

Zonal Plan For Eco-sensitive Zone

**Department of Agriculture
District: - Uttarkashi**

Zonal Plan for Eco- Sensitive Zone by Department of Agriculture

A meeting roster was issued by the office of District Magistrate Uttarkashi (No. 5720/21-04(2010-11) dated 15-09-2015). For the preparation of Zonal plan, to generate awareness about the notification of Eco Sensitive zone and receive the suggestions of local people while making zonal plan.

S. No.	Name of participant villages	Meeting Spot	Date and Time
1	Mukhwa, Dharali, Harsil, Bagori, Jhala, Purali, Jaspur, Sukhi, Gagotri, Jadung	Govt. Inter Collage Harsil	22-09-2015, 11:00 A.M.
2	Gagnani, Huri, Bhangeli, Tihar, Sungar, Bhukki, Salang, Sanglai.	Junior High School, Sungar	24-09-2015, 11:00 A.M.
3	Bhatwari, Bandrani, Kyark, Pahi, Dwari, Barsu, Gauriali, Kujjan, Saura, Sari, Lata, Kumalti, Raithal, Nateen, Silla, Pilang, Joudau, Sainj, Bhelatipri, Jakhol, Malla, Saloo, Sayaba.	Block Metting Hall, Bhatwari	29-09-2015, 11:00 A.M.
4	Netala, Gawana, Heena, Maneri, Ganeshpur, Jamak, Bayana, Didsari, Kamar.	Govt. Inter Collage, Netala	01-10-2015, 11:00 A.M.
5	Gangori, Agoda, Dasda, Bhankoli, Naugaon, Gajoli, Seku, Utroon, Nald, Sangrali, Pata, Bagyalgaon, Khandgaon, Siror, Aoungi.	Govt. Inter Collage, Gangori	03-10-2015, 11:00 A.M.
6	Uttarkashi, Tiloth, Thalan, Mando, Silyan, Nismor, Nirakot, Mastadi, Manpur, Ladari, Kuroli, KotiyalGaon, Kishanpur, Kankrari, Kaneth, Josiyara, Bonga, Aleth, Dhanpur, Doha, Gyanja.	Suman Sabhagar Hall, Uttarkashi	05-10-2015, 11:00 A.M.

No suggestion comes from local people as meeting was boycotted by the local people. The department of Agriculture ----- Input distribution of inputs such as certified seeds, fertilizers, plant protection chemicals, it also comes out crop demonstration, technology transfer soil and water conservation, soil erosion control, rain water harvesting, protection of agriculture land form wild animals, soil testing, soil treatment. Plantation of fodder and horticultural plants is also done under different development schemes of increasing production of agriculture. All these works are eco-friendly and increase livelihood of local people.

Geographical Introduction:

Total geographical area of 88 villages of Block Bhatwari Under eco-sensitive zone is 14136.35 hectare. Out of this forest area is 1047.379 hectare, waste land is 478.857 hectare, land other than agriculture use is 7975.223 hectare, and total agriculture land is 4631.692 hectare (503.554 hectare Irrigated and 4127.692 hectare).

Economy:

For the economics point of view Agriculture work is the back bone of 88 villages of block Bhatwari which falls under eco-sensitive zone. There are two main crop seasons. In

Kharif season paddy, amaranths, finger millets, maize, soybean, pigeon pea, and black gram crops are cultivated. In Rabi season wheat, barley, horse gram, lentil, pea and mustard crops are cultivated.

Organisational Structure of Agriculture department in the Area:

Seven Nyay panchayat (Harsil, Bandrani, Saura, Gangori, Sald, Mustikaud and Joshiyara) of Bhatwari block come under Agriculture and Soil Conservation Unit Uttarkashi. In the unit Agriculture and soil conservation officer, Assistant agriculture officer grade-1, Additional Assistant engineer, in block level Block In charge (Agriculture), seed store in charge, one fourth class employee are posted and at each Nyay Panchayat level one Agriculture Sale Center is established, in which Assistant Agriculture officer grade-3 and Agriculture Assistant are posted. From these sales centers distribution of certified seeds, plant protection chemicals, small agriculture implements, soil and water conservation works are carried out information about different development scheme is provided to the farmers.

