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Abstract

Rural development in the Indian Himalayan region (IHR) has always been a challenge due to inherent constraints of inhospitable terrain, remoteness, fragility of ecosystem, and economic poverty of people thereby adding complexity in making policies and strategies for development planning. This paper presents a synthesis of 46 major Central Sector Schemes/ Programmes of Govt. of India pertaining to livelihood and rural development, environmental protection and farmers' welfare those are implemented in the 12 IHR States through various Departments / Agencies. The State Governments also have over three dozen schemes/ programmes and projects for various sectors of rural development and farmers' welfare encompassing even the recent sectors such as climate change, disaster management, organic farming, biodiversity conservation, solar and bio-energy, protected cultivation, etc. with special emphasis on women participation, weaker sections and BPL families. However, there is still a need to value women's role in policy making processes enabling convergence of Central and State Govt. schemes in development. Also, the potential of S&T needs to be optimally utilized to overcome the development constraints along with understanding the operational, political bureaucratic infrastructure and provisioning of appropriate

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institutional and delivery mechanisms to enhance rural income. To address economic poverty of people of the Himalaya, appropriate policies need to be brought out to restore balance between economic interest and ecological imperatives and realize the goal of sustainable development in the ecologically fragile IHR.

Keywords

Rural development, Natural resource management, Central and State Sector Schemes, Indian Himalayan villages

Introduction

In India people live mostly in the villages; thus rural development is synonymous with the development of the people living in rural areas. Village development encompasses infrastructure creation, sustainable livelihoods, and decentralized governance. It concerned with putting more efforts and investments for raising efficiency per person. Therefore, education, information, training, research, and application of research are within the scope of rural development. Mountains, with their inherent constraints of remoteness, sensitive ecosystem, and marginality, pose unique challenges to rural development (Jodha et al. 1992). In this context setting up village cluster- level support to strengthen governance, transforming regular programmes by adopting a saturation approach has been suggested (Tambe et al. 2012). There is a need to further expand capacities and economic opportunities in rural areas by prioritizing self-employment sector, by expanding non-farm rural economy, youth training and placement, strengthening democratic institutions to ensure rapid and inclusive growth of the rural economy that would reduce poverty and improve the quality of life of the rural poor. Globally, mountains are regarded as distinct development areas and present specific challenges for formulation of policies, strategies and planning processes for sustainable development (Action Plan for Himalaya, 1992). Existing sectoral policies for natural resource management in the mountains are found to be less-functional and unsuitable. Gulati & Gupta (2003) in the Himalayan state H.P. pointed out that the existing policies hardly address the key issues of sustainable mountain development and even there are

inter and intra policy conflicts. Through integrated resource management the critical linkages between mountain highlands addressed to achieve lowlands can be sustainable development (Singh, 2006).

Rural development - The Himalayan context

The fragile mountain ecosystems are globally recognized as water towers, sources of hydro-power, repository of rich biological diversity, centres of culture and indigenous knowledge, tourist destinations, indicators of climate change and providers of ecosystem goods and services (G-SHE, 2017). The ecologically fragile Indian Himalayan Region (IHR) spread across 10 States fully; Assam and West Bengal partially, and two Union Territories J&K and Ladakh, and characterized by diverse demographic, economic, environmental, social and political systems. According to 2011 census, about 79 percent population (of the total 51 million population) of the IHR is rural. It has been realized that despite the importance of mountains in sustainable development context, the specific challenges of development in mountains are inadequately reflected in National Policies (Mountain Agenda, 2002). The sectoral development models applicable for plains are implemented also in the mountains. Consequently, development activities in Himalayas lack coherence causing degradation of environment, poor biological productivity, deforestation, soil erosion, landslides, flood and other natural hazards, socioeconomic disparity, poverty and malnutrition, out-migration, loss of bio- diversity and cultural heritage, erosion of indigenous knowledge systems and depletion of life support systems making the region and its people more vulnerable to climate change impacts thus requires specific mountain focus in policies and programmes to address these issues of ecological and economic marginalization (Swaminathan, 1991; Anonymous, 1992). The Ministry of Rural Development, GoI also emphasizes on (a) investing in regenerating natural resources, (b) mobilizing and developing the capacities of community institutions sustainable utilization of natural resources, and (c) aggregating 'small initiatives' to improve natural capital for integrated rural development in Himalayan mountains. To address the sustainable

