

Japan International Cooperation Agency (JICA)

**Forest Department
The State of Uttarakhand, India**

**The Preparatory Survey
for
Uttarakhand Forest Resource
Management Project
in India**

**Final Report
Volume I I I: Attachment**

February 2014

NIPPON KOEI CO., LTD.

ATTACHMENT

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Measurement Units

Extent	Weight
1 km ² = 100 ha	1 Quintal / qtl. = 100 kg
1 acres = 0.40468ha	

Number	Currency
Lakh = 100,000	Rs. = Indian Rupees (INR)
Crore = 10,000,000	JPY = Japanese Yen
	USD = \$ =United State Dollars

Exchange Rate

Rs.1.0 = JPY 1.56 USD 1.0 = Rs.63.8 USD 1.0 = JPY 99.2
(As of October 2013)

Attachment 2.2.1 Socio-Economic Profile of Uttarakhand

(1) Literacy Rates in Uttarakhand

No	Districts	Person	Male	Female
1 U	Uttarkashi	75.98	89.26	62.23
2 Cham	oli	83.48	94.18	73.20
3 Tehri	Garhwal	75.10	89.91	61.77
4 D	ehradun	85.24	90.32	79.61
5 Pauri	Garhwal	82.59	93.18	73.26
6 Rudra	prayag	82.09	94.97	70.94
7 Pithor	agarh	82.93	93.45	72.97
8 A	lmora	81.06	93.57	70.44
9 N	ainital	84.85	91.09	78.21
10 Cham	pawat	80.73	92.65	68.81
11 Bages	hwar	80.69	93.20	69.59
12 H	aridwar	74.62	82.26	65.96
13 U	.S. Nagar	74.44	82.48	65.73
	Uttarakhand	79.63	88.33	70.70

Source: Census of India 2011. Estimation of literacy rates by JICA Survey Team

(2) No of Health Facilities and Population Coverage

District	Primary Health Centre		Community Health Centre	
	No	Population/ centre	No	Population/ centre
Almora 30		41,500	4	311,253
Bageshwar 12		43,316	2	259,898
Chamoli 13		60,247	5	156,642
Champawat 2		259,648	2	259,648
Dehradun 21		161,590	7	484,770
Pauri Garhwal	27	50,909	5	274,908
Haridwar -		-	-	-
Nainital 19		100,485	4	477,303
Pithoragarh -		-	-	-
Rudraprayag 13		37,275	na	-
Tehri Garhwal	30	41,262	5	247,572
U. S. Nagar	-	-	-	-
Uttarkashi 13		50,782	3	220,057
Total 18	0	112,070	37	545,205

Source: San khyaki Pa trika. Year 201 1. Ka ryalaya Arth Evam Sankhya Adh ikari. GOUK. (Statistical Magazine Year 2011. Economics and Statics Office, GOUK); Estimation of population coverage was estimated by JICA Survey Team using Demographic data of Census of India 2011 data.

(3) Basic Infrastructure Statistics

	Districts	Road Connectivity (road (km)/1,000 km ²)	Household Electrification (%)	Household Drinking Water Supply (%)	Household Toilets (%)
1	Uttarkashi	162.23	79.06	42.87	43.73
2	Chamoli	159.65	83.40	37.11	53.14
3	Tehri Garhwal	548.05	87.82	32.25	55.79
4	Dehradun	733.35	96.29	81.04	86.45
5	Pauri Garhwal	1,305.00	89.04	36.17	55.31
6	Rudrapur	423.46	91.94	30.17	52.85
7	Pithoragarh	212.69	85.55	41.76	55.17
8	Almora	697.67	78.90	26.12	55.26
9	Nainital	885.20	90.32	62.85	79.50
10	Bageshwar	313.00	81.58	24.80	54.76
11	Champurawat	370.33	72.05	36.64	46.38
12	Haridwar	1,333.04	85.76	75.85	66.62
13	U.S. Nagar	1,239.41	84.92	80.98	69.27
	State Avg/Total		87.04	58.25	65.77

Source: Uttarakhand Statistical Handbook (2011-12)