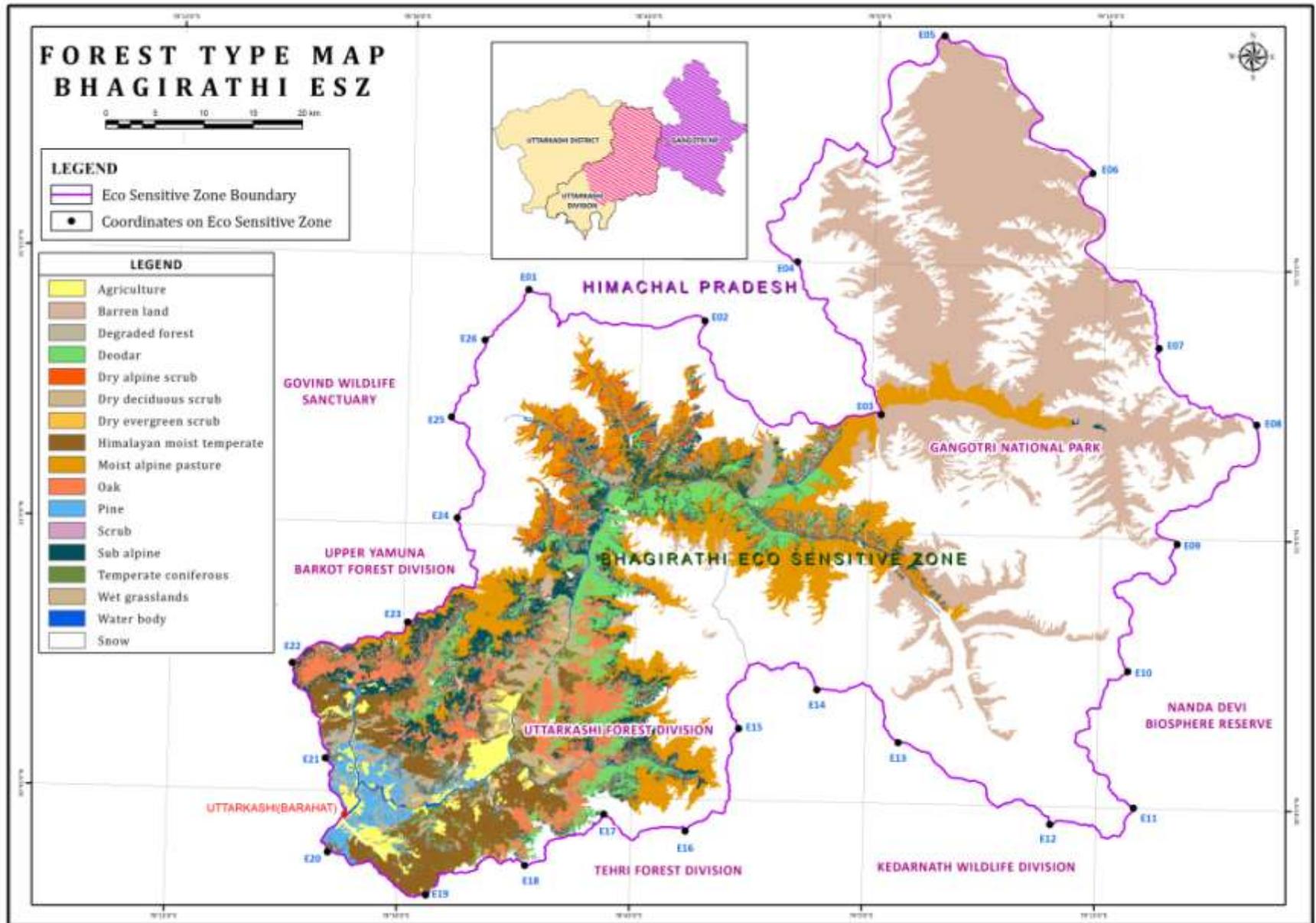


Table 1

S. No.	Name of Nyaypanchayat	Name of Village	Total Geographical area in Ha.	Total forest area in Ha.	Water logged area	Land uses other the agriculture	Area where agriculture not possible	Irrigated	Un-irrigated	Total	Population Acc. To Census 2011
1	Harsil	Gangotri	14.415	0.000	3.940	10.475	0.000	0.000	0.000	0.000	110
2	Harsil	Jadung	282.543	30.000	14.413	238.130	0.000	0.000	0.000	0.000	0
3	Harsil	Nelang	400.860	0.000	15.660	382.200	0.000	0.000	0.000	0.000	0
4	Harsil	Mukhwa	293.947	10.000	42.315	132.467	0.000	0.000	109.165	109.165	680
5	Harsil	Dharali	327.033	11.000	21.103	151.831	0.000	0.000	143.099	143.099	583
6	Harsil	Bagori	16.008	0.000	0.000	5.926	0.000	0.000	10.082	10.082	568
7	Harsil	Harsil	26.945	0.000	2.576	14.324	0.000	0.000	10.045	10.045	135
8	Harsil	Purali	178.732	3.540	3.862	118.817	0.000	0.000	52.513	52.513	253
9	Harsil	Jhala	259.227	4.372	16.781	124.830	0.000	0.000	113.244	113.244	644
10	Harsil	Jaspur	192.793	2.714	0.025	130.749	0.000	0.000	59.305	59.305	286
11	Harsil	Sukhi	419.909	4.058	4.280	304.657	0.000	0.000	106.914	106.914	525
12	Bandrani	Bhangeli	284.311	6.781	6.408	223.563	0.000	0.000	47.559	47.559	274
13	Bandrani	Sungar	24.880	4.789	0.060	8.279	0.000	0.000	11.752	11.752	96
14	Bandrani	Tihar	403.783	8.087	13.082	294.574	0.000	0.000	88.040	88.040	459
15	Bandrani	Kujjan	197.677	3.710	1.458	148.682	0.000	0.000	43.827	43.827	442
16	Bandrani	Barsu	145.884	3.256	0.551	75.309	0.000	0.000	66.728	66.728	699
17	Bandrani	Pala	399.537	5.221	9.700	267.764	0.000	5.721	112.131	117.852	340
18	Bandrani	Kyark	69.649	0.000	0.461	33.750	0.000	2.823	32.615	35.438	354