development issues of IHR, various Task Forces / Working Groups / Committees were constituted from time to time by Government of India (Sharma et al. 2015). Prominent among them were: (i) National Commission on Development of Backward Classes (1981); (ii) Task Force for the Study of Eco-development in the Himalayan Region (1982); (iii) Working Group on Hill Area Development Programme (1985); (iv) Expert Group on National Policy on Integrated Development of Himalaya (1993); (v) High Level Commission on Transforming the North-eastern Region (1997); (vi) Task Force on the Mountain Ecosystems (2006); (vii) Task Force to look into problems of hill states and hill areas (2010); (viii) Working Group on improvement and development of transport infrastructure in the north-east (2012); and (ix) Committee to study development in hill states focusing on infrastructure, livelihood and human development Recently in 2017, NITI Aayog constituted Five Working Groups for Sustainable Development of IHR: (1) Inventory and Revival of Springs for Water Security, (2) Sustainable Tourism, (3) Shifting Cultivation, (4) Strengthening Skill & Entrepreneurship, and (5) Data/Information for Informed Decision Making. On the basis of the Thematic Reports/ Recommendations of these Working Groups, NITI Aayog constituted 'Himalayan State Regional Council' for Sustainable Development in IHR that will also monitor the implementation of action points for Central Ministries, institutions and across the Himalayan States. In the IHR context it is noticeable that during various Five Year Plans (FYPs) desired targets or goals were still to met fully. Learning (based on the monitoring indicators of FYPs) such as: (i) A realization of consideration of the peculiarities of hilly terrain and hill societies in policy formulation / planning process; (ii) An appreciation of values of hills in the maintenance of ecological balance having long-term economic values; (iii) Preference to development programmes relying more on indigenous/local resources; (iv) the area specific development programmes compatible to ecological and social specificities; (v) Need for hastening the process of technology transfer; (vi) Importance of long-term studies for ecological and economic changes; and (vii) Relevance of natural resource management programme

implementation in ecological units instead of administrative units (Sharma et al. 2015). Protection of interests of indigenous population, therefore, must assume the focus as well as priority for interventions aimed for sustainable development in the IHR. Government Policies & Programmes on Mountain Development: Government of India is committed to raising the living standards of its citizens and ensuring inclusive growth for all - "Sabka Saath Sabka Vikas Sabka Vishwas" as a guiding principle that consists of five considerations: Indian economy has high rate of growth but major development challenges; pockets of under-development need rapid improvement; inclusive growth; sustaining 8 percent or higher GDP growth; and meet SDG commitments. To enable optimum utilization of their potential, Transformation Aspirational Districts' programme has been started by Government of India with a focus on Health & Nutrition, Education, Agriculture & Water Resources, Financial Inclusion & Skill Development, and Basic Infrastructure, thereby effectively transform these districts based on 49 key performance indicators. The broad contours of the programme are Convergence (of Central & State Schemes), Collaboration (of Central, State level 'Prabhari' Officers & District Collectors), and competition among districts driven by a mass movement. With States as the main drivers, this program focuses on the strength of each district, identify lowhanging fruits for immediate improvement, measure progress, and rank districts. Central Government Schemes (CSS) are broadly divided into two categories, i.e. Central Sector Schemes and Centrally Sponsored Schemes. Major CSS running in India and in the IHR states focusing on rural development, farmers' welfare and natural resources management with salient features compiled from various sources are given in Table 1. Most of these schemes running in the IHR States target almost every sector of rural development and livelihood support, viz., agriculture/horticulture (15 nos.), livelihood/employment generation/ capacity building (15), forestry/biodiversity/medicinal plants (8), livestock and fisheries (4), water (2) and clean technology (1). In these schemes special emphasis has been placed on rural upliftment, women participation and capacity building, weaker sections and BPL families. Information about the CSS pertaining to its objectives,

beneficiary target groups and funding pattern and other details can be obtained from National Institute of Rural Development & Panchayati Raj in each State under MoRD and "Sansad Adarsh Gram Yojana". Other than the CSS, the State Governments have over 100 schemes/programmes and projects for various sectors of rural development and farmers welfare and many of them are state-specific and encompass recent subjects such as climate change, disaster management, organic farming, biodiversity conservation, solar and bio-energy, polyhouses and protected cultivation, medicinal and aromatic plants, mushroom, etc. other than the erstwhile routine subjects such as agriculture, horticulture, animal husbandry etc. (Table 2).

Table 1: Central Sector Schemes/Programmes / Projects of livelihood enhancement, rural development, natural resource management and farmers welfare in IHR

S. No.	Name of the scheme / Brief description / Ministry / Deptt.	J & K	HP	Uttarakhand	Sikkim	Nagaland	Tripura	AP	Meghalaya	Manipur	Mizoram	Assam Hills	WB Hills
1.	National Livelihood Mission- Ajeevika (Ministry of Rural Development).	X	X	X	X	X	X	X	X	X	X	X	-
2.	Biodiversity Conservation and Rural Livelihood Improvement Project- (MoEF&CC)	X	X	X	X	X	X	X	X	X	X	X	
3.	Integrated Scheme on Agricultural Co-operation (Department of Agriculture, Co- operation and Farmer's Welfare)	X	X	X	Х	X	X	X	X	X	X	X	-
4.	Clean Technology & Waste Minimisation - (MoEF&CC)	X	X	X	X	X	X	X	X	X	X	X	-

