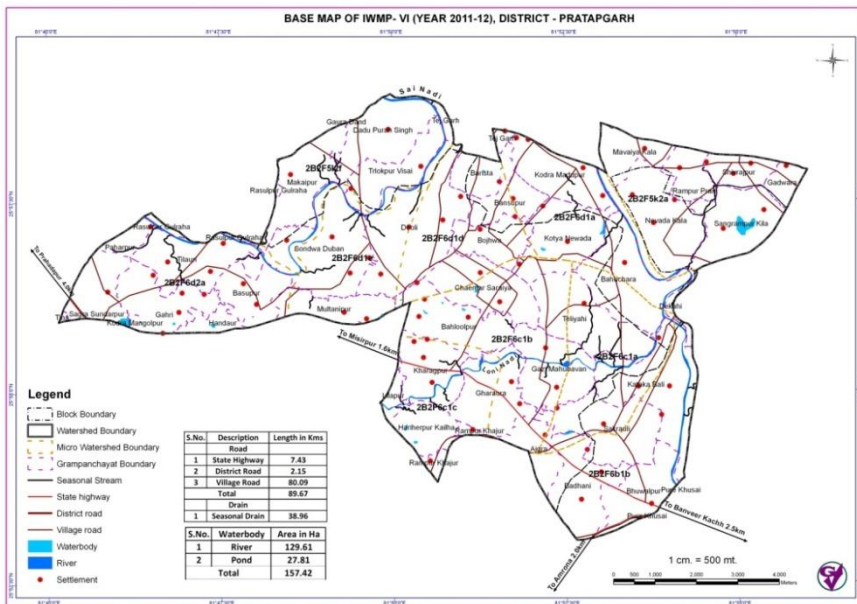


DPR OF SANWA CHANDRIKA WATERSHED (IWMP-VI), DISTRICT PRATAPGARH



Prepared by:

**State Institute of
Rural Development
(SIRD), Lucknow,
U.P.**

2011-2012

**Detailed Project Report (DPR) of Sandwa Chandrika (IWMP-VI)
watershed Pratapgarh, Uttar Pradesh, 2011-12**

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FOREWORD

The declining per capita land and fresh water availability coupled with soil erosion and land degradation in India are posing serious threat to environmental, food, social and economic security. Land and water go together and their development cannot be considered independent of each other for sustainability of rainfed areas. Conservation and management of rainwater holds key for sustainable agriculture in rainfed areas. It has also been amply demonstrated in India and elsewhere that it is impossible to envisage or implement sustainable solutions for land and water resource development and management without active and full participation of local community. Development of land and water together with sustainable production system when confined to small natural drainage unit such as watershed leads to sustainable development. Watershed Management (WSM) has, therefore, emerged as a new paradigm for planning, development and management of land, water and biomass resources with a focus on social and institutional aspects apart from bio-physical aspects following a participatory "bottom-up" approach. A large number of projects for productivity enhancement are being implemented on the watershed approach.

Soil and water conservation including micro-scale water resource development is the foundation of any watershed development programme supported by number of other protection, production and livelihood support interventions. This is so, because water is the most crucial input and acts as a catalyst to bring in ecological, social and economical revolution. Sustainable production depends considerably upon proper development, conservation, management and use of watershed resources at micro-level. Watershed management becomes increasingly important as a system approach to improve livelihood of people while conserving and regenerating their natural resources. The role and Importance of community participation in ensuring the success and satiability of watershed management is now widely accepted.

Two-thirds of the country's agriculture is rainfed. Only one-third of the 142 m ha of cultivated in India is irrigated. The green revolution in the irrigated areas, induced by modern agricultural technologies, by-and large by-passed the rainfed regions. Agriculture in these regions is characterized by low levels of productivity and low input usage; food grain yields in rainfed areas are half those in irrigated regions. Dependence of rainfall makes crop production considerably instable in rainfed areas, which are home to the bulk of the rural poor. The Government of India has accorded highest priority to the holistic and sustainable developed of rainfed areas through the integrated watershed development approach. The key attributes of the watershed approach are conservation of the rain water and optimization of soil and water resources in a sustainable and cost effective mode. Improved moisture management increases the productivity of improved seeds and fertilizers, so conservation and productivity enhancing measures become complementary. Under rainfed conditions choice of technologies are going to vary from location to location due to high degree of complexity and diversity in situations. This applies to the technologies for development of natural resources as well as for enhancement of productivity of different commodities in agriculture and allied sectors. While carrying out participatory planning exercises, the watershed development team (WDT) may orient community members about different scientific and indigenous technological options available with them through IEC and training courses etc. and leave the final choice to them. Keeping these things in mind, the DPR of Pratapgarh IWMP-VI watershed has been prepared.

MESSAGE

Deen Dayal Upadhaya, State Institute of Rural Development, Uttar Pradesh has been commissioned by State Level Nodal Agency, IWMP to prepare proposed DPRs for 55 identified watershed in the State. Integrated Watershed Management Programme (IWMP); a centrally sponsored programme is aimed towards sustainable regeneration of ecological balance and suitable agricultural and allied production interventions by properly managing and harvesting rain water and thereby increasing production and productivity, providing equitable opportunities and economic upliftment to all section of society in project area. The cost of project is estimated at Rs. 12000.00 per ha. The project will be implemented on watershed basis having an area of about 5000 ha in duration of 5-7 years. There are various components of the project to achieve the set objectives. It is pertinent that a detailed project report (DPR) has been prepared with all the details of plan, design, cost, execution and arrangement for management and evaluation.

Deen Dayal Upadhaya, State Institute of Rural Development, Uttar Pradesh has prepared this DPR after comprehensive grand study and survey and using available scientific data. I am sure the DPR, if implemented as per the designed interventions, will not only restore ecological balance but will be of immense help for the farmers and agricultural sector to improve their quality of life.

I wish all success to all concern specially those who earn the livelihood from agriculture and allied activities.

Sri. N. S. Ravi (IAS)
Director General

ACKNOWLEDGEMENT

We would first like to extend our thanks to the Chief Executive Officer (CEO) of State Level Nodal Agency (SLNA), IWMP for awarding the assignment of preparation of detailed project report (DPR) of 55 watersheds to DDU SIRD, Lucknow. We extend our heartiest gratitude to Sri N.S. Ravi, I.A.S., Director General, DDU SIRD, Lucknow for assigning the assignment to us and providing all necessary logistic support. We are thankful Sri K. P. Tripathi, former Principal Scientist, Soil & Water Conservation Engg., ICAR-IISWC (formerly known as CSWCRTC), Dehradun for their valuable suggestions and guidance during the process of DPR preparation.

We are very grateful to Dr. Ashok Kumar, Assistant Director, Soil Conservation and Water Management; Sri S. G. Sahoo and Sri R K Srivastav Senior Instructor Agricultural Engineering for helping in the process of DPR preparation. We are thankful to all the farmers of the watershed who cooperated during the PRA/data collection and gave their valuable suggestions.

Dr. Vardani
Additional Director

EXECUTIVE SUMMARY

The Sandwa Chandrika IWMP-VI watershed having a geographical area of 8934.54 hectares is situated in the district of Pratapgarh (UP). It has been designated as IWMP-VI watershed which has eight micro watersheds (code: 2B2F5k2a, 2B2F5i2f, 2B2F6b1b, 2B2F6c1a, 2B2F6c1c, 2B2F6d1d, 2B2F6d1e, 2B2F6d2a). It includes 72 Villages of 45 Villages Panchayats. Only 65% area of the land is under cultivation and 27% land is fallow. The remaining area of about 8% is under small fraction of forest, community land, orchard, habitation and other uses. The topography of the watershed, as a whole, is fairly compact tract of gently undulating land. The elevation varies from about 83 meter (min.) amsl to 98 meter (max.) amsl, with overall gentle slope is from north-west to south-east along Sai river.

The soils are light to medium in texture. Soil of the almost whole watershed is loamy soil, moderately alkaline. Soils of the watershed are deficient in organic matter and soil nutrients. It has high permeability and low compressive strength. *Reh* infestation in the area south of Sai, waterlogging in low lying areas during monsoon and gully erosion in sandy area along Sai river and its tributary water streams etc. are the main natural hazards affecting the upland. Channel Plains of Sai and Loni Rivers and lower elevations of terrace plain are submerged during annual food. Being flat, gently slopped, maximum area under cultivation, almost 33% of the land comes under Class-I. Rest of the 67% of the area needs a proper planning for soil-water conservation. 25% of total area is under Class III, which is moderately susceptible to salinity issue. Almost 20% of the area is under class VI, which is along the drains and river is susceptible to erosion. The soil erosion in the cultivated land is not a serious problem in the watershed as about 65% of area is subjected to E₁ erosion. The E₂ erosion is observed in about 28% area which is along the streams, whereas 7% area has salinity problem.

Climate of the watershed is warm subtropical with very cold and dry winters from December to Mid February and dry, hot summers from April to Mid June. The rainy season is from mid-June to mid-September when it gets an average rainfall of 618 mm mostly from the south-west monsoon winds. Agro-ecologically, this watershed falls under the “Hot (hyperthermic) moist, semi-arid, Ganga-Yamuna Doab” region and agro-climatic zone is “eastern zone” and both are favorable for agricultural activities. Paddy is the main Kharif crop and Wheat is the main Rabi crop in the district. Other crops grown are mazie, pulses, potato, onion, oilseeds etc. The cropping intensity is 137.75% in the watershed which is little lesser than state’s average. The agriculture productivities are moderate. Aonla is one of the main cash crop and there are number of processing units in Pratapgarh district. The crop productivity is low due to low organic matter in the soil. Chemical fertilizers are given to the crop without soil analysis thus, creating imbalance in the soil nutrients. FYM and organic fertilizer are not in practice due to absence of sufficient raw material.

Sai and the Ganges are the main rivers flowing through Pratapgarh district. During pre-monsoon, the groundwater occurs in 8-15m depth almost in 99% of the area. Post-monsoon, the groundwater level increases almost up to the ground level along the Sai river during rainy season. The groundwater throughout year is maintained to 8-15meter in 99%

area is mainly due to recharge from rivers. The tube-well intensity in the region is 0.2 per hectare and hence irrigation is mostly done using groundwater. As groundwater potential is good in the watershed but increasing overdraft for the irrigation is a growing concern. The increasing soil salinity of the watershed is the major concern

The Socio-economic condition of the people is not very encouraging as 7% of population is below poverty line and 8% population is landless. The total workforce is 35% of the total population, which derives a logical conclusion i.e. 65% of the population, is dependant on the income from rest of the population which is also a partial reason for distressed poverty. 62% of population is directly dependent on the agriculture out of which only 7% are cultivators whereas significantly 55% of total workforce is agriculture laborers. 91% of famers have land holding less than 1 ha and segmented and scattered agriculture cannot be easily promoted to mechanization. The income level of these small and marginal farmers needs to be enhanced through intergrated farming systems, mechanization, allied livelihood avenues, etc. Thrust has to be given to promote integrated crop management in pulses and oilseeds considering their importance in present agriculture. Around 33% of families have a salaried job, which is a reason of withdrawal of interest in agriculture. Total 11% families are women headed, which also bring in distress on the family. Despite moderate literacy rate of 62%, the unemployment is high as current education qualification does not necessarily competent in the market. Almost as many families of the watershed are landless, their livelihood depends upon the occasional employment they get in agriculture sector or they migrate to the nearby city for day to day labor work. Females of the watershed are mostly engaged in Aonla pickle and murabba production, this is a homemade preserves business. The processing of homemade fruit preserves Aonla Based products such as; murabba, candy, jams laddoo, jellies, burfee, aonla juice, pickles, squash etc. for growing the market in this business. This is the major employment of the people of the watershed and also nowadays it has evolved into a business opportunity.

