Panel of 2010, popularly known as the Gadgil Commission.

A large number of people including academicians, intellectuals, environmentalists, administrators and students among others were present.

Hotel mgmt student kills self in Kolar

Bhopal: A 21-year-old hotel management student allegedly committed suicide by hanging self at his house in Kolar locality on Friday evening.

According to police, the deceased has been identified as

Helpline Number for COUNSELLING

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Ashish, a resident of Priyanka Nagar in Kolar. He was a final year hotel management student at a private college. His father Shishupal Thapa is a driver in the PHE department. He hanged himself when he was alone in his house. His mother spotted him and was shocked to see him hanging in his room. The family members rushed him to a hospital where he was declared brought dead. TNN

सामुदायिक वन संसाधनों के संरक्षण की आवश्यकता : डॉ. माधव

भोपाल, देशबन्धु। देशज लोगों ने परस्पर सहयोग की अर्थव्यवस्था विकसित की थी जिसमें प्रकृति के पारम्परिक उपाय शामिल थे और यह सीमित न होते हुये व्यापक समुदायों के लिये थी। यह उदार देश के प्रमुख पर्यावरणविद और इकालाजिस्ट डॉ. माधव गाडगिल ने महेश बुच स्मृति व्याख्यान देते हुए व्यक्त किए। यह व्याख्यान नेशनल सेंटर फॉर ह्यूमन सेटलमेंट्स एण्ड एनवायनमेंट और फ्रेंड्स आफ एनवायनमेंट भोपाल द्वारा आयोजित किया गया।

डॉ. गाडगिल ने उद्योगों द्वारा कृषि और हस्तशिल्प के अतिक्रमण पर चिंता व्यक्त की। उन्होंने गांधी को उद्धृत करते हुए कहा कि पृथ्वी सबकी आवश्यकताओं के लिए पर्याप्त पूर्ति करती है लेकिन मनुष्य के लालच को पूरा नहीं कर सकती। उन्होंने गांधियन अर्थशास्त्री जेसी कुमाराप्पा के स्थयित्व की आर्थिक व्यवस्था का उल्लेख किया जो विकसित पश्चिमी देशों की पूंजी बाजी व्यवस्था की विरोधित है क्योंकि यह प्राकृतिक संसाधनों की उपयोग पर आधारित है। इस व्यवस्था में इन देशों की अन्य देशों के प्राकृतिक संसाधनों तक पहुंच रही है। भारत के पास अतिरिक्त भूमी तथा प्राकृतिक संसाधन विपुल मात्रा में



नहीं हैं। भारतीय अर्थव्यवस्था तो स्थानीय समुदायों को सशक्त बनाकर प्राकृतिक संसाधनों के बुद्धिमतापूर्ण उपयोग करने और अपने हित साधने की है। उन्होंने सामुदायिक वन संसाधनों के संरक्षण की आवश्यकता पर जोर दिया। उन्होंने कहा हमारे पास एक महत्वपूर्ण मौका है कि हम इकालाजी, इकानामी, समाज और प्रजातंत्र की दिशा में आगे बढ़ें।

डॉ. गाडगिल ने पश्चिमी घाटों की परिस्थितिकी और देप के पहले नीलगिरी बायोस्फियर को लेकर जिसके अन्तर्गत दक्षिण के छह राज्य आते हैं का विषय अध्ययन किया है। वे बेस्टर्न घाटों की परिस्थितिकी के लिये बनी विप्रेषण समिति के अध्यक्ष रहें हैं और उन्होंने दक्षिण भारत के तटीय राज्यों पर आसन्न प्राकृतिक आपदाओं के विषय में

पर्याप्त समय पहले चेताया था। उन्होंने वास्तुक परिस्थितिकी वाले दक्षिण भारत के छह राज्यों की प्रमुख नदियों जिनमें चोदावरी, कृष्णा और कावेरी के उदगम हैं के संरक्षण पर सख्ती से अमल का सुझाव दिया था ताकि वहां पर उपलब्ध जैव विविधता कायम रहे। यह उल्लेखनीय है कि उनकी चेतावनी और सुझावों को नजर अंदाज करने का नतीजा पिछले वर्ष कर्ल में आई बाढ़ के रूप में सामने आया है।

डॉ. गाडगिल के व्याख्यान के पहले म.प्र. के पूर्व मुख्य सचिव श्री एन्थोनी डि सा ने आज के व्याख्यान के विषय के बारे में विस्तार से बताते हुये कहा कि जनसामान्य एनवायनमेंट और इकालाजी के अन्तर को नहीं समझ पाते और इन्हें एक ही मानते हैं। डॉ. गाडगिल अपने व्याख्यान में इस अन्तर को स्पष्ट करेंगे। उन्होंने कहा कि नगरीय विकास के लिये संसाधनों की दोहन की दिशा में नये सोच की जरूरत है ताकि हमारे प्राकृतिक संसाधनों पर ज्यादा भार ना आये और टिकाऊ विकास के सिद्धांत पर हम काम कर सकें। आयोजन में अकादमियनस, प्रभासक, पर्यावरणविद, छात्र और सभी वर्गों के नागरिक बड़ी संख्या में उपस्थित थे।

Sardar Patel's ideal of impartial civil services has changed: Singh

TRIBUNE NEWS SERVICE

NEWDELHI, JULY 30

Former Prime Minister Manmohan Singh today said Sardar Patel's ideal of the impartial civil services had changed over the years and there was a need for carefully examining issues related to the functioning of bureaucrats without fear or favour.