19	Bandrani	Raithal	375.069	5.617	5.063	153.099	0.000	5.824	205.466	211.290	982
20	Bandrani	Bandrani	106.459	11.283	0.301	50.740	0.000	3.107	41.028	44.135	312

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21	Bandrani	Bhatwari	115.598	3.264	7.022	78.817	0.000	0.000	26.495	26.495	1157
22	Bandrani	Nateen	85.731	4.285	0.212	44.358	0.000	0.000	36.876	36.876	198
23	Bandrani	Dwari	226.058	16.419	1.668	129.356	0.000	0.000	78.615	78.615	468
24	Bandrani	Pahi	84.624	14.448	0.223	30.393	0.000	0.130	39.430	39.560	338
25	Bandrani	Malla	190.920	15.112	7.695	91.557	0.000	1.400	75.156	76.556	849
26	Bandrani	Lata	85.113	19.565	3.038	32.689	0.000	0.029	29.792	29.821	401
27	Bandrani	Kumalti	34.138	0.000	0.719	20.497	0.000	0.807	12.115	12.922	295
28	Saura	Gaursali	657.690	25.940	1.063	465.520	0.000	0.000	165.167	165.167	831
29	Saura	Jonkani	82.891	8.034	0.174	65.513	0.000	0.109	9.061	9.170	109
30	Saura	Sainj	151.454	3.005	4.198	118.081	0.000	5.692	20.478	26.170	352
31	Saura	Jakhol	277.057	9.730	0.655	221.934	0.000	0.000	44.738	44.738	271
32	Saura	Aungi	104.394	3.257	5.879	57.628	0.000	0.000	37.630	37.630	301
33	Saura	Kaneth	54.181	6.560	2.341	39.311	0.000	0.063	5.906	5.969	6
34	Saura	Maneri	218.528	22.860	12.603	139.316	0.000	13.230	30.519	43.749	1196
35	Saura	Didsari	85.260	3.958	1.970	48.138	0.000	7.075	24.119	31.194	1023
36	Saura	Bayaha Lonthru	203.700	6.090	2.255	95.742	0.000	0.000	99.613	99.613	576
37	Saura	Jamak	117.440	6.944	19.670	59.063	0.000	12.352	19.411	31.763	355
38	Saura	Kamar	148.240	3.202	2.820	69.616	0.000	11.534	61.068	72.602	463
39	Saura	Syaba	190.115	5.901	0.391	102.183	0.000	0.000	81.640	81.640	475
40	Saura	Saloo	179.720	8.569	0.839	116.622	0.000	0.000	53.690	53.690	263