	T							,					
5.	Dairy Entrepreneurship Development Scheme- (Department of Animal	X	X	X	X	X	X	X	X	X	X	X	-
	Husbandry, Dairying and Fisheries)												
6.	Deen Dayal Upadhyaya Grameen Kaushalya Yojana- (MoRD)	X	X	X	X	X	X	X	X	X	X	X	X
7.	Environmental Education Training Scheme - (MoEF&CC)	X	X	X	X	X	X	X	X	-	X	Х	-
8.	MSME Cluster Development Programme- Infrastructure Development & Capacity Building -(Ministry of Small & Medium Enterprises)	X	X	X	X	X	X	X	X	X	X	X	
9.	Intensification of Forest Management- (MoEF&CC)	X	X	X	X	X	X	X	X	X	X	X	X
10	Integrated Scheme on Agricultural Marketing- (Ministry of Agriculture and Cooperation)	x	X	X	X	X	X	X	X	X	X	X	X
11	Joint Forest Management- (MoEF&CC)	X	X	X	X	X	X	X	X	X	X	X	X
12	Mahatma Gandhi National Rural employment Guarantee Act (2005); MGNREGA - (MoRD)	X	X	X	X	X	X	X	X	X	X	X	X
14	Marketing Assistance of NTFP and MFP Products- 'Van Dhan Vikas Karyakram' (Ministry of Tribal Affairs)	X	X	X	X	X	X	X	X	X	X	X	-

15	National Small	X	X	X	X	X	X	X	X	X	X	X	-
	Industries												
	Corporation Ltd.												
	Marketing												
	Assistance												
	Scheme - (Ministry												
	of Micro, Small &												
	Medium Enterprises												
16	Enterprises) Minor Forest	X	X	X	X	X	X	X	X	X	X	X	_
10	Produce (MFP)	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	
	marketing through												
	MSP and												
	Development of												
	Value Chain for												
	MFP- (Ministry of												
	Tribal Affairs)												
16	Mission for	X	X	X	X	X	X	X	X	X	X	X	X
	Integrated												
	Development of												
	Horticulture-												
	(Ministry of												
	Agriculture and												
	Cooperation)												
17	Multi-Sectoral	X	X	X	X	X	X	X	X	X	X	X	
•	Development												
	Programme-												
	(Ministry of												
18	Minority Affairs) National Livestock	X	X	X	X	X	X	X	X	X	X	X	
10	Mission -	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	_
	(Department of												
	Animal												
	Husbandry,												
	Dairying and												
	Fisheries)												
19	Dairy	X	X	X	X	X	X	X	X	X	X	X	-
	Development												
	Programme-												
	(Department of												
	Animal												
	Husbandry,												
	Dairying and												
00	Fisheries)	7.	**				1.	1.		**	**	7.	1.
20	National Food	X	X	X	X	X	X	X	X	X	X	X	X
	Security Mission-												
	(Ministry of												
	Agriculture and Cooperation)												
21	National Mission	X	X	X	X	X	X	X	X	X	X	X	X
41	on Sustainable	^	Λ	Λ	^	Λ	^	^	Λ	Λ	Λ	^	Λ
	Agriculture -												
	(Ministry of												
	Agriculture and												
	1 22griculture and			<u> </u>	1		1	1				<u> </u>	

	Farmers												
	<i>Welfare)</i> (a)												
	Paramparagat												
	Krishi Vikas												
	Yojana; (b)												
	Management of												
	Soil Health and												
	Soil Health Card												
	Schemes; (c)												
	Rainfed Area												
	Development; (d)												
	Per Drop More												
	Crop- Pradhan												
	Mantri Krishi												
	Sinchayi Yojana;												
	(e) Sub-Mission on												
00	Agroforestry	v	v	37	37	37	37	37	v	v	v	v	37
22	National Mission on Agricultural	X	X	X	X	X	X	X	X	X	X	X	X
•	Extension and												
	Technology -												
	(Ministry of												
	Agriculture and												
	Cooperation)												
23	National Fisheries	X	X	X	Х	Х	Х	Х	X	X	X	X	X
20	Development	21	71	21	21	71	21	71	21	21	21	21	21
	Board-												
	(Department of												
	Animal												
	Husbandry,												
	Dairying and												
	Fisheries)												
24	National AYUSH	X	X	X	X	X	X	X	X	X	X	X	X
	Mission- (Ministry												
	of AYUSH)												
25	National Medicinal	X	X	X	X	X	X	X	X	X	X	X	X
	Plants Board-												
	(Ministry of												
0.5	AYUSH)		-	ļ.,			<u>-</u> -						
26	National Water	X	X	X	X	X	X	X	X	-	X	X	-
•	Mission -(Ministry												
	of Water												
07	Resources) National Mission	X	X	X	X	X	X	X	X	X	X	X	X
27	on Oilseeds & Oil	Λ	A	\ \ \	A	A	A	A	Λ	Λ	Λ	Λ	A
•													
	Palm- (Ministry of Agriculture and												
	Cooperation)												
28	National Mission	X	X	X	X	X	X	X	X	X	X	X	X
40	on Himalayan	1	1	^	1	1	^	1	1	1	1	1	71
•	Studies (NMHS)-												
	Central Sector-												
	Grant-in-Aid												
	Scheme (Mountain												
	1			-									