The IWMP plan has been developed comprehensively taking agro-climatic conditions, natural resources, socio-economic conditions, and technology into account, also intergrating the opportunities of other livelihood avenues viz. livestock, agro-forestry, horticulture, promotion of Aonla processing etc. Total cost of the project works out to be Rs. 1.12 crores. Out of this Rs. 4.5 crores is proposed to be met from convergence under MGNREGA and Rs. 9.7 lakhs from Horticulture Dept. (NHM) etc. The amount of Rs. 6.53 crores will be met out from IWMP. The benefit: cost ratio is estimated at 1.56:1 with IRR of 20%. About Rs 15 lakhs is expected to be collected from farmers as their contribution for watershed development fund out of which Rs. 5.3 lakhs is for renovation of field bunds and Rs. 9.7 lakhs is for contribution towards NHM programme.

Chapter 1: Introduction and background

1.1 Background of IWMP

National Rainfed Area Authority (NRAA) framed common guidelines (2008) for watershed programmes to all ministries/departments. The provisions in the common guidelines and the observations of the Parthasarthy committee have necessitated modifications in the watershed schemes of the Department of Land Resources. Accordingly, Drought Prone Areas Programme (DPAP), Desert Development Programme (DDP) and Integrated Wastelands Development Programme (IWDP) of the Department of Land Resources have been integrated and consolidated into a single modified programme called Integrated Watershed Management Programme (IWMP). This guideline was further amended in 2011. This consolidation is for optimum use of resources, sustainable outcomes and integrated planning.

The watershed management programme in the country has been conceptualized as rainwater management program in the rain fed areas of the country, which constitutes roughly 60% of the total net cultivated land of about 144 mha of the country. It is observed that though the rainfed land is about 60% of the total cultivated land of the country but its contribution to the total food production of the country is less than 40%. As the monsoon in India is unpredictable and drought and floods are observed at peioridical interval hence, rainwater management is considered as focal point to the solution of the problem of uncertainty of rainfall under rainfed condition. The Indo-Gangetic plain of the country has numerous perennial rivers but still rainfall is the main source of irrigation and domestic need of the people. Presently exploitation of groundwater has been at faster rate thnn its recharge. Therefore rainwater management does not only aims to create surface irrigation potential but also aims to augment groundwater. Under such vision the IWMP has been designed.

State of Uttar Pradesh

Uttar Pradesh is situated in northern part of India. Its geographical area is about 241701 sq km. It accounts for 6.88 percent of total geographical area of the country. The population of the state is about 199.5 million as per census of 2011, which accountes for 16.49 percent of the total population of India. This is most populous state of India and ranks fifth in population. The highest density of population is also found in this region. On account of highest density of population, the per capita availability of land is very low in comparison to other states. The state is divided into 4 divisions, namely Western (30 districts), Eastern (28 districts), Central (10 districts) and Bundelkhand (7 districts). At present state have 75 districts, 327 tehsils, 822 blocks and 107452 revenue villages. The state is also dividend into 9 agro climatic zones, 1.Tarai Region; 2.Western Plain Region; 3.Central Western Region; 4. South Western Region; 5.Central Plain Region; 6.Bundelkhand Region; 7.North Eastern Plain Region; 8.Eastern Plain Region and 9 Vindhychal Region. The flood and drought are common phenomena of this region.

The state has more than 32 large and small rivers, of them, the Ganges, Yamuna, Sarayu, Betwa and Ghaghara are larger rivers of the state. Lucknow is the capital of Uttar Pradesh. Agricultural and services industries are most important activities of the state

economy. About 68.54 percent land of the total geographical area of the state is under cultivation (2012-13). The percentage of net area sown in Uttar Pradesh has been decreasing continuously due to fast expansion of industrialization and urbanization in the state.

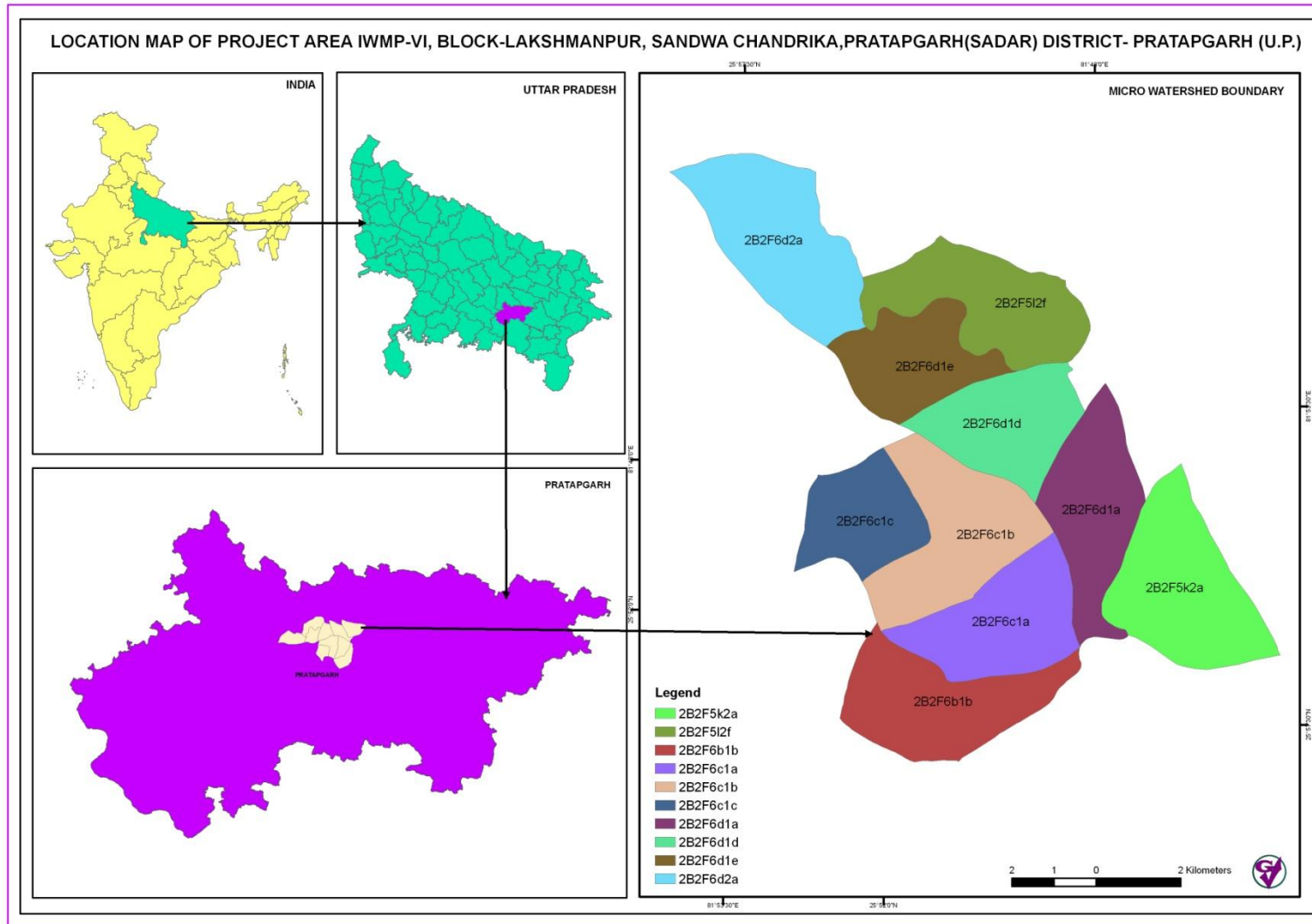
Pratapgarh District

During the 17th century a King Pratap Singh ruled in this area. There he built a fort and called it Pratapgarh after his own name. The district was formed in the year 1858 with its headquarters at Bela derived from the temple of Goddess Bela Bhawani on bank of river Sai. Administratively, district Pratapgarh comes under Allahabad division and it is located 60 Km. from Allahabad and surrounded by district Sultanpur in North, Allahabad & Kaushambi in South, Jaunpur in East and Raibareilly & Fatehpur in West. Pratapgarh is primarily, an agrarian district. For a while now, Pratapgarh has risen in ranks as the top producer of Aonla fruit. There are increasing number of Aonla processing units and cottage industries based on Aonla, absorbing large section of unemployed population. The district headquarter, Pratapgarh is on the Allahabad-Faizabad main road, at a distance of 39 km from Sultanpur and 61 Km from Allahabad. It is one of the older districts of Uttar Pradesh.

1.2 Watershed - Sandwa Chandrika IWMP-VI

The Sandwa Chandrika IWMP-VI watershed having in area of 8934.54 ha is situated in the district of Pratapgarh (UP). It has been designated as IWMP-VI watershed which has eight micro watersheds (code: 2B2F5k2a, 2B2F5i2f, 2B2F6b1b, 2B2F6c1a, 2B2F6c1c, 2B2F6d1d, 2B2F6d1e, 2B2F6d2a). It includes 72 Villages of 45 Villages Panchayats. The location of the watershed is depicted in Fig 1.

Fig.1. Location map of Sandwa Chandrika IWMP-VI watershed



Chapter 2: Objectives and Project Implementing Agency (PIA)

2.1 Major objectives

Sl. No.	Objectives
1	The main objectives of the IWMP are to restore the ecological balance by harnessing, conserving and developing degraded natural resources such as soil, vegetation and water.
2	Prevention of soil, run-off; rain water harvesting and recharging of the ground water.
3	Introduction of multi-cropping system and diverse agro-based activities, which helps to provide sustainable livelihood to the people of watershed area.
4	Promote cost effective and proven technologies to support watershed development & management

2.2 Project Implementing Agency (PIA)

Name of the PIA organization	Land Development and Water Resource, Pratapgarh.	
Postal address of the PIA organization	Bhoomi Sanrakshan Adhikari, Land Development and Water Resource, Pratapgarh.	
Name of the head of the PIA organization	Bhoomi Sanrakshan Adhikari, Pratapgarh.	
Name of the Principal Investigator (PI) i.e. Leader of the IWMP project identified by the PIA	Sri. Mukh Ram	
Designation of PI	Bhoomi Sanrakshan Adhikari	
E-mail of the PI	bsaldwrpr-up@nic.in	
Names of the Watershed Development Team (WDT) and contact number	Sl. No	Name and mobile number
	1	Sri. Dheeraj Singh (9554582174)
	2	Sri. Sandeep Chowdhary (7843960008)
Names and designation of members of Watershed Cell and Data Centre (WCDC)	3	Sri. Anuj Kumar (9598469969)
Year of commencement of the project	2012-13	
Year of completion of the project	2017-18	
Budget of the project (in Lakh)	Rs 653.4 lakhs	