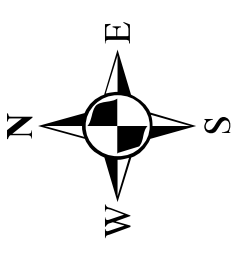
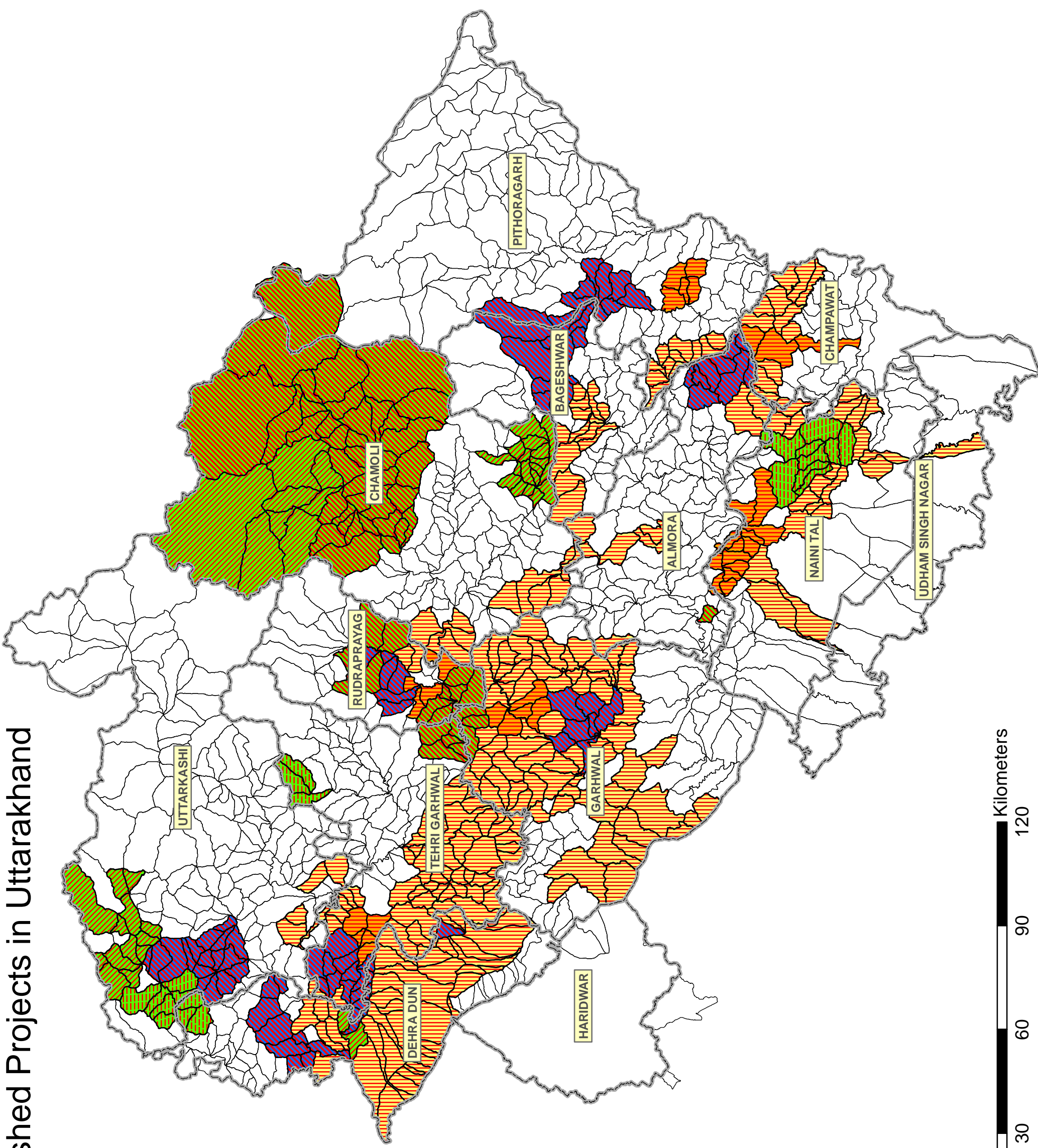
Attachment 2.7.1 Projects/ Programs on Watershed Management, Forestry Sector and Livelihood Improvement