	Division, MoEF&CC)												
29	National Service Scheme- (Ministry of Youth Affairs & Sports)	X	X	X	X	X	Х	X	Х	X	X	X	Х
30	National e- Governance Plan in Agriculture (Deptt. of Agriculture, Cooperation & Farmers' Welfare)	X	X	X	X	X	X	X	X	X	X	X	Х
31	Organic Farming in North East Region- (Ministry of Development of NE Region)	X	X	X	X	X	X	X	X	X	X	X	-
32	Pradhan Mantri Fasal Bima Yojana/Weather Based Crop Insurance Scheme (Department of Agriculture, Cooperation & Farmers' Welfare)	X	X	X	X	X	X	X	X	X	X	X	X
33	Paramparagat Krishi Vikas Yojana- (Ministry of Agriculture and Cooperation)	X	X	X	X	X	X	X	X	X	X	X	X
34	Pradhan Mantri Krishi Sinchai Yojana- (Ministry of Agriculture and Cooperation & Ministry of Water Resources)	X	X	X	X	X	X	X	X	X	X	X	Х
35	Prime Minister's Employment Generation Programme- (Ministry of Micro, Small & Medium Enterprises)	Х	Х	Х	Х	X	X	X	X	X	X	X	Х
36	Trade Related Entrepreneurship Assistance for Women- (Ministry of Micro, Small & Medium Enterprises)	Х	Х	Х	Х	X	Х	X	X	X	X	X	-

. V F A (! A	Protection of Plant Varieties and Varmers' Rights Authority, India Ministry of Agriculture & Varmers Welfare)	X	X	X	X	X	X	X	X	X	X	X	X
. V (!	Pashtriya Krishi Yikas Yojana- Ministry of Agriculture and Cooperation)	X	X	X	X	X	X	X	X	X	X	X	X
. S M (1 A	Sub Mission on Seed and Planting Material Department of Agriculture, Cooperation & Carmers' Welfare)	X	X	X	X	X	X	X	X	X	X	X	X
. P a Q (l P	Sub-Mission on Plant Protection and Plant Quarantine Directorate of Plant Protection, Quarantine and Storage)	X	X	X	X	X	X	X	X	X	X	X	
41 S . A . M (I)	Sub-Mission on Sugricultural Mechanization District Agriculture Officer of Concerned State Governments)	Х	X	X	X	X	X	X	X	X	X	X	-
42 S . fo E D	&T Programme or Socio- conomic Development- Ministry of Science & Technology)	X	X	X	X	X	X	X	X	X	X	X	-
43 N S L D M	lai Roshni- scheme for eadership Development of Minority Women- Ministry of Minority Affairs)	X	X	X	X	X	X	X	X	-	X	X	X
44 S . A S	special Central assistance to scheduled Castes Ministry of Social	X	X	X	X	X	X	X	X	-	X	X	-
J	fustice & Empowerment)												

•	Training & Employment- (Ministry of Women & Child Development)												
46	Capacity Building and Technical Assistance of North Eastern Region Youth - (Ministry of Development of NE Region)	-	1	-	-	X	X	X	X	X	X	X	1
47	Upgrading the Skills and Training in Traditional Arts/Crafts for Development (USTTAD)- (Ministry of Minority Affairs)	X	X	X	X	X	X	X	X	X	X	X	1
48	Village Entrepreneurship Start-up Programme- (MoRD)	X	X	X	X	X	X	X	X	X	X	X	-

Table 2: State Government schemes/programmes/projects on rural development and farmers' welfare in the IHR states.

development and farmer	rs' welfare in the IHR states.					
Name of Scheme / Department	Focus area/activities					
Arunac	hal Pradesh					
Horticulture Garden Scheme	Diversified agriculture and allied					
(Horticulture Department)	livelihoods, livestock and horticulture.					
Living Heritage (Village Tourism	Local artists, artisans, traditional art and					
including eco-tourism) (Tourism	establish Culture Village and Tourism					
Department)	Haat.					
Development of Rural Tourism	Construction of eco-friendly tourist huts.					
(Tourism Department)						
A	Assam					
Mukhya Mantri Matsya Bikash	Construct pond for fishery to promote					
Achoni (Fisheries Department)	diversified agriculture, livestock and					
	horticulture.					
Mukhyamantri Karma Jyoti Achoni	Modern tools/ machineries & yarn given					
(Industries Department)	to artisans / trained personnel and					
	grants to SHGs for self-employment.					
Kalpataru Scheme (Industries	Financial support for employment					
Department)	generation in Agriculture to BPL people.					
Mukhya Mantri Mohila Samridhi	Training/capacity building of Producer					
Achoni (Handloom and Textile	Group/Women SHGs/Producers to adopt					
Department)	modern weaving techniques.					