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41	Saura	Sari	486.413	8.008	0.039	340.746	0.000	0.000	137.620	137.620	443
42	Saura	Sura	134.379	3.541	6.662	68.536	0.000	11.104	44.536	55.640	512
43	Saura	Bhelatipri	200.170	40.000	9.564	121.551	0.000	0.000	29.055	29.055	153
44	Saura	Salang	392.298	50.000	7.178	282.918	0.000	3.812	48.390	52.202	430
45	Saura	Bhukki	87.588	18.892	2.665	44.611	0.000	0.000	21.420	21.420	154
46	Saura	Hurri	259.867	28.000	5.177	179.983	0.000	0.000	46.707	46.707	313
47	Saura	Silla	336.384	10.000	2.867	246.452	0.000	0.000	77.065	77.065	492
48	Saura	Pilang	286.680	30.000	2.151	169.115	0.000	0.000	85.414	85.414	349
49	Saura	Jodaw	79.470	10.000	2.178	47.275	0.000	0.000	20.017	20.017	133
50	Gangori	Naugaon	367.506	18.093	4.436	298.368	0.000	0.000	46.609	46.609	517
51	Gangori	Gajoli	225.471	20.464	5.496	125.375	0.000	29.612	44.524	74.136	709
52	Gangori	Bhankoli	420.504	35.589	0.205	281.207	0.000	0.000	103.503	103.503	470
53	Gangori	Dasda	67.980	6.898	0.040	37.771	0.000	0.000	23.271	23.271	187
54	Gangori	Dadanlka	81.786	6.948	1.009	41.368	0.000	0.000	32.461	32.461	142
55	Gangori	Agoda	143.612	4.567	0.655	73.241	0.000	0.000	65.149	65.149	442
56	Gangori	Seku	146.277	9.840	0.158	93.088	0.000	6.448	36.743	43.191	343
57	Gangori	Uttroon	182.216	4.360	7.438	64.455	0.000	26.064	79.899	105.963	824
58	Gangori	Nald	174.341	15.248	1.129	55.195	0.000	9.630	93.139	102.769	931
59	Gangori	Gawana	195.745	25.611	13.078	96.777	0.000	20.503	39.776	60.279	1193
60	Gangori	Pata	83.343	0.986	0.845	42.958	0.000	0.000	38.554	38.554	384
61	Gangori	Siroor	174.390	11.245	27.375	61.904	0.000	13.418	60.448	73.866	757

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62	Gangori	Netala	164.390	10.295	14.415	59.267	0.000	22.472	57.941	80.413	1310
63	Gangori	Heena	132.736	5.044	11.795	68.856	0.000	7.930	39.111	47.041	735
64	Gangori	Gangori	52.085	0.227	6.231	20.084	0.000	20.044	5.499	25.543	17980
	Gangori	Badahat	192.488	0.685	1.053	165.269	0.000	11.310	14.171	25.481	
	Sald	Gyansu	205.338	0.508	17.384	128.236	0.000	28.767	30.443	59.210	
65	Sald	Nismor	171.669	37.884	1.625	43.546	0.000	19.237	69.377	88.614	643
66	Sald	Sald	76.717	1.098	0.001	22.412	0.000	3.737	49.469	53.206	720
67	Sald	Gyanja	89.072	13.232	0.026	11.265	0.000	6.457	58.092	64.549	406
68	Sald	Sangrali	81.219	0.528	0.038	23.230	0.000	0.000	57.423	57.423	371
69	Sald	Bagyalgaon	38.395	0.955	0.075	7.555	0.000	4.760	25.050	29.810	489
70	Joshiyara	Joshiyara	13.936	0.000	3.415	4.605	5.830	0.000	0.086	0.086	1343
71	Joshiyara	Ladari	44.067	1.650	1.924	15.478	4.933	18.250	1.832	20.082	3795
72	Joshiyara	KotiyalGaon	45.383	10.134	1.772	16.239	0.000	9.042	8.196	17.238	1148
73	Joshiyara	Bonga	98.346	18.264	5.831	40.933	0.000	19.090	14.228	33.318	645
74	Joshiyara	Bheluda	73.843	24.528	4.525	18.878	0.000	10.804	15.108	25.912	458
75	Joshiyara	Tiloth	65.107	15.350	4.532	10.810	22.421	3.806	8.188	11.994	2993
76	Joshiyara	Jaspur	17.732	2.340	0.052	1.607	2.707	4.275	6.751	11.026	231
77	Joshiyara	Mandow	93.768	10.850	10.690	22.963	19.960	11.675	17.630	29.305	637
78	Joshiyara	Silyan	37.407	10.500	0.028	0.635	9.443	1.945	14.856	16.801	186
89	Joshiyara	Nirakot	6.824	1.850	0.126	0.365	0.735	0.799	2.949	3.748	83