Singh was speaking at the launch of a book featuring 20 articles by acclaimed late bureaucrat Mahesh Neelkanth Buch who joined the IAS in 1957 and came to be known as the architect of New Bhopal. Buch's father was a distinguished member of the Punjab cadre of ICS.

The launch of "An India reimagined: Governance and Administration in the World's Largest Democracy", written by Buch and edited by N Ravichandran of Penguin Random House, was organised here by the India International Centre (IIC), Jan Pahal Trust and National Centre for Human Settlement and Environment.

IIC President and former



Former Prime Minister Manmohan Singh calls for state funding of elections at the launch of a book of articles by acclaimed late bureaucrat Mahesh Neelkanth Buch; IIC President and former J&K Governor NN Vohra presided over the event

Jammu and Kashmir Governor NN Vohra chaired the event sharing recollections of Buch, his senior in the IAS.

Referring to the book, Manmohan Singh said: "Buch reminds us that the establishment of All India Services was due to Sardar Vallabhbhai Patel's clear understanding that India had fissiparous tendencies which needed to be controlled and countered by building into the Constitution centripetal features that would hold the country together."

The former PM quoted Buch on how Sardar Patel believed that if the executive governance of states and the Union was carried out by IAS officers, immunised from arbitrary action by the political class, India have a nonpartisan admin-

istration with officers working without fear or favour.

"Buch points out that up to 1967, the system worked extremely well and this was possible because mostly the governments at both the Centre and states were formed by the same party. Since then the situation has changed a great deal and Sardar Patel's ideal of an impartial civil service, immunised from undue political influence and therefore, in a position to give advice without fear and favour, and to administer without bias was in danger," Singh noted adding that over the years the "position has worsened".

The former PM said "issues relating to the functioning of the IAS officers without fear or favour need

to be carefully examined". Further Manmohan Singh today used Buch's observations to make a case for state funding of elections and said: "In his 10 points to curb corruption, Buch argues for a system of state funding of a prescribed minimum amount of expenditure by candidates for state legislature and parliamentary election. His remaining nine points have also considerable merit for curbing corruption."

Singh also said he agreed with Buch about universal health coverage being state-led rather than a privately-led exercise. The event was also attended by MN Buch's wife Nirmala Buch and Suhas Borker, Managing Trustee of Jan Pahal Trust.



मनमोहन सिंह ने किया स्व. एमएन बुच की किताब का विमोचन

इंडिया इंटरनेशनल सेंटर दिल्ली में हुआ कार्यक्रम



सिटी रिपोर्टर | भोपाल

पूर्व प्रधानमंत्री डॉ. मनमोहन सिंह ने हाल ही में पूर्व आईएस स्व. एमएन बुच की पुस्तक एन इंडिया रिइमेजिन्ड का इंडिया इंटरनेशनल सेंटर दिल्ली में विमोचन किया। यहां डॉ. सिंह ने कहा कि मेरे मित्र एमएन बुच बहुमुखी प्रतिभा के धनी थे। उन्होंने गवर्नेंस, नगर नियोजन, पर्यावरण जैसे क्षेत्रों में नवाचार किए और योगदान दिया। वे कैम्ब्रिज यूनिवर्सिटी में मेरे समकालीन थे और बहुत अच्छी पंजाबी भाषा बोलने के कारण मेरे मित्र बन गए थे। उन्होंने इस पुस्तक में प्रकाशित भारतीय प्रशासनिक सेवा, पुलिस, न्यायपालिका और चुनाव पद्धति में

सुधार, आर्थिक, सामाजिक और गवर्नेंस पर केंद्रित लेखों का उल्लेख किया है। डॉ. सिंह ने पुस्तक के संपादक डॉ. एन. रविचंद्रन को इस पुस्तक में शामिल किए गए लेखों को संकलित करने के लिए बधाई दी। इस अवसर पर पूर्व मुख्य सचिव मप्र निर्मला बुच ने बताया कि स्व. बुच द्वारा स्थापित नेशनल सेंटर ऑफ ह्यूमन सेटलमेंट्स एंड एन्वॉयर्नमेंट, उनकी विरासत को लोगों की भागीदारी के साथ आगे बढ़ा रहा है। संस्था प्रतिवर्ष उनकी स्मृति में दो व्याख्यान आयोजित करती है। डॉ. एन. रविचंद्रन ने भी अपने विचार रखे। कार्यक्रम की अध्यक्षता जम्मू-कश्मीर के पूर्व राज्यपाल एनएन वोहरा ने की।

NCHSE OBSERVES EARTH DAY, HOLDS SESSION ON ENVIRONMENT PROTECTION



Former Chief Secretary Nirmala Butch addressing a seminar on World Earth Day on Monday. Former DGP Arun Gurtoo also share dais.