Craftsman Training Schemes	Training to artisans on craftsmanship.
(Labour and Employment	
Department)	
Mukhyamantri Axom Nirmal Aru	(i) Providing toilets in each household and
Seuj Abhiyan (Panchayat & Rural	public institutions; and (ii) solid and
Devp. Department)	liquid waste management.
Jammu	ı & Kashmir
Development of Horticulture in Dry	Promote diversified agriculture, livestock
Lands & Hilly Areas (Agriculture	and horticulture in dry lands and hilly
Department)	areas.
Development of Rare & Minor Fruits	Subsidy given for introducing rare and
Including Berries (Agriculture	minor fruits.
Department)	
Subsidy on Plant Protection	50 percent subsidy is provided for plant
Machinery (Agriculture Production	protection machinery for spraying
Department)	insecticides/ pesticides.
Development of Demonstration Plots	Full support for demonstration of model
(Agriculture Production Department)	plots for one year (saplings, fencing,
M: : C1	agricultural inputs, etc).
Mini Sheep Farm Scheme (Animal &	Credit linked Mini Sheep Farms (50 Ewes
Sheep Husbandry Department)	and 2 Rams) for unemployed youth.
Development of Apiculture	50 percent subsidy given for a bee colony.
(Agriculture Production Department)	
Development of Mushroom Scheme	Good quality seeds, compost, trainings
(Agriculture Production Department)	and exposure visits for mushroom
Handicrafts Training (Handlooms	cultivation. Training artisans, preferably women, in
Training Industries & Commerce	Kashmiri handicraft and weaving through
Department)	handlooms.
State/District Plan (PHE, Irrigation	Watershed management (traditional
& Flood Control Department)	water bodies, irrigation, drainages, flood
a riou compor populations,	protection, etc).
Silvi Pastures and Fodder	Develop forest degraded land into
Development (Forest Department)	pasture.
Rehabilitation of Degraded Forests	Plantation in degraded forests.
(Forest Department)	
Village Wood Lot (Forest	Trees are planted in community land.
Department)	
	hal Pradesh
Kisan Bagwaan Samridhi Yojana	Cash crops/precision farming
(Agriculture Department)	(Polyhouses) through micro-irrigation etc.
Scheme for Soil Testing (Agriculture	Free soil testing and Soil Health Cards to
Department)	farmers.
Crop Diversification Project	Facilities of irrigation, farm access roads,
(Agriculture Department)	marketing, post-harvest, organic farming
	etc.
Horticulture Development Project	50 percent subsidy to SC/ST/BPLs for
(Horticulture Department)	planting of orchards; for small farmers
	(25 percent subsidy) and marginal
Di	farmers (33.3 percent subsidy).
Plants Protection Programme	Provide fungicide, insecticides and
(Horticulture Department)	equipment on 50 percent subsidy for
	small and marginal farmers and 30

	noncent auboids for his formers
Training Draggemen for	percent subsidy for big farmers.
Training Programme for	Assistance for tools /sewing machines to
SCs/STs/OBCs for self employment	trained people (BPL family) for Rs.
(Rural Development Department)	1500/
Skill Development Allowance (Labour	Upgrade skill of physically handicapped
and Employment Department)	unemployed youth for 24 months.
Self-Employment to Women (Women	Grant provided for self-employment to
& Child Development Department)	women with income <rs. 35000="" td="" yr.<=""></rs.>
Village Tourism including eco-	Home Stay Scheme in rural and offbeat
tourism (Tourism Department)	areas.
Maharishi Valmiki Sampooran	A competition based State level award of
Swachhata Puruskar (Rural	₹ 10.00 lakh; Rs. 5 lakh at Division level,
Development Department)	at District level Rs. 3 lakh and at Block
	level Rs. 1 lakh to cleanest Gram
	Panchayat.
Bio-gas (Rural Development	Construction of Bio-gas units in villages.
Department)	
Mukhya Mantri Adarsh Gram Yojana	Integrated development (road, water,
(Social Justice and Empowerment	sanitation and street lights, etc.). of
Department)	selected villages with > 40 percent SC/ST
	population.
M	anipur
North Eastern Council Fund for	Employment and income generating
Resource Mobilisation Scheme	programmes for improving socio-
(Agriculture, Horticulture, Veterinary	economic conditions of OBCs &
and Animal Husbandry Department)	minorities.
Promotion of Fisheries Activities	Awards to motivate fish farmers and
through competition on fish fair cum	farmers with highest records of
fish crop (Fisheries Department)	production.
State share to NEC programme for	Grants for revival of orchard,
Horticulture Development Activities	amelioration of acid soil of horticulture
(Agriculture, Horticulture, Veterinary	crops and production of quality and
and Animal Husbandry Department)	nucleus potato seeds.
Economic Development Programme	Enhancing skill of individual/ family by
(Commerce and Industries	training on crafts, embroidery, carpentry,
Department)	tailoring, etc.,
National Afforestation Scheme,	Tree plantation in homestead, schools
National	and public institutions through NSS.
Service Scheme (Forests &	
Environment Department)	
Biodiversity Conservation	Plantation in river basin and reserve
Programme (Forests and	forest, protection and cleanliness of State
Environment & DST)	Rivers.
,	
State Medicinal Plants (Department	Plantation / conservation of medicinal
of Forests & Env.)	plants.
Mission on Climate Change and	Designat implementation at community
	Project implementation at community,
Adaptation (Directorate of	national and trans-boundary level
Environment)	vulnerable to climate change.