Sl	Project/ Program	Name of Implementing Agency	Name of Supporting agency	Area of Implementation District /Block	Key Activities	Description and Current Status of the project.	Source of Information
1	Uttarakh and Livelihood Improvement in Himalayas (ULIPH)	Uttarakhand GramyaVikas Samiti, Dehradun.	International Fund for Agriculture Development and Government of India.	Almora (Lamgara, Bhasiyachhana, Dhauladevi) Bageshwar (Kapkot, Bageshwar) Chamoli (Dasoli, Dewal, Narayanbagad, Ghat) Tehri (Bhilangana, Pratapnagar, Jounpur, Devpriyag) Uttarkashi (Mori, Dunda, Naogaon, Purola)	Organic farming Livelihood Dairy, Eco-tourism, Off-farm activities Off Season vegetables, Poultry, Medicinal and aromatic plants Marketing	The project was focusing on strengthening of weaker sections of rural hill communities through institutionalization and livelihood development activities. Completed in 2013 (2004-13)	Mr. Pawan Kumar, CEO, UPASC. Panditwad, Dehradun, www.ugvs.org ULIPH: An Introduction. GramyaVikasSamiti. Dehradun.
2	Integrated Livelihood Support Project	Uttarakhand GramyaVikas Samiti, and WMD Dehradun.	International Fund for Agriculture Development and Government of India.	Almora (Lamgara, Bhasiyachhana) Bageshwar (Kapkot, Kanda, Bageshwar, Garud) Chamoli (Dasoli, Dewal, Kampriyag) Tehri (Pratapnagar, Jounpur, Chamba, Devpriyag) Uttarkashi (Mori, Dunda, Barkot, Purola)	Livelihood improvement Community Institutionalization Convergence Rural health and sanitation. Micro-finance Marketing	Launching in 2013. The project is further strengthening livelihood interventions of the ULIPH with a focus on institutional strengthening and marketing.	Mr. Pawan Kumar, CEO, UPASaC. Rauthal House, Panditwadi, Dehradun, www.ugvs.org
3	Uttarakh and Decentralized Watershed Development Project (GRAMYA)	Uttarakhand Watershed Management Directorate, Dehradun.	World Bank	Almora-Chokhutia, Dwarahat Bageshwar-Kapkot, Garur, Bageshwar Rudrapriyag-Agustmuni Uttarkashi-Chinyalisour. Pithoragarh-Gangolihat Champawat-Lohaghat,Barakot Nainital-Okhalkanda,Dhari Dehradun-Kalsi TehriGarhwal-Jaunpur,Thauldhar Paurigarhwal-Dwarikkhal,Jairikkhal Chamoli- Gairsain	Soil Water conservation Off season vegetable cultivation and marketing support Farm Technology Value addition and processing Institutionalization of rural community Training and capacity building of community	The project was supported on 77.9 % (WB) and 18.6 % (State Government) and 3.5 % beneficiary contribution basis. The project components include decentralized institution setup, financial autonomy to PRIs social mobilization, women participation, and participatory monitoring. Phase-I completed in 2012 (2004-12)	Mr. D J K Sharma, Watershed Management DirectorateDehradun, 0135-2760170 sharmadjk@yahoo.co.in www.gramya.nic.in

Sl	Project/ Program	Name of Implementing Agency	Name of Supporting agency	Area of Implementation District /Block	Key Activities	Description and Current Status of the project.	Source of Information
4	Uttarakh and Decentralized Watershed Development Project (GRAMYA-Phase 2)	Uttarakhand Watershed Management Directorate, Dehradun.	World Bank	Almora Rudrapriyag Uttarkashi Pithoragarh Pauri Tehri Nainital, Dehradun.	Soil Water conservation Institutionalization of rural community Training and capacity building of community	II phase proposed.	Mr D J KSharma, Watershed Management Directorate,Dehradun, 0135-2760170 sharmadjk@yahoo.co.in www.gramya.nic.in
5	Sustainable Land and Ecosystem Management (SLEM) project	Uttarakhand Watershed Management Directorate, Dehradun	Global Environment Facility project	Rudrapriyag Uttarkashi Bageshwar Nainital	Support to enhancing the sustainability of watershed management activities. (Soil Water Conservation Medicinal Plant cultivation Livelihood hood support)	2009-2013 -	
6	Integrated Watershed Management Program	WMD	100 % GOI, Ministry of Land and Resources	All districts in Phased manner	Natural resource management Tank construction, Plantation, Soil conservation activities	2010-2028 Watershed	Management Directorate Uttarakhand. Dehradun.
7	Uttarakh and Compensatory Afforestation Fund Management & Planning Authority	CAMPA/ FD	100%, UCAMPA, GOI	Forest Divisions	-Plantation -Skill up gradation /training -Maintenance of existing water holes/bodies -Nursery raising for VP	2009-ongoing	Ms. Jyotsana Sitling, CEO.5 Mandir Marg, Vasant Vihar,Enclave, Dehradun. 0135-2761077 jsitling@yahoo.com/coukcampa@gmail.com www.ukcampa.org