Chapter 3: Present scenario of the watershed

3.1 General Profile of the watershed

Sl. No.	Parameter	Information/ value
1	Name of State	Uttar Pradesh
2	Name of District	Pratapgarh
3	Name of the Tehsil	Sandwa Chandrika
4	Name of Block	Sadar, Lachimanpur, Sandwa Chandrika, Lalganj.
5	Name of post office with pincode	Lalganj - 230132
6	Watershed details	IWMP-VI
i.	Name of Watershed	Nevada Kalan, Dandurpura Singh, Katkavli, Teliyahi, Chaimar Saraiyya, Khargapura, Kataiyya Nevada, Deoli, Sandwa Somwanshi, Sagra Sundarpur.
ii.	Code of Watershed	2B2F5k2a ,2B2F5i2f, 2B2F6b1b, 2B2F6c1a, 2B2F6c1c, 2B2F6d1d, 2B2F6d1e, 2B2F6d2a
iii	Agro Ecological Region	Hot (hyperthermic) moist, semi-arid, Ganga-Yamuna Doab, Rahilkhand and Avadh plain with LGP 120-150 days
Iv	Agro Climatic Zone	Mid plain zone (central plain zone)
v	Geographical area of the watershed (ha)	8934.54
Vi	Major drainage system	Sai and Loni River
Vii	Stream order of the watershed	up to III rd
Viii	Highest elevation on the topo-sheet (m)	98
Ix	Lowest elevation on the topo-sheet (m)	83
x	Elevation difference (m)	15
xi	Length-Width ratio of the watershed	8 : 5
xii	Longitude	81°44'50"E- 81°55'45"E
xiii	Latitude	25°52'15"N- 25°58'00"N
7	No. of Villages in the Project area.	72
8	No. of Villages Panchayats in the Project area.	45
9	Area	-
i	Total geographical area of the watershed (ha)	8934.53
ii	Treatable area (ha)	5445
iii	Arable land (ha)	5814.66
iv	Net Sown area (ha)	4221.20
v	Net Single cropped area (ha)	2600.74
vi	Net Double cropped area (ha)	1620.46
vii	Community land (ha)	28
viii	Social forest/Community forest (ha)	70.52
ix	Area under fruit trees (ha) (Orchard)	29.14
	Area under miscellaneous use (ha)	2992.22
10	Infrastructure/amenities	-
i	Distance of metalled road from village/watershed (km)	0.5-1km
ii	Distance of nearest railway station (km)	8 km
iii	Distance of nearest market (km)	2 km

iv	Distance of Taluka/Tehsil/block (km)	7 km
v	Distance of district headquarter (km)	20 km
11	Education facilities	-
i	Primary School (km)	3 km
ii	Senior school (km)	5 km
iii	College (km)	7km
12	Distance of nearest P.H.C. (km)	3 km
13	Distance of nearest Veterinary Hospital (km)	4 km
14	Distance of nearest post office (km)	3 km
15	Distance of nearest bank (km)	4 km
16	Distance of nearest ration shop (km)	5 km
17	Distance of nearest police station (km)	3 km
18	Distance of nearest panchayat bhawan (km)	2 km
19	Distance of nearest Community/ recreation centre (km)	3 km
20	Electricity	Average
21	Source of domestic water supply	-
i	Treated water through tap	Yes
ii	Untreated water through tap	No
iii	Shallow dug up well	Yes
iv	Hand pump	Yes
v	Any other (please specify)	No
22	Source of irrigation	-
i	Canal	No
ii	Tube well	Yes
iii	Open well	Yes
iv	Open dug up ponds	Yes
v	Any other (please specify)	River
23	Types of cattle	-
i	Buffalo	Yes
ii	Bullock	Yes
iii	Cows	Yes
iv	Goats	Yes
v	Sheep	No
vi	Pig	Yes
vii	Horse	No
viii	Poultry	Yes
24	Source of water for cattle	-
i	Hand pump through manger	No
ii	Open well through manger	Yes
iii	Open dug up pond	Yes
iii	Any other (please specify)	River

3.2 Village wise landuse of the watershed

Sl. No	Villages			Micro-Watershed			Area details			
	Name of Village	Area (ha)	Name of Gram Panchayat	Name	Code	Area (ha)	Cropped land (ha)	Forest Land (ha)	Community Land (ha)	Others (ha)
1	Bahuchara	2.93	Bahuchara	Nevada Kalan	2B2F5K2a	1085.36	-	2.7	-	0.23
2	Gadwara	65.03	Gadwara				54.74	-	-	10.29
3	Katata	43.7	Rampur Pran				42.38	-	-	1.32
4	Koiliya	25.45	Mavaiya Kala				24.38	-	-	1.07
5	Mavaiya Kala	117.79	Mavaiya Kala				107.18	-	-	10.61
6	Nevada Kala	249.61	Nevada Kala				206.37	0.45	-	42.79
7	Rajapur Kala	153.31	Sangrampur Kila				127.94	-	7.4	17.97
8	Rajwadi	69.54	Rampur Pran				55.19	-	-	14.35
9	Rampur Pran	8.43	Rampur Pran				6.64	-	-	1.79
10	Sadhapur	96.53	Nevada Kala				87.38	-	-	9.15
11	Sangrampur Kila	137.11	Sangrampur Kila				96.58	0.04	4.45	36.04
12	Shivrajpur	115.93	Shivrajpur				85.11	-	-	30.82
	Total	1085.36					893.90	3.2	11.85	176.41
13	Dadu Puran Singh	288.76	Dadu Puran Singh	Dandurpuran Singh	2B2F5I2f	932.8	177.91	0.25	-	110.60
14	Deoli	50.42	Deoli				7.46	-	-	42.96
15	Gaura Dand	0.11	Gaura Dand				0.11	-	-	0.00
16	Makaipur	263.15	Makaipur				137.42	-	-	125.73
17	Mattupur Bhoji	62.56	Sondwa Duban				49.24	-	-	13.32
18	Pure Varishal	107.91	Trlokpur Visai				70.34	-	-	37.57
19	Sandwa Sombansian	45.84	Sondwa Duban				14.55	-	-	31.29
20	Sarai Lachiman Dev	7.6	Tej Garh				-	7.05	-	0.55
21	Tej Garh	12.4	Tej Garh				-	0.29	-	12.11
22	Tetarpur	4.3	Rasulpur Gulraha				2.96	-	-	1.34
23	Trlokpur Visai	89.75	Trlokpur Visai				52.13	0.02	-	37.60
	Total	932.8					512.13	7.61	-	413.06
24	Ajgra	38.34	Ajgra	Katakavli	2B2F6b1b	952.02	17.58	-	-	20.76
25	Badhani	169.15	Badhani				138.29	-	-	30.86
26	Bhuwalpur	223.42	Bhuwalpur				104.09	-	-	119.33
27	Dekahi	9.92	Dekahi				9.92	-	-	0.00
28	Jogapur	14.01	Ajgra				5.69	-	-	8.32

Sl. No	Villages			Micro-Watershed			Area details			
	Name of Village	Area (ha)	Name of Gram Panchayat	Name	Code	Area (ha)	Cropped land (ha)	Forest Land (ha)	Community Land (ha)	Others (ha)
29	Kataka Bali	238.1	Kataka Bali				153.78	-	-	84.32
30	Madupur	85.92	Badhani				59.62	-	-	26.30
31	Pure Khusai	0.21	Pure Khusai				0.21	-	-	0.00
32	Sakrauli	139.07	Sakrauli				74.92	-	-	64.15
33	Yadavpur	33.88	Sakrauli				27.90	-	-	5.98
	Total	952.02					591.99	-	-	360.03
34	Ajgra	6.92	Ajgra	Toliyahi	2B2F6c1a	862.12	3.79	-	-	3.13
35	Bahuchara	160.69	Bahuchara				102.97	-	-	57.72
36	Dekahi	2.4	Dekahi				2.40	-	-	0.00
37	Gazi Mahubavan	86.14	Gazi Mahubavan				27.57	-	-	58.57
38	Jogapur	6.55	Ajgra				6.55	-	-	0.00
39	Kataka Bali	61.49	Kataka Bali				50.25	-	-	11.24
40	Koty Newada	3.03	Koty Newada				3.03	-	-	0.00
41	Madupur	25.6	Badhani				17.63	-	1.02	6.95
42	Pathraha	133.49	Kataka Bali				54.14	-	-	79.35
43	Sakrauli	123.7	Sakrauli				78.35	-	0.57	44.78
44	Teliyahi	226.66	Teliyahi				110.98	-	-	115.68
45	Yadavpur	25.45	Sakrauli				25.45	-	-	0.00
	Total	862.12					483.12	-	1.59	377.41
46	Ajgra	64.28	Ajgra				Chaimar Saraiya	2B2F6c1b	1033.72	50.64
47	Bahloolpur	88.75	Bahloolpur	64.46	-	0.69				23.60
48	Chaemar Saraiya	183.62	Chaemar Saraiya	129.09	-	1.23				53.30
49	Dandupur Padan	148.75	Bahloolpur	86.26	-	0.45				62.04
50	Gazi Mahubavan	204.82	Gazi Mahubavan	93.22	-	-				111.60
51	Gharaura	143.54	Gharaura	77.42	-	-				66.12
52	Kharagpur	6.95	Kharagpur	5.79	-	-				1.16
53	Koty Newada	58.53	Koty Newada	37.30	-	-				21.23
54	Maheshpur	7.18	Bojhwa	7.18	-	-				0.00
55	Sakrauli	11.5	Sakrauli	6.04	-	-				5.46
56	Teliyahi	115.8	Teliyahi	77.78	-	-				38.02
	Total	1033.72		635.17	-	2.37	396.18			

Sl. No	Villages			Micro-Watershed			Area details			
	Name of Village	Area (ha)	Name of Gram Panchayat	Name	Code	Area (ha)	Cropped land (ha)	Forest Land (ha)	Community Land (ha)	Others (ha)
57	Ajgra	0.78	Ajgra	Khargapur	2B2F6c1c	622.33	0.17	-	-	0.61
58	Bahloolpur	0.01	Bahloolpur				-	-	-	0.01
59	Bankati	33.53	Hariherpur Kailha				26.95	-	-	6.58
60	Dandupur Padan	16.35	Bahloolpur				7.91	-	-	8.44
61	Gharaura	151.39	Gharaura				86.44	-	-	64.95
62	Hariherpur Kailha	113.83	Hariherpur Kailha				71.78	-	1.2	40.85
63	Kharagpur	224.14	Kharagpur				154.39	-	-	69.75
64	Lilapur	42.14	Lilapur				27.28	-	-	14.86
65	Rampur Dahani urf Rampur Khajur	28.6	Rampur Khajur				14.09	-	-	14.51
66	Sarbajpur	11.56	Rampur Khajur				10.66	-	-	0.90
	Total	622.33								399.67
67	Bahuchara	204.69	Bahuchara	Katayya Nevada	2B2F6d1a	854.93	82.17	21.64	1.18	99.70
68	Bansupur	60.87	Bansupur				59.86	-	-	1.01
69	Barista	22.82	Barista				22.09	-	-	0.73
70	Dekahi	12.13	Dekahi				11.79	-	0.02	0.32
71	Kodra Madupur	237.55	Kodra Madupur				162.76	-	-	74.79
72	Koty Newada	233.52	Koty Newada				161.87	-	2.75	68.90
73	Maheshpur	7.58	Bojhwa				7.54	-	-	0.04
74	Mavaiya Kala	11.18	Mavaiya Kala				0.25	-	-	10.93
75	Nevada Kala	31.37	Nevada Kala				4.56	0.83	-	25.98
76	Sadhapur	12.89	Nevada Kala				1.26	-	-	11.63
77	Sangrampur Kila	3.3	Sangrampur Kila				1.05	0.22	0.03	2.00
78	Tej Garh	17.03	Tej Garh	17.03	-	-	0.00			
	Total	854.93					532.23	23	3.97	295.73
79	Bahloolpur	36.22	Bahloolpur	Devali	2B2F6d1d	770.77	24.17	-	0.16	11.89
80	Bansupur	72.43	Bansupur				67.24	-	-	5.19
81	Barista	108.82	Barista				55.25	-	0.52	53.05
82	Bojhwa	61.13	Bojhwa				54.08	-	-	7.05
83	Chaemar Saraiya	105.24	Chaemar Saraiya				86.12	-	-	19.12
84	Deoli	284.15	Deoli				218.52	-	-	65.63
85	Koty Newada	8.18	Koty Newada				7.30	-	-	0.88