Disaster Management (Directorate of	Danda institutes / socionarities for
Disaster Management (Directorate of Disaster	Funds institutes/ universities for publications/ training & capacity
Management Authority)	publications/ training & capacity building/ assistance to disaster victims
Wanagement Authority)	etc.
D 11 D C D 1	
Renewable Energy for Rural	Promotes family biogas plants, improved
Applications (Renewable Energy	cook stoves and solar cookers.
Development Agency)	ah alawa
Intensive Arts and Culture	ghalaya Promote indigenous folk and tribal arts in
Development Programme (Arts and	music, dance and drama.
Culture Department)	music, dance and drama.
Agriculture Academic Studies	Financial assistance to B.Sc. (Agri/Horti)
(Agriculture Department)	students selected on merit on reservation
(1.8116 alculo 2 opar allicito)	seats in Universities.
State Rice Mission (Agriculture	Increase productivity of rice using
Department)	modern science and extension of
,	technologies.
Tea Development (Horticulture	Plantation of tea at
Department)	experimental/commercial scale by free
	seedling distribution/subsidy.
Tuber Crops Development - Potato,	Enhance potato production by
Tapioca, Colocasia (Horticulture	distribution of HYV seeds, chemicals and
Department)	equipments on 50 percent subsidy.
Vegetable Development Scheme	Providing high yielding/ hybrid crop
(Horticulture Department)	seeds; garden tools at 50 percent
	subsidy. 100 percent assistance for
	organic cultivation and trellis.
Organic Manure (Agriculture	Encourage farmers for use of eco-friendly,
Department)	non-toxic humus and organic fertilisers viz., Azotobacter, Azospirillium,
	viz., Azotobacter, Azospirillium, Rhizobium, etc.
Plant Protection Including IPM	Subsidy (50 percent) on plant protection
(Agriculture Department)	equipments. Free distribution of IPM
(ingriculture Department)	equipments for trapping pests.
Floriculture Development Scheme	Subsidy for floriculture and planting
(Horticulture Department)	materials and other inputs.
Grants in Aid (Commerce &	Grant to pass out trainees to set up their
Industries Department)	own unit by providing basic tools,
	equipments and working capital.
Plantation Development (Arecanut,	Subsidy (33-50 percent) provided to
Cashewnut, Coconut) (Horticulture	farmers for planting materials, polypipes
Department)	and water tank.
Fruit Development (Temperate or	Improved fruit planting materials, garden
Citrus Fruits) (Horticulture	tools, implements at 50 percent subsidy.
Department)	Carlo side to forms one to advert assuming to
Organic Manures Including	Subsidy to farmers to adopt vermiculture,
Vermicompost and Compost Pit (Horticulture Department)	vermicompost and organic manure.
Seed Farms (Agriculture	Production of high quality crop seeds,
Department)	horticultural seedlings for distribution to
Department	cultivators.
Scheme for Self-Help Group/	Financial assistance for livestock
Cooperative Society (Animal	equipments and feed to registered SHGs
triporatio society (miniat	Table and to desire of the original of the ori

Husbandry and Veterinary	/ cooperative societies.
Department)	
Rural Cluster Approach for Poultry	Assistance to farmers for poultry and
and Piggery Devp. (Animal	piggery.
Husbandry and Veterinary	
Department)	
Educated Unemployed Youth	Financial assistance for cattle, goat,
Scheme (Animal Husbandry and	poultry, feed and equipments to educated
Veterinary Department)	unemployed youth.
General Scheme (Animal Husbandry	Financial assistance for livestock (cattle,
and Veterinary Department)	goat, poultry, feed /equipments) or
	poultry to agricultural labourer/small
	and marginal farmers.
Pine Needles Briquetting Project	Pine needles (bought at Rs. 2/kg) are
(Meghalaya State Rural Livelihoods	balled for converting it into fuel
Society)	briquettes.
Meghalaya State Aquaculture	This mission includes 6 mini missions-
Mission (Fisheries Department)	Viz., productivity, infrastructure
	development, indigenous and endemic
	species conservation, fisheries, capacity
	building, media campaigns and
	documentation.
IBDLP- Apiculture Mission	Upscale apiculture as an organised
(Meghalaya Basin Development	industrial enterprise.
Authority)	
Markov Confirmation (Communication)	Otion of the cities and the few tools in the
Master Craftsman (Commerce &	Stipend to village youth for training on
Industries Department) Placement Linked Skill Training	master crafts, handloom and handicraft. Skilling of youth in self-security,
Placement Linked Skill Training Programme (Meghalaya State Skill	Skilling of youth in self-security, hospitality, sewing, welding, automobile,
Development Society)	electrician, etc.
Chief Minister's Rural Development	Creation of wage employment on socially
Fund (Community & Rural	and economically useful public assets.
Development Department)	and economically useful public assets.
Meghalaya Tourism Development	Incentives (30 percent) of project cost for
and Investment Promotion Scheme	home stays/ resorts.
(Meghalaya Tourism Department)	nome stays/ resorts.
Clean and Green Award (State Rural	Raising environmental standards, health
Employment Society, Community &	and quality of life of rural communities.
Rural	and quanty of me of fural communities.
Development Department)	
State Plan Scheme by Social Forestry	Forestry, Environment & Ecology,
Division (Forestry Department)	Afforestation of Critically degraded
	Catchment Areas.
IBDLP-Natural Resource	Harnessing of natural resources for
Management (Meghalaya Basin	sustainable livelihood through nurseries,
Development Authority)	seed bank, water management.
Soil & Water Conservation Schemes	Reduce soil erosion, land degradation,
in General Areas (Soil & Water	water conservation, afforestation, cash/
Conservation)	horticulture crops, etc.
<u>, </u>	<u> </u>
	izoram
Support for Extension, Innovation &	Promote better farming practices and