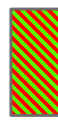
Source: Compiled by JICA Preparatory Survey Team

Watershed Projects in Uttarakhand




Legend

GRAMYA-2
 Ongoing


CAT
 Ongoing

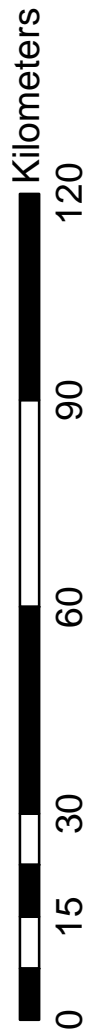
 Approved

 Under Process

IFAD
 Completed

Externally Aided Projects

(Bhimtal, DVP, HIM-IWMP, IWDP, SB-I, SB-II, UDWDP)
 Completed

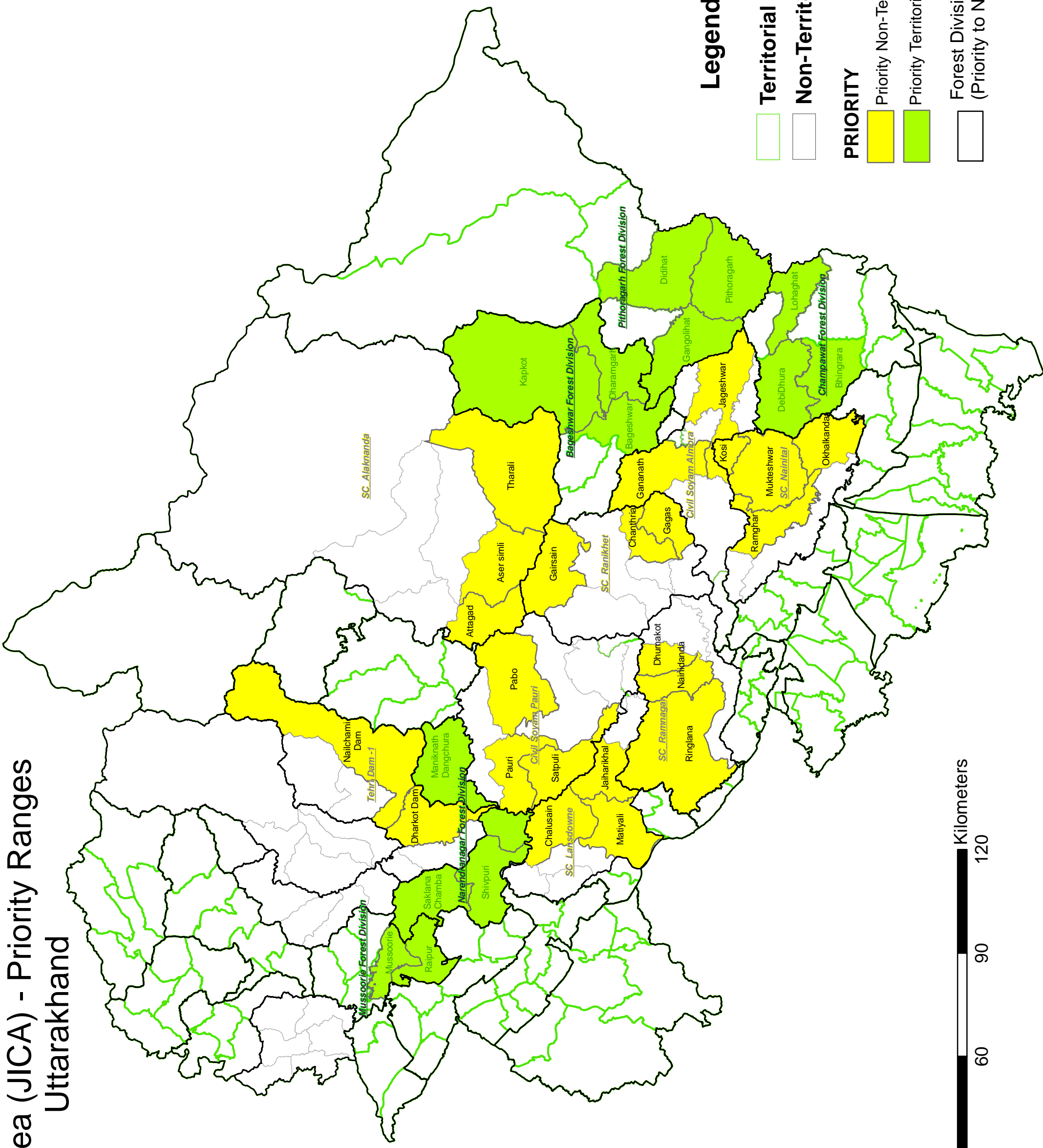
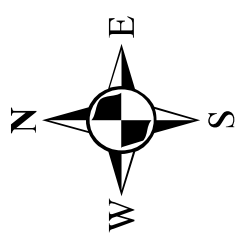