Sl. No	Villages			Micro-Watershed			Area details			
	Name of Village	Area (ha)	Name of Gram Panchayat	Name	Code	Area (ha)	Cropped land (ha)	Forest Land (ha)	Community Land (ha)	Others (ha)
86	Maheshpur	94.26	Bojhwa				71.93	-	-	22.33
87	Multanipur	0.34	Multanipur				0.34	-	-	0.00
	Total	770.77					584.95	-	0.69	185.13
88	Bahloolpur	0.41	Bahloolpur	Sandwa Somvanshiyan	2B2F6d1e	705.86	0.01	-	-	0.40
89	Dadu Puran Singh	2.56	Dadu Puran Singh				2.01	-	-	0.56
90	Deoli	219.22	Deoli				117.49	0.02	-	101.71
91	Mattupur Bhoji	0.02	Sondwa Duban				-	-	-	0.02
92	Multanipur	97.07	Multanipur				81.02	-	0.27	15.78
93	Pure Birbal	50.29	Multanipur				31.70	-	-	18.59
94	Pure Varishal	15.77	Trlokpur Visai				10.63	-	-	5.14
95	Sandwa Sombansian	196.83	Sondwa Duban				88.10	22.98	-	85.75
96	Sondwa Duban	123.92	Sondwa Duban				92.00	0.34	-	31.58
97	Trlokpur Visai	0.34	Trlokpur Visai				-	-	-	0.34
	Total	706.45					422.97	23.34	0.27	259.87
98	Basupur	101.97	Basupur	Sagra Sundarpur	2B2F6d2a	1113.42	86.88	-	-	15.09
99	Biliamgarh	26.74	Paharpur				15.34	1.14	-	10.26
100	Chitari	3.73	Tina				3.73	-	-	0.00
101	Gahri	121.53	Gahri				113.75	-	0.35	7.43
102	Hadirahi	111.41	Gahri				89.34	-	-	22.07
103	Handaur	66.31	Handaur				65.42	-	0.9	0.00
104	Itauri	0.91	Sagra Sundarpur				0.91	-	-	0.00
105	Kansapur	81.83	Basupur				47.51	-	-	34.32
106	Kodra Mangolpur	9.15	Kodra Mangolpur				7.87	-	0.14	1.14
107	Makaipur	4.35	Makaipur				2.27	-	-	2.08
108	Maniyarpur	7.07	Rasulpur Gulraha				3.05	-	-	4.02
109	Mattupur Bhoji	37.32	Sondwa Duban				8.95	-	-	28.37
110	Nagapur	81.92	Tilauri				33.23	-	-	48.69
111	Paharpur	32.59	Paharpur				12.84	7.11	-	12.65
112	Pure Birbal	21.38	Multanipur				14.10	-	-	7.28
113	Rahima Kuli	7.28	Gahri				4.60	-	-	2.68
114	Rasulpur Gulraha	8.73	Rasulpur Gulraha	6.20	-	-	2.53			

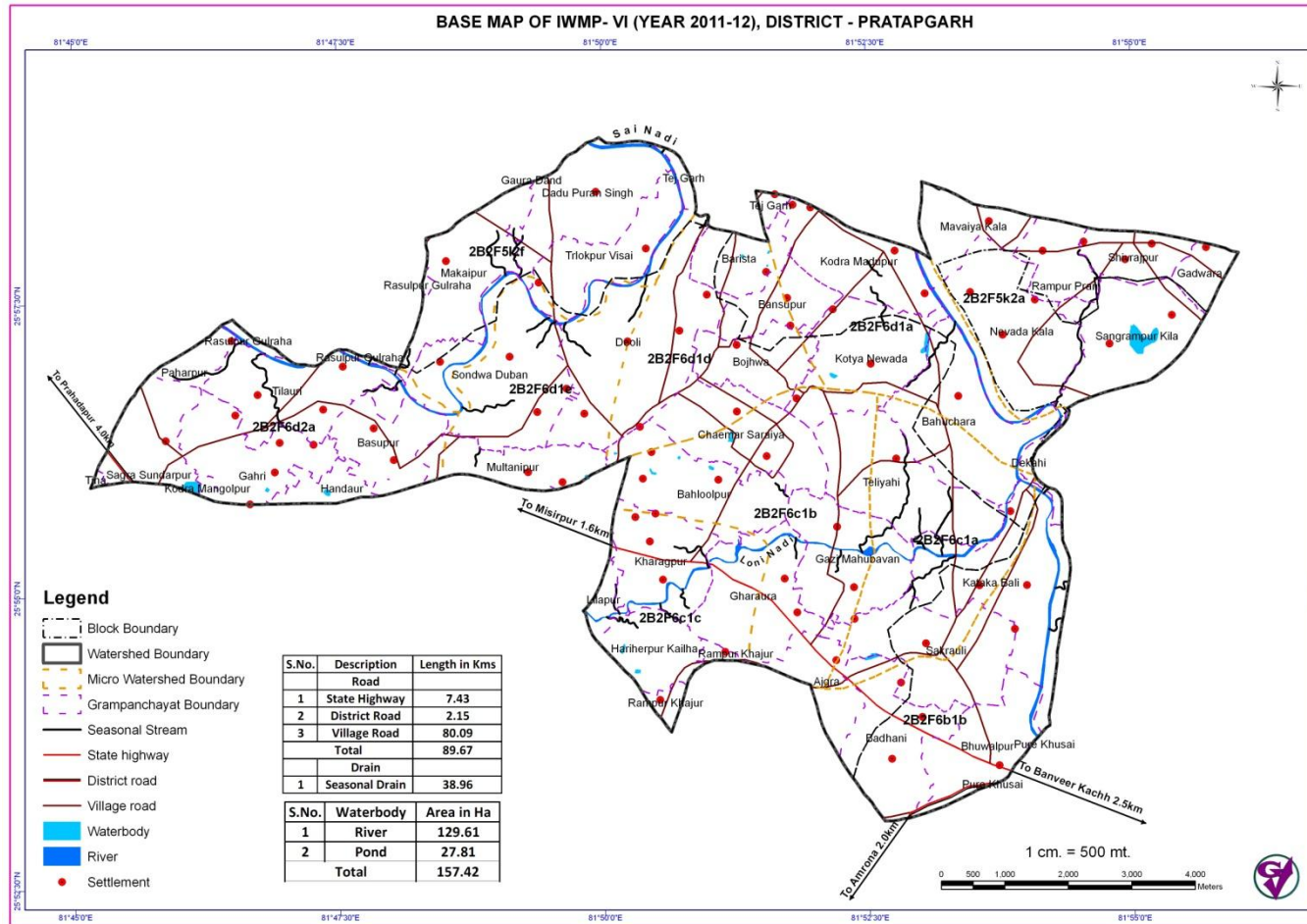
Sl. No	Villages			Micro-Watershed			Area details			
	Name of Village	Area (ha)	Name of Gram Panchayat	Name	Code	Area (ha)	Cropped land (ha)	Forest Land (ha)	Community Land (ha)	Others (ha)
115	Sagra Sundarpur	189.19	Sagra Sundarpur				139.56	5.44	4.23	39.95
116	Sandwa Sombansian	0.16	Sondwa Duban				-	-	-	0.16
117	Shakuhabad	111.85	Tilauri				62.11	-	-	49.74
118	Sondwa Duban	2.81	Sondwa Duban				1.66	-	-	1.15
119	Tetarpur	3.59	Rasulpur Gulraha				2.58	-	-	1.02
120	Tilauri	82.21	Tilauri				36.65	-	-	45.56
	Total	1114.04					758.53	13.69	6	335.81
	Grand Total	8934.54					5814.66	70.52	28	3021.36

3.3 Watershed maps

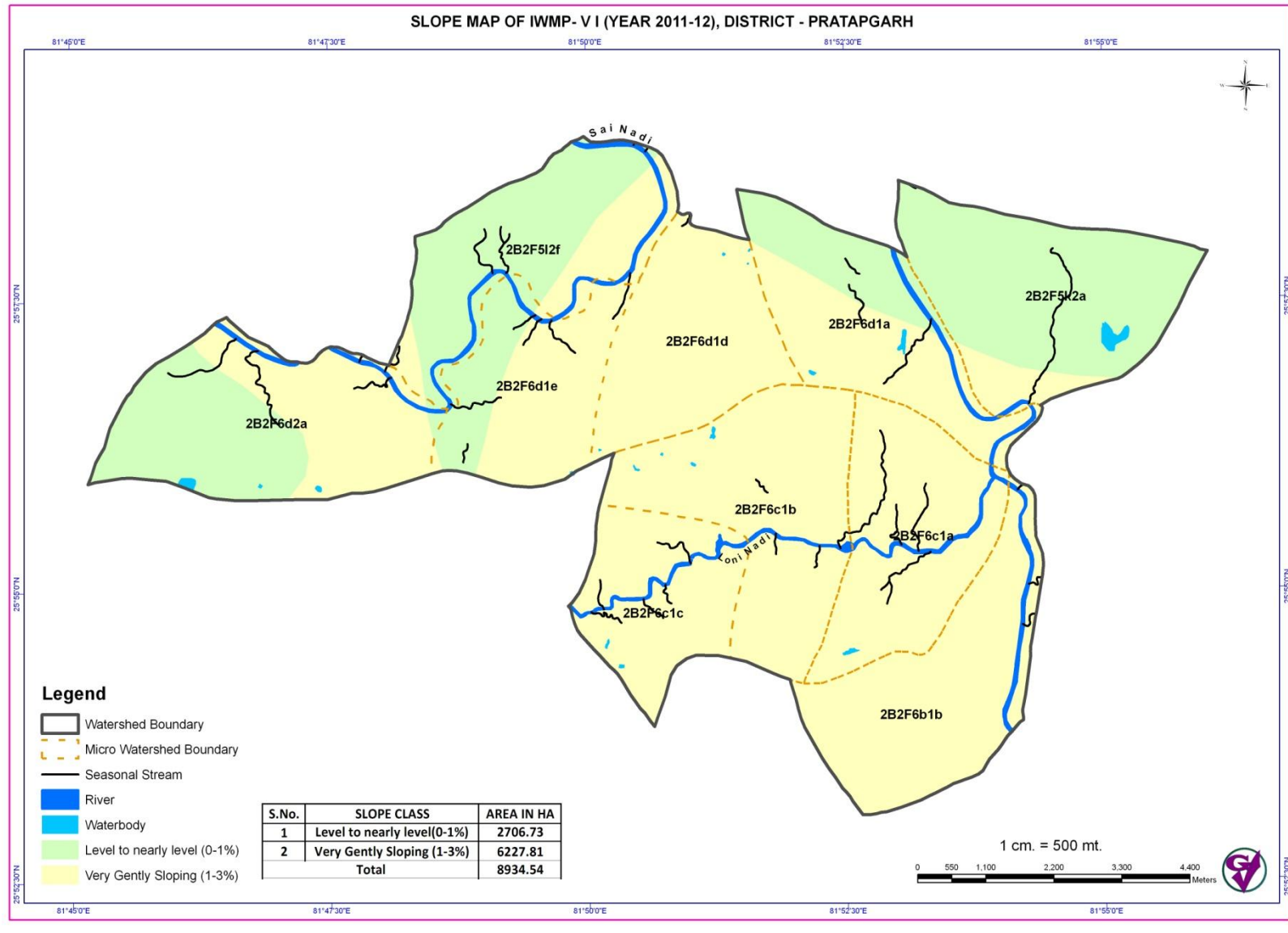
Various watershed maps viz. base map, slope map, drainage map, land capability class map, land use map etc required for planning of suitable soil and water conservation measures are given below:

3.3.1 Base Map

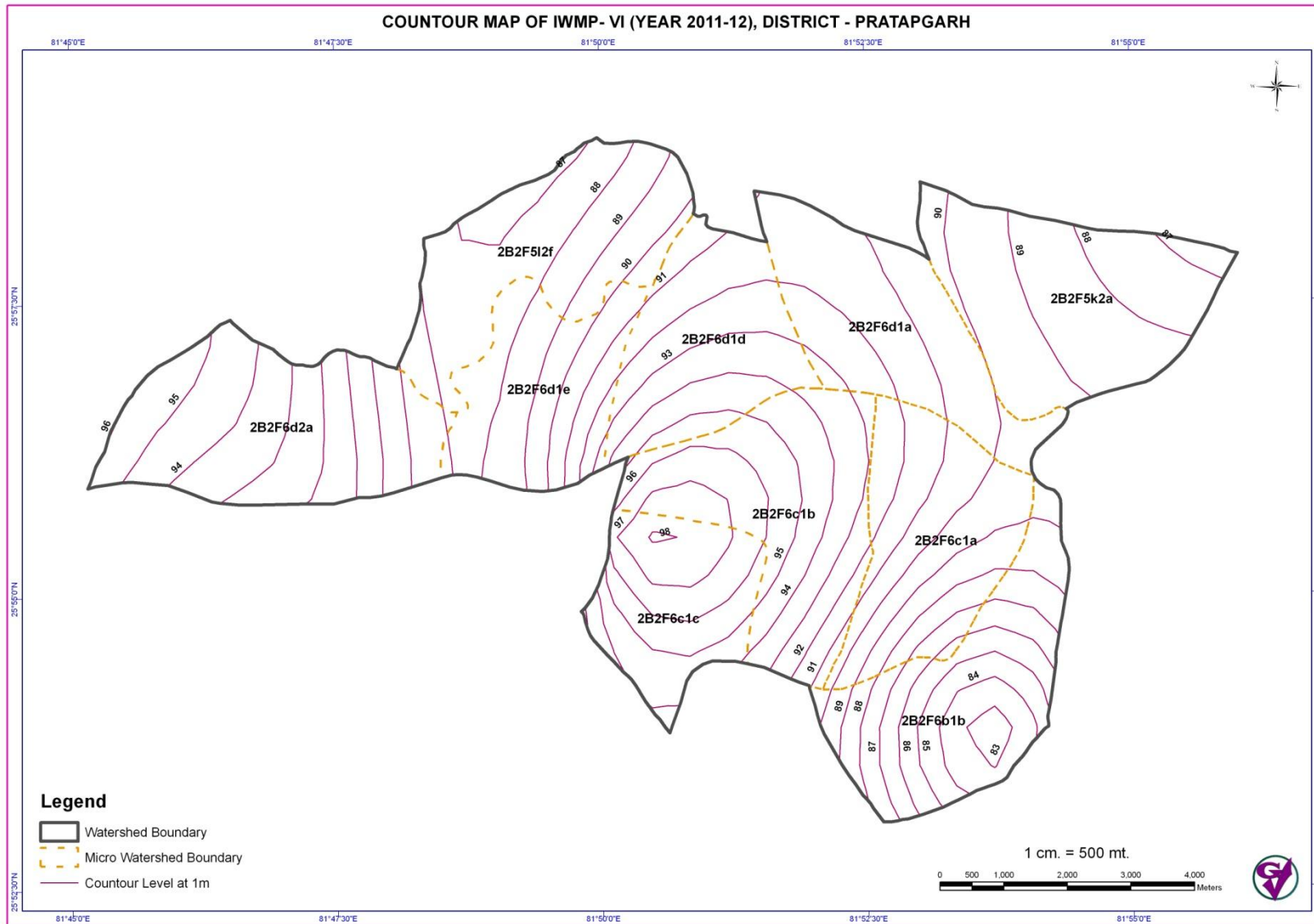
The Base map of Sandwa Chandrika IWMP-VI watershed is given below:



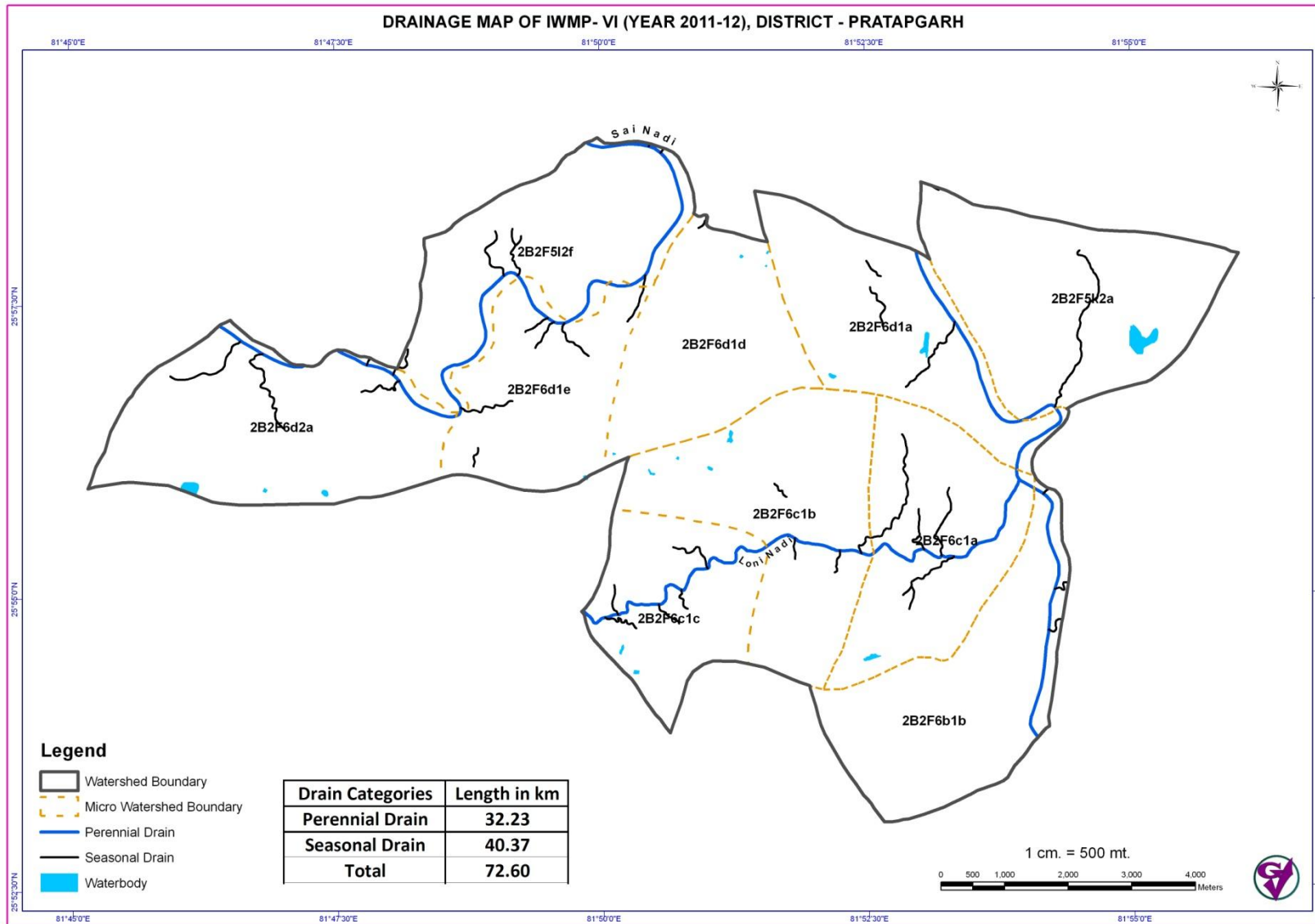
3.3.2 Slope Map: The slope map of the watershed is given below. It is observed that general land slope of the watershed is 1-3%.



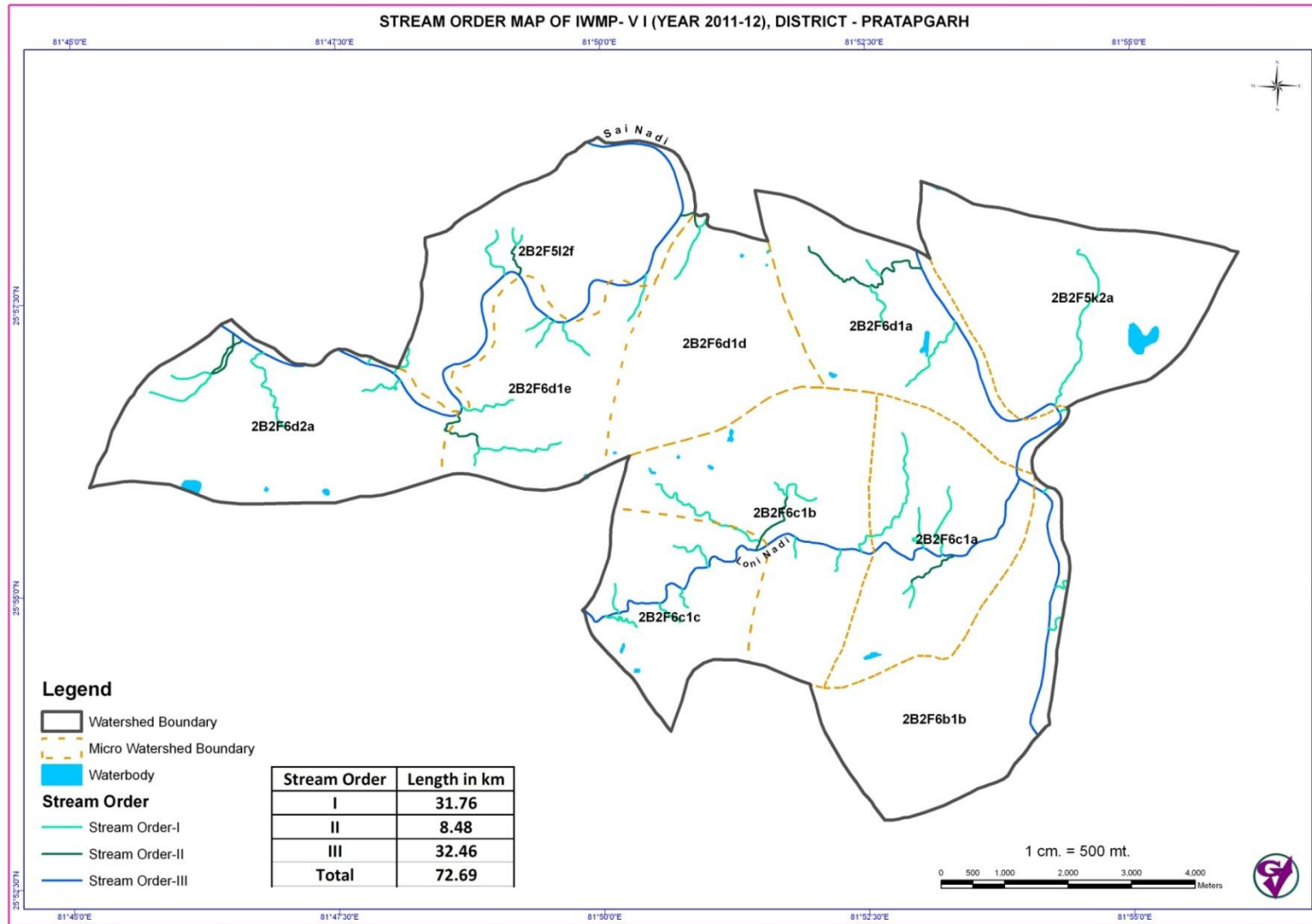
3.3.3 Contour Map: The lowest elevation of the watershed is 83 m amsl and the highest elevation is 98 m amsl.