Awareness Through Research	livelihood support.
Organisation & Training	
(Horticulture Department/ NEC)	
Pilot Project for Development of	Promoting diversified agriculture,
Horticulture & Floriculture Crops	livestock and horticulture.
(Horticulture Department/ NEC)	
Diversification of Agronomical Crops	Promote better farming practices and
(Agriculture Department/ NEC)	livelihood support.
	ıgaland
Nagaland Bee and Honey Mission	Focuses on (i) Research; (ii) Apiculture
(Department of Agriculture)	Development; and (iii) Industry and
	Marketing.
Nagaland Handloom and Handicraft	Organising exhibition, Festival Fairs,
Development Corporation Ltd.	Craft Bazaar, Handloom Expo for artisans
(Industry and Commerce	and weavers to promote products and
Department)	marketing skills.
Grant-in-Aid to Village Development	Develop infrastructure and income
Boards (Rural Development	generation activities for women and
Department)	youth.
Nagaland Bamboo Development	Promotion of bamboo based industries for
Agency	local traditional bamboo craft & design
(Agriculture Department)	and value addition for generating income.
Sikkim	
Total Literacy Mission (Human	Special training module for computer
Resource Dev.)	literacy.
Sikkim Organic Mission (Food	Organic farming support for creation of
Security & Agriculture Development)	composting /vermi-composting units;
	Integrated nutrient management / Bio-
	fertiliser/ EM technology; Integrated pest
	management; soil testing laboratory and
т	Organic certification.
Tripura Bamboo Mission (Industries	ripura Livelihoods enhancement of rural poor
& Commerce Department)	through Bamboo value addition.
Tripura Rural Livelihood Mission	Development of Producer Organisations
(Department of Rural Development)	or
(Department of Rural Development)	Clusters.
Mission for Integrated Development	Promoting diversified agricultural and
of Horticulture (Department of	allied livelihoods, including livestock and
Agriculture)	horticulture.
USTTAD (Upgrading the Skills and	Conserve traditional arts/crafts and
Training in Traditional Arts/Crafts	building capacity of traditional artisans
for Development) (Welfare of	and craftsmen.
Minorities Department)	
Tripura Rural Livelihood Mission	Formation of SHGs for promotion of
(Rural Development Department)	Micro-Enterprise.
Livelihoods of Women Through SHGs	Federating women SHG and Producers
(Ministry of DoNER)	Group.
Accelerated Irrigation Benefit &	Supports major, medium and minor
Flood Management Programme	irrigation projects, flood management and
1	
(Department of Agriculture)	
(Department of Agriculture) Clean Technology & Waste	restoration of water bodies.

of Forests) strategies. Uttarakhand Indira Mahila Samekit Vikas Yojana (Women Empowerment and Child reduction; (ii) Empowerment of w	
Indira Mahila Samekit Vikas Yojana Assistance is provided for: (i) Dru	
	1dac
Development) (iii) Job employment skills; (iv) W	
specific infrastructure and techno	
(v) Legal literacy and awareness; W rights; (vi) Health and education o	
	Jomen
entrepreneurship; (viii) Support to w	
SHGs.	vomen
Bee Keeping (Sericulture Support for bee keeping, collection	n and
Department) processing of honey, etc.	
Garden Rejuvenation Scheme Support for rejuvenating of orchard	ls and
(Horticulture Department) plantations.	
Scheme of Fruit Plants Plantation Supports fruit plantations and no (Horticulture Department) raising.	ursery
Mukhya Mantri Sanrchhit Udyan Promotes diversified agriculture, live	estock
Vikash Yojana (Horticulture and horticulture, polyhouses to	
Department) nursery.	020000
Horticulture Insurance Scheme Supports insurance coverage of fail	ure of
(Horticulture Department) notified crop due to natural calar	nities,
pests & diseases.	,
Spice Mega Park Scheme Mega parks are constructed to	boost
(Horticulture Department) production and quality of spices.	
Medicinal and Aromatic (MAP) Support in the form of 50 percent su	absidy
Development (Uttarakhand State to the growers for mass cultivation	of 26
Medicinal Plant Board) MAP species.	
CM Jadi Buti Yojana (Herbal and Financial assistance for cultivati	on of
Aromatic Plants) medicinal plants.	
Distribution of Water Pump, Subsidy for procurement of	farm
Sprinkler Set, etc. (Agriculture machineries, etc.	
Department)	
Seed Production Programme / Core Supports production and cultivati	on of
Village Scheme (Agriculture selective seeds.	
Department)	~ - F- ··
Establishment of Poly House / Subsidy is provided for poly hou Mechanisation (Agriculture raising horticulture seed	
Mechanisation (Agriculture raising horticulture seed Department) floriculture, etc.	dlings,
Construction of Agri. Input Stores Supports entrepreneurs for setting	າດ ນາ
(Agriculture Department) Supports endepreneurs for setting farm machinery store, seed, fertilized	
Post-Harvest Management Technical assistance for post h	•
(Horticulture Department) management of food grains.	ai vest
Scheme of Power Machine (Tractor Farm machineries to farmers / fa	rmers
/Power Tiller) (Horticulture group.	.111010
Department)	
Uttarakhand Decentralized Focuses on: (i) watershed and n	atura1
. ,	easing
Gramya Yojana (Directorate of productivity on arable lands;	U
Watershed Management) agribusiness development and alter	
livelihoods.	
Integrated Livelihood Support Project Watershed management for food se	curity
(Directorate of Watershed and livelihood enhancement.	