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80	Mustik Saud	Mastari	94.390	43.560	0.270	36.145	0.000	3.298	11.117	14.415	268
81	Mustik Saud	Sadang	21.015	4.145	0.957	4.734	0.000	7.197	3.982	11.179	131
82	Mustik Saud	Dowha Thalan	28.515	9.372	3.388	11.988	0.000	3.095	0.672	3.767	18
83	Mustik Saud	Thalan	87.141	16.607	2.571	28.607	0.000	12.823	26.533	39.356	570
84	Mustik Saud	Bongadi	68.033	13.210	0.067	15.400	0.000	0.946	38.410	39.356	570
85	Mustik Saud	Kuroli	63.687	14.714	0.000	13.978	0.000	0.000	34.995	34.995	687
86	Mustik Saud	Kankradi	61.760	22.529	0.085	18.483	0.000	5.108	15.555	20.663	468
87	Mustik Saud	Manpur	121.488	31.966	4.110	35.952	0.000	21.451	28.009	49.460	1123
88	Mustik Saud	Sada	38.601	12.529	1.202	14.148	0.000	4.657	6.065	10.722	271
89	Mustik Saud	Dhanpur	61.152	14.163	2.942	14.146	0.000	16.283	13.618	29.901	274
90	Mustik Saud	Aleth	99.010	31.530	5.043	18.256	0.000	11.616	32.565	44.181	394
91	Mustik Saud	Kishanpur	149.921	37.271	2.849	47.169	0.000	22.193	40.439	62.632	955
		Total	14136.350	1047.379	412.828	7975.223	66.029	503.554	4127.692	4631.246	67339

Ongoing government schemes within eco-sensitive zone from Department of Agriculture:

1. **District Plan:** under this plan allotment of Budget by district planning committee in different items and execution of works done as follows.
 - a. **Plant protection programme:-** Under this programme distribution of plant protection chemicals is done in which subsidy to General category farmers is 50 % to Schedule caste and schedule tribes farmers is 90%.
 - b. **Agriculture mechanization:** - In Agriculture mechanization distribution of agriculture implement in 90 % subsidy with 40 % matching subsidy.
 - c. **Protection of agriculture from wild animals:** - in this programme fencing of agriculture land from barbed wire are proposed.
 - d. **Soil and water conservation programme:** - protection of agriculture land from soil erosion construction of create wire protection wall, check dam are proposed.

State Sector Schemes:

1. **Anushuchit jati/ jan jati bahulya gram krishi vikas yojana:** in this scheme every year one village are selected from every block of the district. Distribution of Seed mini kit, vegetable seed mini kit, soil testing, distribution of power tiller/ power weeder, small agriculture implement, water lifting device, vermi-compost pit construction, poly house establishment, farmer training and water conservation work have been proposed.
2. **Jevik mandua protsahan karykram:** this scheme has been proposed for the year 2014-15 to 2016-17. To the promotion of organic finger millets production vermi compost pit construction, organic inputs distribution (Azotobactor, Phosphorus solubelizing bacteria, Pseudomonas, Rhizobium culture, Tricoderma, Bavaria besiana etc.), organic certification, and Mandua thresur distribution, farmer training and buying of finger millets produced has been proposed. At present in 1200 hectares of agriculture land this scheme has been executed.
3. **Indigenous crop promotion programme:** To promote cultivation of indigenous crops, encourage farmers to cultivate indigenous crops, to increase income sources and minimize the problem of migration state government initiate distribution of bonus for cultivating and production of finger millets, buck wheat and Amaranths in hilly areas. For finger millets estimated production of 25 percent area of total cultivated area of finger millets, for buck wheat estimated production of 100 percent of cultivated area of buck wheat and for Amaranths crops total quantity of produce sell to the mandi samiti and organic produce board. Distribution of bonus at the rate of Rs. 200.00 per quintal of produce.
4. **Traditional agriculture development programme:** establishment of participatory Guarantee System (PGS), cluster establishment for certification of PGS, organic conversion of land, organic seed distribution, distribution of organic fertilizers, liquid bio fertilizers, zaim granules and construction of vermin compost pit etc work have been proposed under this programme.

Center government plans/schemes:

1. **National Food Security Mission:** To promote cultivation of core cereal, pulses, and oil seed crops distribution of certified seeds of black gram, lentil in 50 per cent subsidy and maximum limit up to Rs. 2500.00 per quintal, organize cluster crop demonstration, distribution of plant protection chemicals and micronutrient in 50 percent subsidy and maximum limit up to Rs. 500.00 per hectares, farmer training and distribution of sprayer, water lifting devices, and water distribution application in 50 per cent subsidy etc. has been proposed under this scheme.
2. **Rashtriya Krishi Vikas Yojana:** under this scheme several programme has been executed as follows:-
 - a. **Crop production programme:** Organize cluster demonstration of cereal crops, hybrid rice production demonstration, system of cultivation of rice intensification at the rate of Rs. 7500.00 per haters, distribution of certified seeds (50 per cent subsidy and maximum limit up to Rs. 1000.00 per quintal), distribution of plant protection chemicals, micronutrient and bio chemicals (50 per cent subsidy and maximum limit up to Rs. 500.00 per haters) are proposed under this programme.
 - b. **Farm Mechanization:** To promote use of modern agriculture equipments is agriculture fields distribution of agriculture equipments in 90 percent subsidy in matching subsidy i.e. 50 percent subsidy from center government scheme and 40 percent from state government scheme.
 - c. **Bhudeshiya Jal Sambhran Tank:** construction of multipurpose of irrigation tank, irrigation channel, vermi compost pit, poultry raring, polyhouse establishment, and plantation of horticultural plants are proposed under this programme.
 - d. **Soil conservation work under deviya apada programme:** under this programme construction of protection wall in crate wire have been proposed to protect agriculture land which have been affected due to heavy natural disaster occurred in the year 2013-14.
 - e. **Promotion of organic farming and soil health programme:** to promote organic farming construction of vermi compost pit, nadap pit, farmer training, distribution of organic inputs and organic certification works have been proposed under this programme.
 - f. **Protection of agriculture from wild animals:** - in this programme fencing of agriculture land from barbed wire are proposed.
 - g. **Krshak Mahotsava (kharif and Rabi):** farmer fair have been hosted in both kharif and Rabi season every year under every Nyaypanchayat. Inauguration of farmer fair held at district head quarters, where information about all ongoing government development schemes through stalls of agriculture and allied department.
3. **National Mission on Sustainable Agriculture:** sustainable agriculture productivity depends on quality and availability of natural resources like soil and water. Agricultural growth can be sustained by promoting conservation and sustainable use

of these scarce natural resources through appropriate location specific measures. NMSA will have following objectives.

- To make agriculture more productive, remunerative and climate resilient by promoting location specific integrated/ Composite farming systems,
- To conserve natural resources through appropriate soil and moisture conservation measures.
- To adopt comprehensive soil health management practices based on soil fertility maps, soil test based application of macro and micro nutrients, judicious use of fertilizers etc.
- To optimize utilization of water resources through efficient water management to expand coverage for achieving '*more crop per drop*'.

To achieve these objectives, NMSA will have following multi-pronged strategy.

- Promoting integrated farming system covering crops, livestock and fishery plantation and pasture based composite farming for enhancing livelihood opportunities, ensuring food security and minimizing risks from crop failure through supplementary/ residual productivity systems.
- Popularizing resources conservation technologies (both on farm and off farm and introducing practices that will support mitigation efforts in times of extreme climatic events or disasters like prolonged dry spells, floods etc.
- Promoting effective management of available water resources and enhancing water use efficiency through application of technologies coupled with demand and supply side management solutions.
- Creating database on soil resources through land use survey, soil profile study and soil analysis on GIS platform to facilitate adoption of location and soil specific crop management practices and optimize fertilizer use.

4. National Mission on Agriculture Extension and Technology:

- a. Agriculture technology management agency:** Crop demonstration, village level exposure visit, farmer training, farm field school, and kisan shri prize etc work have been proposed under this programme.
- b. Sub Mission Seed and Planting Material:** Distribution of cereal crop seeds in 50 per cent subsidy and distribution of pulse/oilseeds in 60 per cent subsidy to create seed village.
- c. Sub Mission on Agriculture Mechanization:** There is a strong co-relation between farm power availability and agriculture productivity. There for, sub mission of agriculture mechanization will focus on farm mechanization. The sub mission will mainly cater to the needs of the small and marginal farmers through institutional arrangements such as custom hiring, mechanization of selected villages, subsidy for procurement of machines and equipment, etc.
- d. Sub-mission on plant protection:** It included in NAMET envisages increase in agricultural production by keeping the crop disease free using scientific and environment friendly techniques through promotion of integrated pest management.