3.3.4 Drainage Map: Seasonality: The total length of seasonal stream is 40.37 km whereas perennial stream is 32.23km.

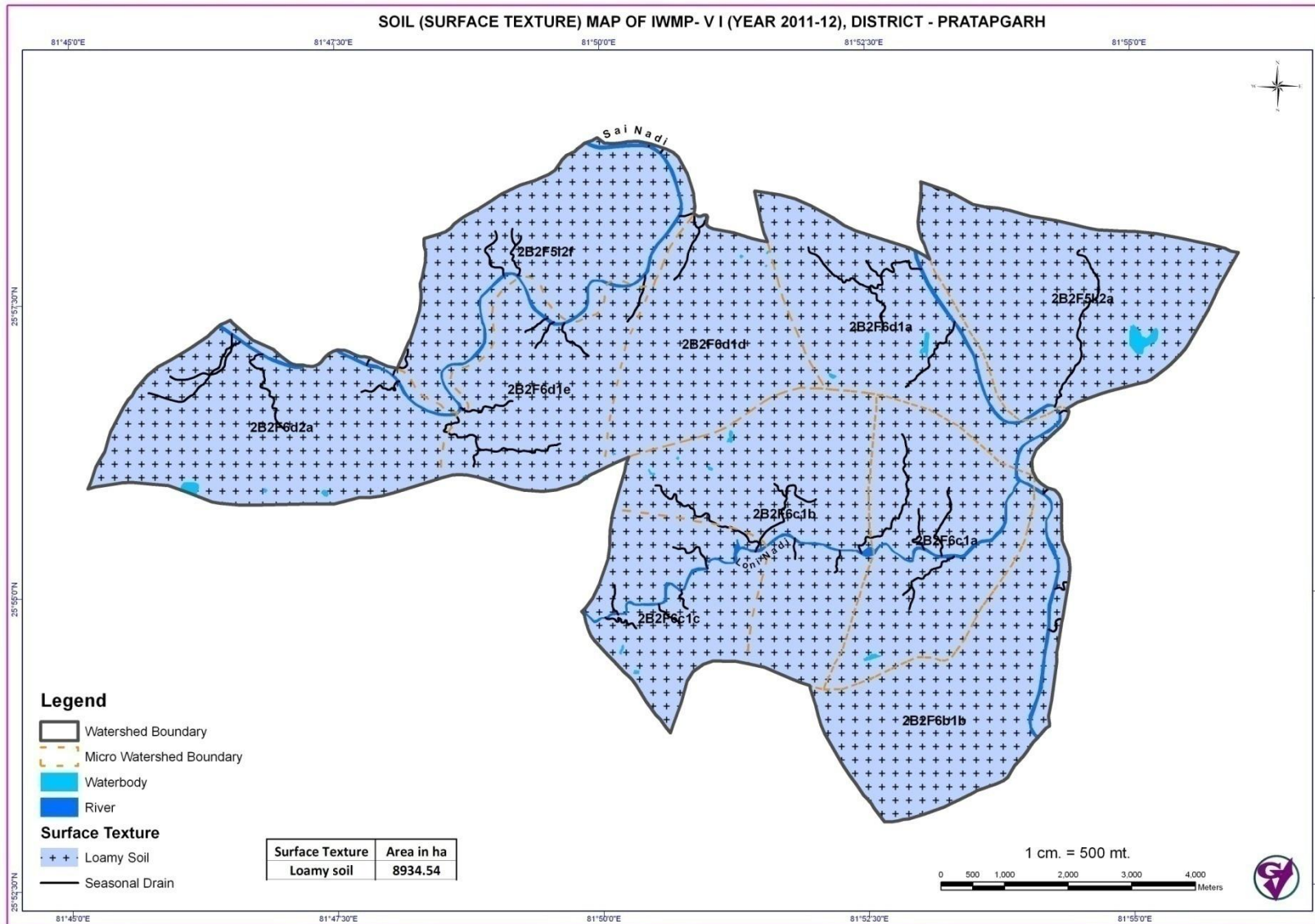


3.3.5 Stream order map: The Sandwa Chandrika watershed is IIIrd order stream watershed. The stream order map of the watershed is given

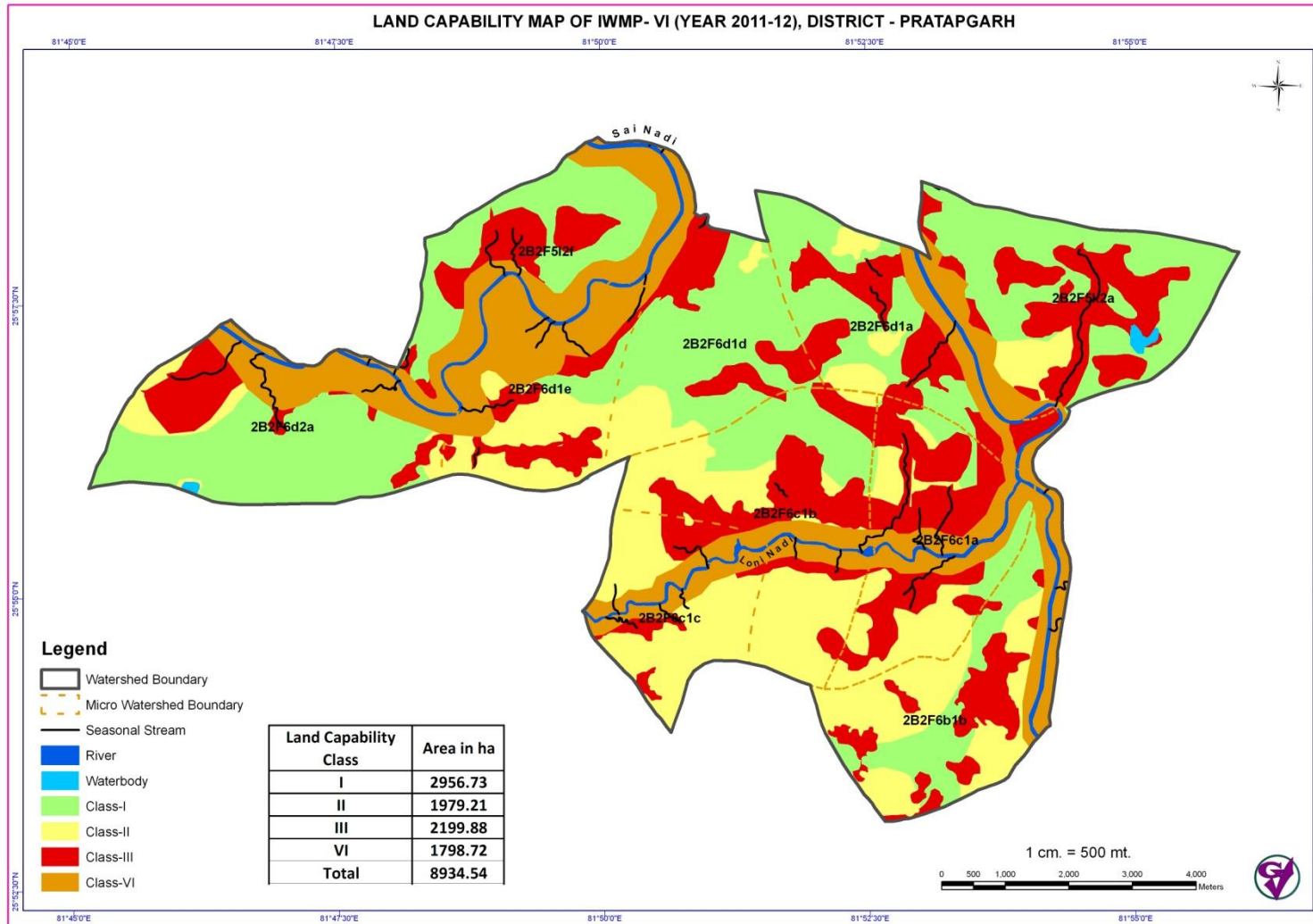


below:

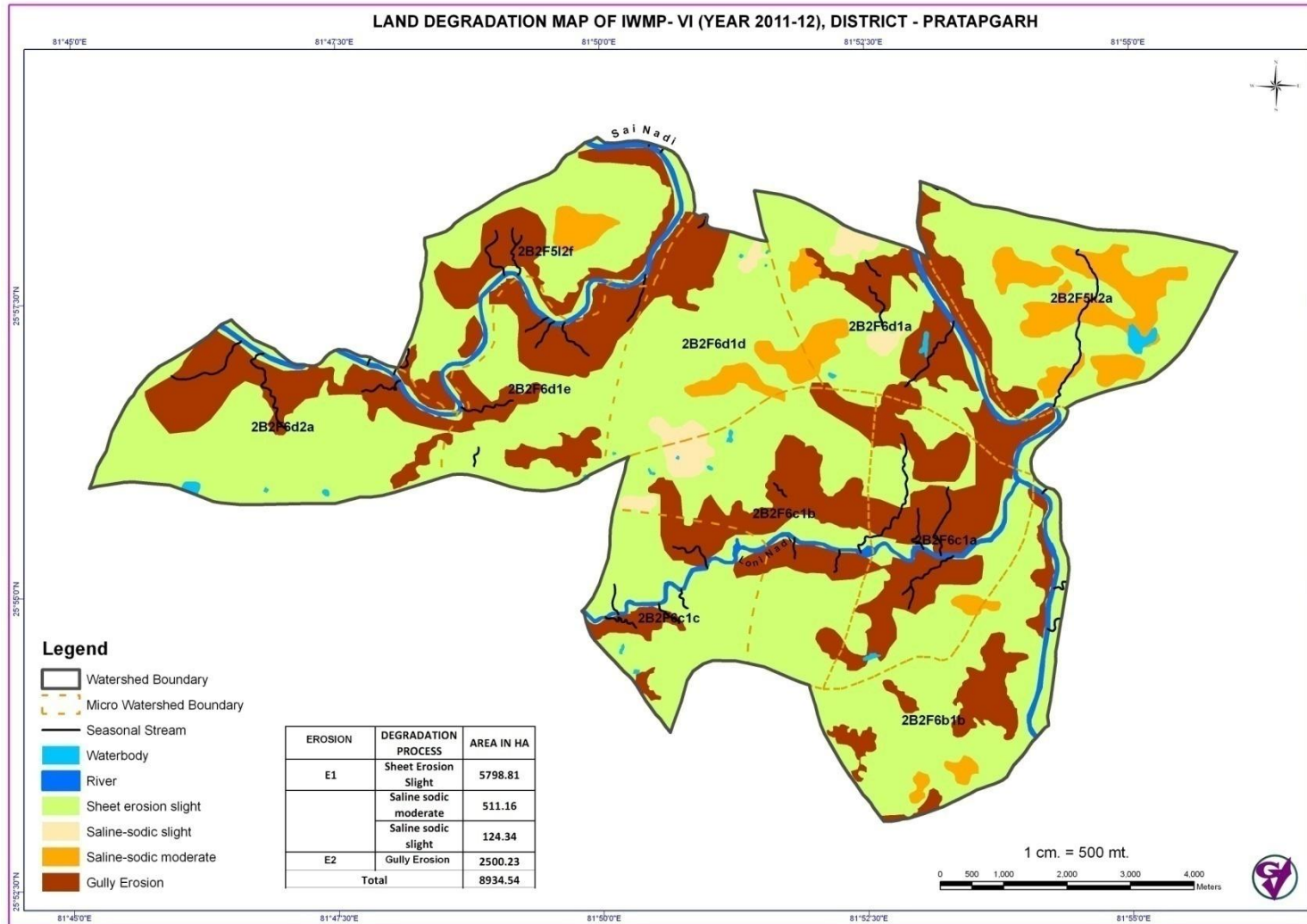
3.3.6 Soil map: The soil map is given below. The soils are light to medium in texture. Soils of the watershed are loamy soil.