Management)	
Construction/ Renovation of Canals	Construction of canals/ water channels
(Irrigation & Flood Control	for irrigation.
Department)	3
Drought Prone Area Programme	Minimise the negative effects of drought
(Rural Development Department)	on production of crops and livestock.
Integrated Wasteland Development	Wasteland development by afforestation
Projects (Rural Development	and plantation of timber wood, bamboo,
Department)	etc.
Plantation in Reserve & Civil Soyam	Plantation for regeneration of forest.
Forest (Forestry & Wildlife	
Department)	
Plantation of Bamboo Species,	Bamboo plantation in the fallow and
Biofuel Species (Forestry & Wildlife	waste land.
Department)	
Catchment Area Conservation and	(i) Rejuvenation of natural water sources;
Management Plan (Water Supply &	(ii) Rain water harvesting; (iii) Plantation
Sanitation Department) Bio-Energy (Non-Conventional	of broad leaf species. Biogas Plants with capacity ranging 2- 4
Bio-Energy (Non-Conventional Energy Department)	Cum are installed.
Solar Energy (Non-Conventional	(1) Solar Photovoltaic (i) Solar lantern; (ii)
Energy Department)	LED based solar street lights/home
Energy Department)	lights; (iii) Solar power plant. (2) Solar
	Thermal (i) Solar water heater; (ii) Solar
	cooker; and (iii) Solar steam cooking
	systems.
Establishment of Ayush Gram	Ayush Gram establishment for cultivation
(Department of Medical Health and	of medicinal plants for traditional health
Family welfare)	care system.
Organic finger millet production	Supports construction of agriculture
Programme (Agriculture Department)	stores and cultivation of organic finger
	millets.
West Bengal(Darjeeling)	
Free Crop Insurance Scheme (Bangla	Government will pay full premium for
Shashya Bima) (Government of West	selected crops (aman paddy, aus paddy,
Bengal)	jute and maize) to farmers in 15
	districts.
SHAHY (Department of Panchayats	Targets people not covered under poverty
& Rural Devp.)	alleviation and social security
	programmes.

Constraints / Limitations in Implementation of the Schemes & Recommendations:

In spite of a vast spectrum of schemes /programmes /projects on rural development and famers welfare in the IHR the desirable outcomes are always debated. Understandably, there could be various constraints specific to one scheme or the other that makes an area of further investigation. In the Himalayan mountain context it has been argued that constraints such as: easy access of institutional finance, enabling credit guidelines and also the

existing laws and policies are not women-friendly to negotiate their roles in households, communities, and market (Resurrección et al. 2019). This is because men out- migrate in large numbers leaving women to manage agriculture, marketing or public institutions. This results in undervaluation of the role of women in most policy making processes. In this context, the MGNERGA scheme has become a community-led social movement with large participation of women thereby increasing their purchase power to uplift their living standard, health care and education of their children (Tambe et al. 2012). Skill and capacity of the rural people in executing these schemes is another limitation. The 2018 Report of emphasizes that skill and entrepreneurship development in the IHR needs to focus on supporting emerging priority sectors and suitably empower the Skill India Mission and convergence ensure of Central and State Government schemes/programmes (Anonymous, 2018). There is also a need to incentivize investments in skill and entrepreneurship development by public, private and development organizations, with particular focus on enhancing capacities of vulnerable groups (Anonymous, 2018). While examining the environmental implications of its schemes, the Ministry of Rural Development recommended measuring and tracking, incentives and capacity building of stakeholders. For example, it has been reported that Uttarakhand (Rawat et al. 2010) the potential of S&T has not been adequately harnessed to overcome the development constraints emphasizing the need for establishment of technology resource centres for management of locally available bio-resources through people's participation. Singh (1987) pointed out that implementation of poverty alleviation programmes suffer from a multitude of problems due to lack of infrastructure avoiding benefits to the poorest section up to the desired level. Murari (1988), suggests that all development programmes should be initiated after adequate understanding of the social, political and operational aspects. Another study on "Doubling of Farmer's Income by 2022" found that it is not the absence of government sponsored schemes, rather the absence of appropriate information about the schemes and institutional delivery mechanism and capacity of stakeholders behind the success of the programmes

(Negi et al. 2022). It can be concluded that there is a need to evolve new paradigm to restore balance between economic interest and ecological imperatives with due regards to socio-ecological considerations to achieve sustainable development in the ecologically fragile IHR (Singh, 2006).

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