OUR STAFF REPORTER
BHOPAL

Understanding interdependence of living beings is necessary to facilitate sustainable development, said Nirmala Buch, on the occasion of Earth Day, here on Monday.

The Resource Centre for Environmental Protection, Water Conservation and Climate Change organised a discussion session on "Protect and Save our Species".

The event marks the formal beginning of activity of the Centre, established by National Centre for Human Settlements and Environment (NCHSE) to educate young youths about our planet, its various components, their interrelationships and impact of human activities on these interrelationships. It also aims to

help youths/ young learners in becoming environmentally knowledgeable and, above all, skilled and dedicated human beings who would work, individually and collectively, toward achieving and/or maintaining a dynamic equilibrium between the quality of life and quality of the environment.

A detailed presentation on the objectives and activities of the Centre was made by the chairperson of NCHSE Nirmala Buch. She elaborated on her vision for the Resource Centre which mainly centred on school going children. She said that if we could make the school going children aware about interdependence of various components of our environment and need for their protection, they will be able to pass the message of environmen-

tal conservation to their parents and to the society.

Former director, agriculture Dr G.S.Kaushal, spoke about protecting soil micro flora and fauna for sustainable agriculture.

Former deputy director, Van Vihar Dr Sudesh Waghmare, explained the inter relationship between soil, vegetation, herbivore and top carnivores like tiger. He said that as against 31% of forest cover worldwide, India has 21%, which is even under pressure due to increasing development activities.

Member Secretary, Bhopal Birds Dr. Sangeeta Rajgir, provided information about birds of various water bodies of Bhopal. She said that bird population both resident as well as migratory is declining due to various human activities.



Organic Food Fair sees over 4000 footfall, concludes

OUR STAFF REPORTER
Bhopal

The three-day organic food fair held at Arera farm in Gulmohar concluded on Monday. Over 4000 people attended the fair.

They bought organic and chemical-free fruits and vegetables and enjoyed the food prepared by them. The fair was organised by NCHSE and farmers organisation under the aegis of Krishak Jagat.

Organic farmers from Khandwa, Harda, Hoshangabad, Raisen, Sehore, Bhopal and Devas took part in the fair with their products.

There were organic fertilizers, pesticides and nutrients for sale. Herbal medicines, spices, oil, products made from cow urine and flour made of pulses, wheat, jowar, maize and rice.

The farmers who took part in the food fair were hon-



oured. On the occasion, Dr GK Kaushal, the former director of agriculture, stressed on avoiding use of chemical fertilizers and going for organic methods of farming.

Head of Vijay Bondriyajji said the initiative should be taken to change the food habits of the countrymen. All the participants were given certificate of participation.

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CITY LIVE...

कंज्यूरम आर्गनाइजेशंस, कंज्यूरम वॉयस प्रदेश में भी लागू हो मोटर वाहन संशोधन अधिनियम

Indore School of Social Work (ISSW), Indore
National Centre for Human Rights and Environment, Bhopal
Indore School of Social Work, Indore
Voluntary Organisation in International (VOICE)

पत्रिका PLUS रिपोर्टर

इंदौर ♦ नेशनल सेंटर फॉर ह्यूमन सेटलमेंट्स एंड एनवायरनमेंट (एनसीएचएसई) और कंज्यूरम वॉयस नई दिल्ली ने सड़क सुरक्षा पर हितधारकों के लिए एक परामर्श कार्यक्रम का आयोजन इंदौर स्कूल ऑफ सोशल वर्क में किया। इसमें वक्ताओं ने कहा, नए मोटर वाहन संशोधन अधिनियम का उद्देश्य भारतीय सड़कों को सुरक्षित बनाना, भ्रष्टाचार को कम करना और देश की परिवहन प्रणाली को सुधारने के लिए आधुनिक तकनीक का प्रयोग करना है। इस अधिनियम को कई राज्यों ने अभी तक लागू नहीं किया है, क्योंकि परिवहन क्षेत्र संविधान की समवर्ती सूची में है, जिस पर राज्य और केन्द्र दोनों कानून बना सकते हैं। कार्यक्रम में बताया गया कि देश में होने वाली कुल सड़क दुर्घटनाओं में मप्र का हिस्सा 11 फीसदी है जो सभी राज्यों में दूसरे नंबर पर है। इसलिए लोगों के कीमती जीवन को बचाने के लिए मप्र में भी मोटर वाहन अधिनियम को लागू करने के लिए अधिसूचना जारी की जाए।