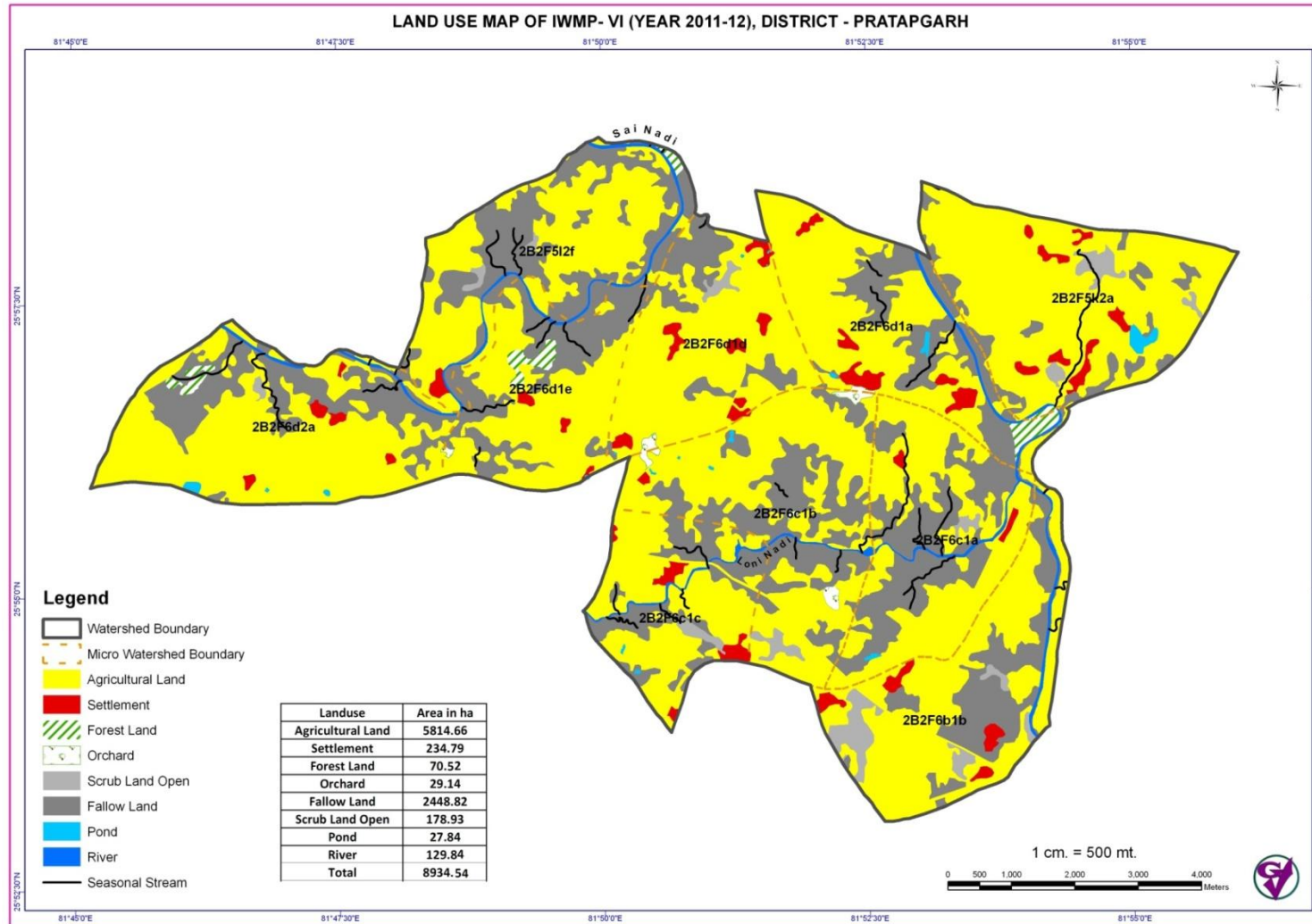
3.3.7 Land Capability Class: Being flat, gently sloped, maximum area under cultivation, almost 33% of the land comes under Class-I. Rest of the 67% of the area needs a proper planning for soil-water conservation. 25% of total area is under Class III, which is moderately susceptible to salinity issue. Almost 20% of the area is under class VI, which is along the drains and river is susceptible to erosion.



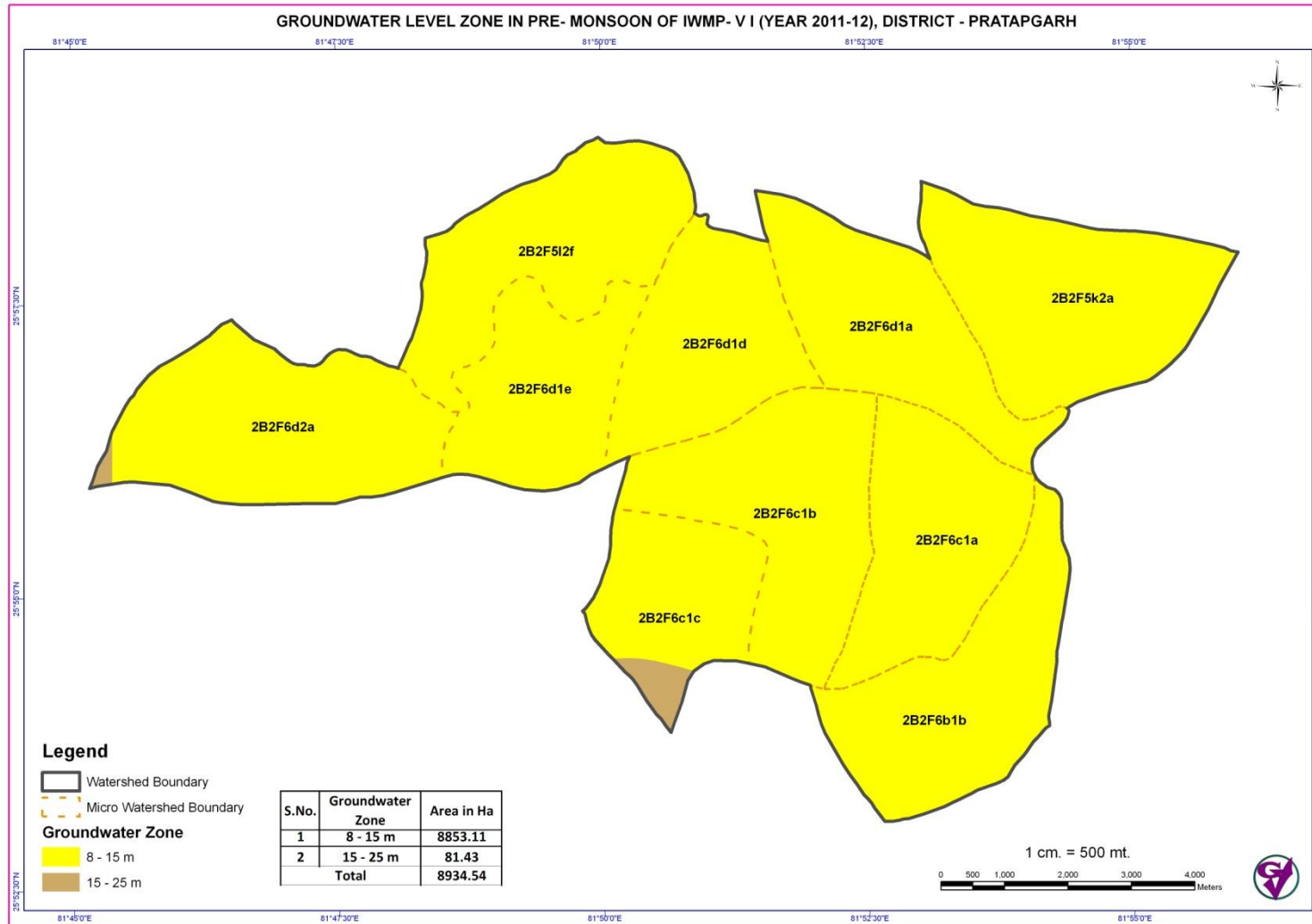
3.3.8 Land degradation: The soil erosion in the cultivated land is not a serious problem in the watershed as about 65% of area is subjected to E₁ erosion. The E₂ erosion is observed in about 28% area which is along the streams, whereas 7% area has salinity problem.

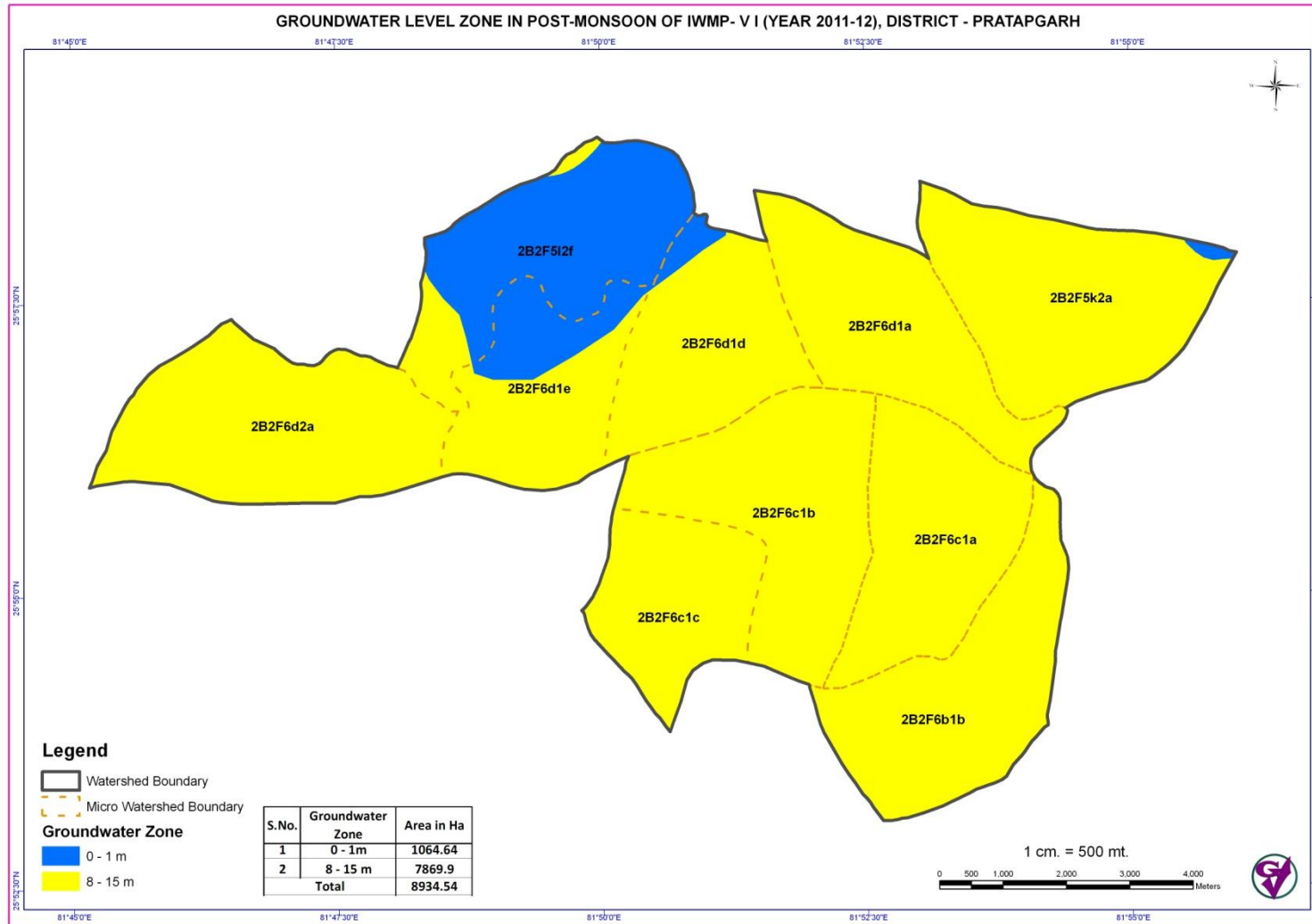


3.3.9 Landuse: The total area of the watershed is 8934.54 ha. Only 65% area of the land is under cultivation and 27% land is fallow. The remaining area of about 8% is under small fraction of forest, community land, orchard, habitation and other uses. The land use map is given below:



3.3.10 Ground water level map: The pre and post monsoon ground water maps are given below. During pre-monsoon, the groundwater occurs in 8-15m depth almost in 99% of the area. Post-monsoon, the groundwater level increases almost upto the ground level along the Sai river during rainy season. The groundwater throughout year is maintained to 8-15meter in 99% area is mainly due to recharge from rivers.