Attachment 2.7.3 List of Districts and Blocks covered by Watershed Management/ Livelihood Projects

Project / Program	ULIPH	ILSP		UDWDP-I	UDWDP-II	SLEM	IWMP							
Funding Source	IFAD	IFAD		World Bank	World Bank	GEF								
Year	2004 - 2013	2013 - 2019		2004-2012	2013 - 2020	2009-2013								
Implementing Agency	UGSD	UGSD	WMD	WMD	WMD	WMD								
District	No and Names of the Blocks		No and Names of the Blocks		No and Names of the Blocks		Blocks	No and Names of the Blocks		Blocks covered				
	No	Names	No	Names	No	Names	No	Names	No	Names				
Almora	3	Lamgara, Dhauladevi, Bhasiyachhan ^a	8	Lamgara, Bhasiyachhana, Dhauladevi, Syaldeh, Salt, Bhikiasain, Chaukhutia, Hawalbagh			2	Chokhutia, Dwarahat	-	Selection in progress	-	-	Chaukhutia, Bhikiyasain, Hawalbag, Takula, Syldeh, Tarikhet, Dwarahat, Sult	
Nainital					2	Betalghat, Ramgarh	2	Okhalkanda, Dhari	-	Selection in progress	1	Okhalkanda, Dhari	-	Ramgarh, Dhari, Haldwani, Betlaghat
US Nagar									-				-	Bajpur, Kashipur, Gadarpur, Jaspur,
Almora									-				-	
Bagheshwar	2	Kapkot, Bageshwar	3	Kapkot, Bageshwar, Garud			3	Kapkot, Garur, Bageshwar	-		1	Kapkot	-	Kapkot, Bageshwar, Garud, Takula
Pithoragarh					3	Kanalichhena, Pithoragarh, Munakot	1	Gangolihat	-	Selection in progress			-	Dharchula, Didihat, Kanalichhina, Berinag, Gangolihat, Munakot
Champawat					3	Pati, Chamapawat, Dandot	2	Lohaghat, Barakot	-				-	Pati, Champawat, Lohaghat
Dehradun							1	Kalsi	-	Selection in progress			-	Chakrata
Pauri					2	Pabau, Eikeshwar	2	Dwarikhal, Jaiharikhal	-	Selection in progress			-	Kotdwar, Pauri, Birokhal, Thalishain,
Tehri	4	Pratapnagar, Jounpur, Devpriyag, Bhilangana	5	Chamba, Bhilangana, Jounpur, Devprayag, Pratapnagar	1	Jounpur	2	Jaunpur, Thauldhar	-	Selection in progress			-	Bhilangana, Narendranagar
Chamoli	4	Dasoli, Dewal, Ghat, Narayanbagar	5	Dasoli, Ghat, Dewal, Narayanbagar, Tharali			1	Gairsain	-				-	Dasoli, Narayan bagad, Karnpriyag, Pokhari, Ghat
Rudraprayag 2						Agustmuni, Jakholi	1	Agustmuni	-	Selection in progress	1	Agustmuni	-	Agustmuni, Jakhol, Ukhimath
Uttarkashi	4	Mori, Naugaon, Dunda,	5	Naugaon, Mori, Bhatwadi,			1	Chinyalisour	-	Selection in progress	1	Chinyalisour	-	Purola, Naugaon, Mori
Haridwar									-				-	Rurkee, Kashipur, Narsen, Laksar,
Total no of Blocks covered	17		26		13		18		-		4		-	