5. **National Mission on oilseed and oil palm:** National mission on oilseed and oil palm envisages in production of vegetable oils sourced from oilseeds, oil palm through distribution of certified seeds, distribution of minikit, distribution of plant protection chemicals, micronutrient etc, distribution of plant protection equipments etc.
6. **Pradhan Mantri Krishi Sanchayee Yojna:** Pradhan Mantri Krishi Sanchayee Yojana with the motto of 'Har Khet Ko Paani'. There is a need for seriously considering all options including linking of rivers, where feasible; for ensuring optimal use of our water resources to prevent the recurrence of floods and drought. By harnessing rain water through 'Jal Sanchay' and 'Jal Sinchan', we will nature water conservation and ground water recharge. Micro irrigation will be popularized to ensure 'Per drop-More crop'. The broad objectives of PMKSY is as follows:
- a) Achieve convergence of investments in irrigation at the field level (preparation of district level and, if required, sub district level water use plans).
 - b) Enhance the physical access of water on the farm and expand cultivable area under assured irrigation (Har Khet ko pani),
 - c) Integration of water source, distribution and its efficient use, to make best use of water through appropriate technologies and practices.
 - d) Improve on-farm water use efficiency to reduce wastage and increase availability both in duration and extent,
 - e) Enhance the adoption of precision-irrigation and other water saving technologies (More crops per drop).
 - f) Enhance recharge of aquifers and introduce sustainable water conservation practices
 - g) Ensure the integrated development of rainfed areas using the watershed approach towards soil and water conservation, regeneration of ground water, arresting runoff, providing livelihood options and other NRM activities.
 - h) Promote extension activities relating to water harvesting, water management and crop alignment for farmers and grass root level field functionaries.
 - i) Explore the feasibility of reusing treated municipal waste water for periurban agriculture.
 - j) Attract greater private investments in irrigation.

This will in turn increase agricultural production and productivity and enhance farm income.

Strategy & Focus Areas of PMKSY:

To achieve above objectives, PMKSY will strategize by focusing on end-to end solution in irrigation supply chain, viz. water sources, distribution network, efficient farm level applications, extension services on new technologies & information etc. Broadly, PMKSY will focus on:-

- a) Creation of new water sources; repair, restoration and renovation of defunct water sources; construction of water harvesting structures, secondary & micro

storage, ground water development, enhancing potentials of traditional water bodies at village level like Jal Mandir (Gujarat); Khatri, Kuhl (H.P.); Zabo (Nagaland); Eri, Ooranis (T.N.); Dongs (Assam); Katas, Bandhas (Odisha and M.P.) etc.

- b) Developing/augmenting distribution network where irrigation sources (both assured and protective) are available or created;
- c) Promotion of scientific moisture conservation and run off control measures to improve ground water recharge so as to create opportunities for farmer to access recharged water through shallow tube/dug wells;
- d) Promoting efficient water conveyance and field application devices within the farm viz, underground piping system, Drip & Sprinklers, pivots, rain-guns and other application devices etc.;
- e) Encouraging community irrigation through registered user groups/ farmer producers' organizations/NGOs; and
- f) Farmer oriented activities like capacity building, training and exposure visits, demonstrations, farm schools, skill development in efficient water and crop management practices (crop alignment) including large scale awareness on more crops per drop of water through mass media campaign, exhibitions, field days, and extension activities through short animation films etc.

7. Border area development programme: To protect agriculture land from flood through protection wall, check dam, spur construction and water conservation through multipurpose irrigation tank have been proposed under this programme.

**Prohibited, Regulated and Permitted work related to department of agriculture with in
Eco- Sensitive Zone**

S. No.	Main activity	Prohibited	Regulated	Permitted	Remarks
1	Mining of Minerals and stone quarrying and crushing	Yes	-	-	All types of minning, stone quarrying and crushing except for the domestic needs of bona fide local residents
2	Water	-	Yes	-	The extraction of ground water shall be permitted only for the agricultural and domestic consumption of the bona fide local residents.
3	Introduction of exotic species	-	Yes	-	-
4	Drastic change of agricultural system	-	Yes	-	-
5	Rain water harvesting	-	-	Yes	All works related to rain water harvesting proposed under PMKSY. And all works which are proposed under this scheme are eco friendly.
6	Organic farming	-	-	Yes	All works related to organic farming proposed under PKVY. And all works which are proposed under this scheme are eco friendly.
7	Green technology	-	-	Yes	All works related to green technology proposed under NMSA, NFSM, NMOOP and RKVY. And all works which are proposed under these schemes are eco friendly.
8	Local bio resource based industry	-	-	Yes	Establishment Finger millet processing industry

Proposed work plan for development of Eco-sensitive zone

- 1. Work plan for organic conversion:** organic conversion of land, organic seed distribution, distribution of organic fertilizers, liquid bio fertilizers, granules and construction of vermi compost pit etc have been proposed under this programme. Financial in table no 2.

Expenditure norms for organic convergence of land

S. No.	Particulars	Expenditure Norms / hac.
1	Organic convergence of land	2500.00
2	Seed/ Planting material distribution	3500.00
3	Liquid bio chemical / bio insecticide distribution	2500.00
4	Phosphate solublizing bacteria and distribution	2500.00
5	Construction of vermi compost and nadap pit	20000.00
	Total	31000.00

- 2. Farm Mechanization:** To promote use of modern agriculture equipments distribution of agriculture equipments with 90 percent subsidy in matching subsidy, i.e. 50 percent subsidy from center government scheme/state government scheme and 40 percent from eco sensitive zone plan is proposed.
- 3. Local bio resource based industries:** to enhance the livelihood of local people industries for processing the local raw produce is produced.