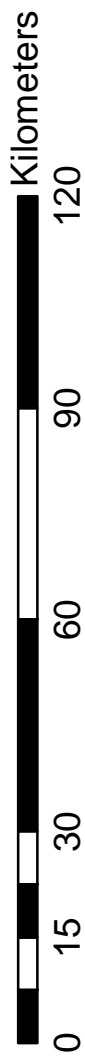
Source: Compilation from Various sources by JICA Preparatory Su

Project Area (JICA) - Priority Ranges Uttarakhand



Legend

- Territorial Ranges
 - Non-Territorial Ranges
- PRIORITY**
- Priority Non-Territorial Ranges
 - Priority Territorial Ranges
- Forest Division Boundaries (Priority to Non-Territorial Boundaries)



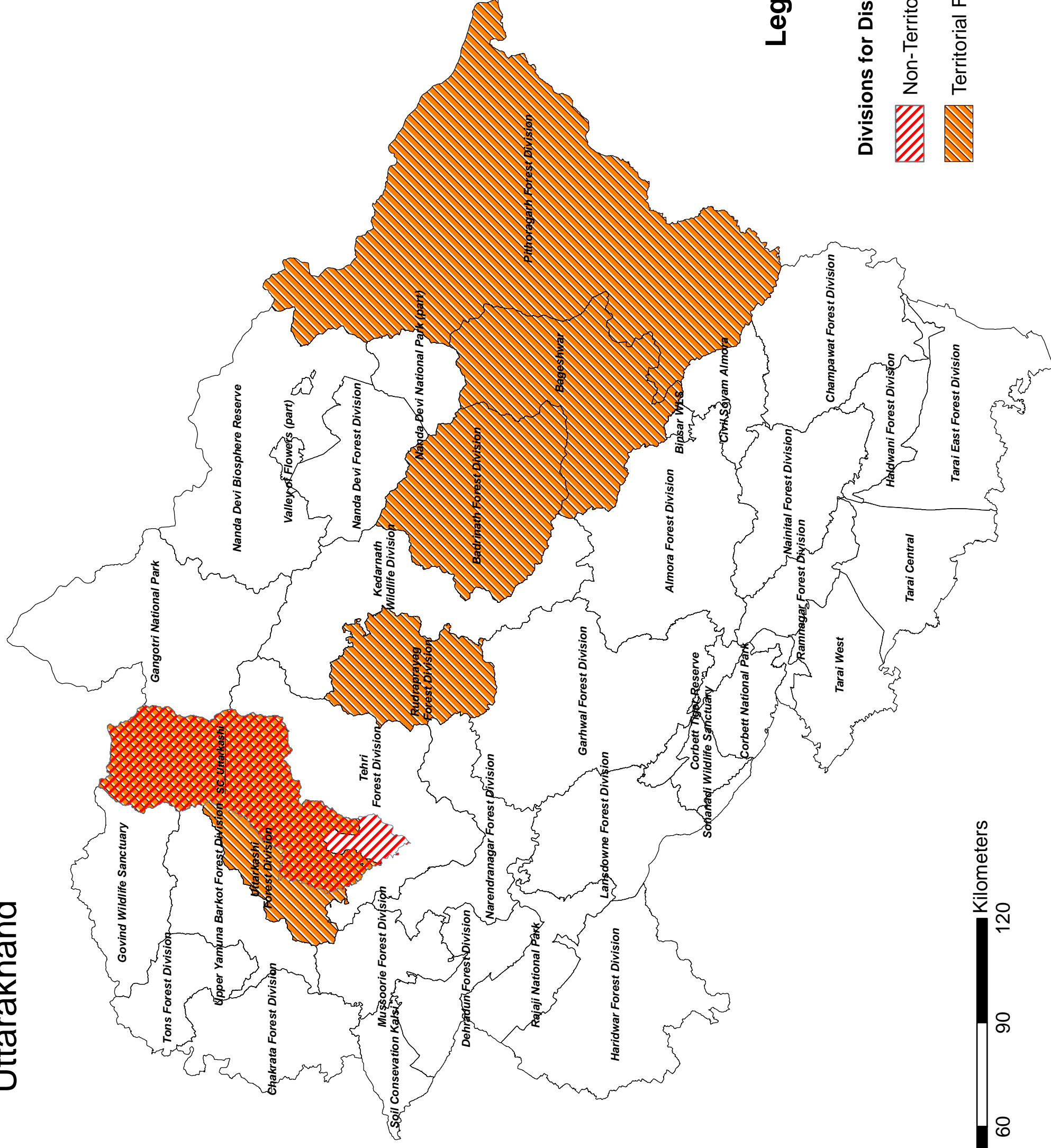
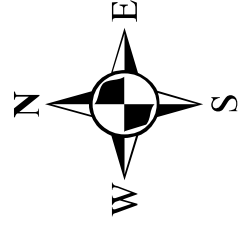
Attachment 3.1.2 List of Recommended Priority Ranges and their District and Tehsil (Sub-District)

S.No.	Range	Overlapping District	Overlapping Tehsil
1	Asersimli	Chamoli	Tharali, Gairsain, Karnaprayag
2	Attagad	Chamoli	Gairsain, Karnaprayag
3	Tharali	Chamoli	Tharali
4	Gananath	Almora	Almora,
5	Jageshwar	Almora	Almora
6	Kosi	Almora	Almora
7	Mukteshwar	Almora, Nainital	Almora, Dhari, Kosya Kutauli, Nainital
8	Okhalkanda	Nainital	Dhari, Nainital
9	Ramghar	Nainital	Kosya Kutauli, Nainital
10	Pabo	Pauri Garhwal	Pauri, ThaliSain
11	Pauri	Pauri Garhwal	Pauri
12	Satpuli	Pauri Garhwal	Lansdowne, Pauri
13	Chalusain	Pauri Garhwal	Kotdwara, Lansdowne
14	Jaiharikhal	Pauri Garhwal	Lansdowne
15	Matiyali	Pauri Garhwal	Kotdwara, Lansdowne
16	Ringlana	Pauri Garhwal	Dhoomakot, Lansdowne
17 D	humakot	Pauri Garhwal	Dhoomakot
18	Nainidanda	Pauri Garhwal	Dhoomakot
19 C	hanthria	Almora	Ranikhet
20 G	agas	Almora	Almora, Ranikhet
21	Gairsain	Chamoli	Gairsain
22	Dharkot Dam	Tehri Garhwal	Devprayag, Ghansali, Pratapnagar
23	Nailchami Dam	Tehri Garhwal	Ghansali, Pratapnagar
24	Kapkot	Bageshwar	Bageshwar, Kapkot
25	Dharamgarh	Bageshwar, Pithoragarh,	Bageshwar, Kapkot, Didihat,
26	Bageshwar	Bageshwar, Almora	Bageswar, Kapkot, Almora,
27	Lohaghat	Champawat	Champawat
28	Bhingrara	Champawat, Nainital,	Champawat, Dhari
29	DebiDhura	Almora, Nainital, Champawat	Almora, Dhari, Champawat,
30	Maniknath Dangchura	Tehri Garhwal, Pauri Garhwal	Devprayag, Narendranagar, Pauri, Srinagar
31	Shivpuri	Tehri Garhwal	Narendranagar
32	Saklana	Tehri Garhwal	Tehri, Narendranagar
33	Pithoragarh	Pithoragarh	Pithoragarh, Gangolihat
34	Didihat	Pithoragarh	Didihat, Munsiri, Pithoragarh
35	Gangolihat	Pithoragarh	Didihat, Gangolihat, Pithoragarh
36	Mussoorie	Dehradun, Tehri Garhwal	Dehradun, Tehri
37	Raipur	Dehradun, Tehri Garhwal	Dehradun, Tehri

Source: JICA Preparatory Survey Team

Target Divisions for Disaster Mitigation Measures

Uttarakhand



Legend

Divisions for Disaster Mitigation Measures

Non-Territorial Forest Division

Territorial Forest Division