Finger millets processing industry: In this industries processing of raw finger millets which are produced locally in the form of cookies, pan cakes etc.

Chief Agriculture officer,
Uttarkashi

Table no. 2 physical and financial targets of organic convergence

S. No.	Particulars	Unit	Target	Estimated cost	Year wise Target							
					2016-17				2017-18			
					Phy.	Financial			Phy.	Financial		
						center / state govt. share	eco sensitive plan share	total		center / state govt. share	eco sensitive plan share	total
1	Organic convergence of land	Ha.	3400.00	85.00	680.00	8.50	8.50	17.00	680.00	8.50	8.50	17.00
2	Seed/ Planting material distribution	Ha.	3400.00	119.00	680.00	11.90	11.90	23.80	680.00	11.90	11.90	23.80
3	Liquid bio chemical / bio insecticide distribution	Ha.	3400.00	85.00	680.00	8.50	8.50	17.00	680.00	8.50	8.50	17.00
4	Phosphate solublizing bacteria and zime distribution	Ha.	3400.00	85.00	680.00	8.50	8.50	17.00	680.00	8.50	8.50	17.00
5	Construction of vermi compost and nadap pit	No.	6800	680.00	1360	68.00	68.00	136.00	1360	68.00	68.00	136.00
6	Farmer training Rs. 5000.00 / training	No.	50	2.5	10	-	0.5	0.50	10	-	0.5	0.5
7	Master trainer 12000.00 / month	No.	2	14.4	2	-	2.88	2.88	2	-	2.88	2.88
	Total			1070.9		105.4	108.78	214.18		105.4	108.78	214.18

Year wise Target														
S. No.	Particulars	Unit	2018-19				2019-20				2020-21			
			Phy.	Financial			Phy.	Financial			Phy.	Financial		
				center / state govt. share	eco sensitive plan share	total		center/ state govt. share	eco sensitive plan share	total		center/ state govt. share	eco sensitive plan share	total
1	Organic convergence of land		680.00	8.50	8.50	17.00	680.00	8.50	8.50	17.00	680.00	8.50	8.50	17.00
2	Seed/ Planting material distribution	Ha.	680.00	11.90	11.90	23.80	680.00	11.90	11.90	23.80	680.00	11.90	11.90	23.80
3	Liquid bio chemical / bio insecticide distribution	Ha.	680.00	8.50	8.50	17.00	680.00	8.50	8.50	17.00	680.00	8.50	8.50	17.00
4	Phosphate solublizing bacteria and zime distribution	Ha.	680.00	8.50	8.50	17.00	680.00	8.50	8.50	17.00	680.00	8.50	8.50	17.00
5	Construction of vermi compost and nadap pit	Ha.	1360	68.00	68.00	136.00	1360	68.00	68.00	136.00	1360	68.00	68.00	136.00
6	Farmer training Rs. 5000.00 / training	No.	10	-	0.5	0.5	10	-	0.5	0.5	10	-	0.5	0.5
7	Master trainer 12000.00 / month	No.	2	-	2.88	2.88	2	-	2.88	2.88	2	-	2.88	2.88
	Total	No.		105.4	108.78	214.18		105.4	108.78	214.18		105.4	108.78	214.18

Project wise financial target

S. N o.	Name of scheme	Estimated cost of project	year wise financial targets														
			2016-17			2017-18			2018-19			2019-20			2020-21		
			center/ state share	eco sensitive plan share	total	center/ state share	eco sensitive plan share	total	center/ state share	eco sensitive plan share	total	center/ state share	eco sensitive plan share	total	center/ state share	eco sensitive plan share	total
1	organic convergence of land	1070.90	105.40	108.78	214.18	105.40	108.78	214.18	105.40	108.78	214.18	105.40	108.78	214.18	105.40	108.78	214.18
2	farm mechanization	50.00	5.00	5.00	10.00	5.00	5.00	10.00	5.00	5.00	10.00	5.00	5.00	10.00	5.00	5.00	10.00
3	finger millets processing unit (2 unit)	10.00	-	5.00	5.00	-	5.00	5.00	-	-	-	-	-	-	-	-	-
	Total	1130.90	110.40	118.78	234.18	110.40	118.78	234.18	110.40	113.78	224.18	110.40	113.78	224.18	110.40	113.78	224.18

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