3.4 Climate

Climate of the watershed semiarid climate with very cold and dry winters from December to Mid February and dry, hot summers from April to Mid June. The rainy season is from mid-June to mid-October when it gets an average rainfall of 788 mm mostly from the south-west monsoon winds. It can be observed from the annual mean of the last century (19001-2002) that average rainfall has decreased with increasing variability across years. The average rainfall has varied between 562 to 1269mm in last ten years, and such variations are not conducive for the agriculture. The mean maximum temperature is 33°C, whereas minimum temperature is 20°C. During winter, temperature drops down to 8-9 °C, but in some extreme events it has gone below 4°C. Fog is quite common from late December to late January. Relative humidity varies between 85 to 20% across an year. Summers can be hot with temperatures rising upto 41°C with lowest relative humidity of 20%.

Month	Rainfall (mm)											Temperature(°C)*		RH (%) *		
	1901-2002	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Max	Min	8.30 IST	17.30 IST	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
January	19.1	0	0	0	0	0.8	6.7	0	32.3	2	69.3	23.0	8.8	82	57	
February	14.3	20	0	51.4	0	0	23.6	12.5	2	93.7	20.8	26.6	11.4	73	47	
March	10.3	24.1	11	31.1	0	0	0	0	0	4.7	41.8	32.8	15.8	52	29	
April	4.5	0	3	0	0	0	0	0	1	1	6	39.5	22.2	37	20	
May	7.7	5	21.9	3	25.1	26	26	35.3	0	0	15.3	41.5	26.3	42	25	
June	87.8	10.7	33.5	73.4	197.9	0	0	159.6	23	433.2	44.3	39.8	28.2	56	41	
July	295.3	184.9	436	228.6	436.5	319.6	249.3	179.2	305.6	241	249.7	33.9	26.4	82	74	
August	318.0	190.3	165	136.1	210.7	89.3	228.6	194.4	166.6	293.9	134.3	32.9	26.0	85	77	
September	178.4	119.5	30.7	125.9	66.3	111.3	168.3	244.5	218.7	94.2	66	32.7	25.0	84	75	
October	33.1	7.6	9.4	8.7	15.7	82.7	3.3	0	0.8	102.9	134.7	33.4	21.0	74	61	
November	9.1	0	2.3	0	0	12	12	0	0	0	0	30.5	15.0	70	54	
December	5.6	0	0	0	0	6.3	0	0	0	2.7	2	25.2	9.9	77	58	
Total	983.2	562.1	712.8	658.2	952.2	648.0	717.8	825.5	750.0	1269.3	784.2	Avg = 33	20	68	51	
Average rainfall (mm) in last 10 years =											788.0		* Mean of 1971-2000			
Nearest meteorological station / observation points (km)								Meteorological station: Allahbad				Rainguage: Pratapgarh				
GPS location of meteorological station								81°48'51"E 25°18'54"N								
Altitude of meteorological station (amsl)								107 m								

Source: www.imd.gov.in & Regional meteorological center, Amausi, Lucknow <http://amssdelhi.gov.in>

3.5 Natural calamities

Natural calamities of the watershed for the past 10 years are given below:

Microwatershed wise natural calamities of the watershed for the past 10 years							
Name of Micro Watershed	Code of Micro Watershed	Type of calamities	Very severe/ Severe/mild	Years in which affected	Reported Farm family affected	% of crop area affected	% of livestock mortality
Nevada Kalan	(2B2F5k2a)	Drought	Severe	2013	8	NA	NA
Daandurpuran Singh	(2B2F5i2f)	Drought	Mild	2013	7	NA	NA
Katkavli	(2B2F6b1b)	Drought	Severe	2013	8	NA	NA
Teliyahi	(2B2F6c1a)	Drought	Very Severe	2013	9	NA	NA
Chaimar Saraiyya	(2B2F6c1b)	Drought	Severe	2013	8	NA	NA
Khargapur	(2B2F6c1c)	Drought	Severe	2013	8	NA	NA
Kataiyya Nevada	(2B2F6d1a)	Drought	Very Severe	2013	9	NA	NA
Devali	(2B2F6d1d)	Drought	Mild	2013	7	NA	NA
Sandwa Somvanshiyan	(2B2F6d1e)	Drought	Mild	2013	7	NA	NA
Sagra Sundarpur	(2B2F6d2a)	Drought	Very Severe	2013	15	NA	NA
Total					86	NA	NA

3.6 Physiography and Soils

Physiographically, the watershed falls under the Gangetic alluvial plains¹, which is characterized by an almost imperceptible change in elevation and uniform riverain material. Watershed as a whole is fairly compact tract of gently undulating land. Alluvium, the only geotechnical province, has high permeability and low compressive strength. The soils are light to medium in texture. Soil of the almost whole watershed is loamy soil, moderately alkaline in some paches. Soils of the watershed are deficient in organic matter and soil nutrients. It has high permeability and low compressive strength. *Reh* infestation in the area south of Sai, waterlogging in low lying areas during monsoon and gully erosion in sandy area

¹ Proceedings of the constraints and priorities for research and development in Agriculture and allied sectors of Uttar Pradesh, U.P. council of Agriculture Research, Lucknow, U.P. India 2002.

along Sai river and its tributary water streams etc. are the main natural hazards affecting the upland. Channel Plains of Sai and Loni Rivers and lower elevations of terrace plain are submerged during annual food. Deposits of silt and clay, located mainly on alluvium are exploited for making bricks. Sand deposits are few and are associated with Channel Plain of Sai River. Light brown sandy to loam soil, found near drainages, generally poor in water holding capacity but has high permeability. Hence these areas are good for recharge structures. Also such soil is low organic matter, moderately alkaline.

Sl. No	Name of Microwatershed	Area (ha)	Soil depth	Saline/ Alkaline	Fertility	Status of macro nutrients	Status of micro nutrient
1	2	3	4	5	6	7	8
1	Nevada Kalan (2B2F5k2a)	1085.36	>100 cm	Moderate to severe	Medium	Organic Carbon and Nitrogen Deficient	Zn Deficient
2	Daandurpuran Singh (2B2F5i2f)	932.79	>100 cm	Moderate	Medium		Zn Deficient
3	Katkavli (2B2F6b1b)	952.02	>100 cm	Slight to moderate	Medium		Zn Deficient
4	Teliyahi (2B2F6c1a)	862.12	>100 cm	Slight to moderate	Medium		Zn Deficient
5	Chaimar Saraiyya (2B2F6c1b)	1033.72	>100 cm	Slight	Average		Zn Deficient
6	Khargapur (2B2F6c1c)	622.33	>100 cm	-	High		-
7	Kataiyya Nevada (2B2F6d1a)	854.92	>100 cm	Slight to moderate	Medium		Zn Deficient
8	Devali (2B2F6d1d)	770.77	>100 cm	Moderate	High		Zn Deficient
9	Sandwa Somvanshiyan (2B2F6d1e)	706.45	>100 cm	-	High		-
10	Sagra Sundarpur (2B2F6d2a)	1114.04	>100 cm	-	Average		-
	Total	8934.54	>100 cm				

3.7 Hydro-logy

Sai and Ganges are the main rivers flowing through Pratapgarh district. In the south-west the Ganges forms the boundary of the district for about 50 kilometres (31 mi). Separating it from Fatehpur and Allahabad and in the extreme north-east the Gomti forms the boundary.

Sl. No.	Name of water source	Capacity/number
1	Canal	Not Available
a	Type	Not Available
b	Discharge (cubic meter per second)	Not Available
c	Flow months	Not Available
d	Maintenance	Not Available
2	Open dug up well	-
a	Average water table (m)	8-15 m
b	Total number	78
c	Number of functioning wells	65
d	Number of defunct wells	13
e	Diameter of the well (give range), m	3-4
f	Number of lined wells	45
g	Number of unlined wells	33
h	Whether well has parapet wall	some have
i	Whether used for ground water recharge	No
j	Main purpose	-
i	Drinking water	√
ii	Irrigation	√
iii	For cattle	√
3	Tube well	
i	Number of tube wells installed	1520
ii	Number of functional tube wells	1475
iii	Number of defunct tube wells	45
iv	Average depth (give range), m	42 m
v	Diameter (give range), cm	10 cm
vi	Average discharge (cubic meter per second)	NA
vii	Average working hours per year (hrs)	Approx. 385 hrs (Depends on Rainfall & Electricity)
4	Open dug up ponds	-
i	Number of open dug up ponds	94
ii	Number of ponds used for irrigation	22
iii	Average depth of open dug up ponds (give range also), m	2
iv	Average size (give range), ha	0.25

3.8 Human population

Total population is 111,639. Out of these, 18.6% population belongs to schedule caste and schedule tribe collectively. The gender ratio is 1035:1000 in SC communities whereas 1002:1000 in general categories, which are still better than national average and state average. The overall gender ratio is 1009:1000. Village wise population is given below:

Sr. No	Name of Villages	Name of Gram Panchayat	Male			Female			Total			Total Population
			SC	ST	General	SC	ST	General	SC	ST	General	
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Ajgra	Ajgra	492	0	2412	584	0	2377	1076	0	4789	5865
2	Badhani	Badhani	87	0	560	95	0	538	182	0	1098	1280
3	Bahloolpur	Bahloolpur	94	0	705	69	0	582	163	0	1287	1450
4	Bahuchara	Bahuchara	184	0	848	190	0	857	374	0	1705	2079
5	Bankati	Hariherpur Kailha	74	0	216	65	0	166	139	0	382	521
6	Bansupur	Bansupur	39	0	653	41	0	573	80	0	1226	1306
7	Barista	Barista	73	0	568	91	0	643	164	0	1211	1375
8	Basupur	Basupur	19	0	713	11	0	721	30	0	1434	1464
9	Bhuwalpur	Bhuwalpur	113	0	317	119	0	353	232	0	670	902
10	Biliamgarh	Paharpur	65	0	202	59	0	202	124	0	404	528
11	Bojhwa	Bojhwa	167	0	403	181	0	414	348	0	817	1165
12	Chaemar Saraiya	Chaemar Saraiya	279	0	491	313	0	534	592	0	1025	1617
13	Chitari	Tina	94	0	237	115	0	233	209	0	470	679
14	Dadu Puran Singh	Dadu Puran Singh	334	0	668	391	0	710	725	0	1378	2103
15	Dandupur Padan	Bahloolpur	124	0	388	130	0	347	254	0	735	989
16	Dekahi	Dekahi	162	0	649	149	0	585	311	0	1234	1545
17	Deoli	Deoli	338	0	556	353	0	590	691	0	1146	1837
18	Gadwara	Gadwara	144	0	1357	137	0	1290	281	0	2647	2928
19	Gahri	Gahri	179	0	694	192	0	709	371	0	1403	1774
20	Gaura Dand	Gaura Dand	196	0	1043	188	0	1080	384	0	2123	2507
21	Gazi Mahubavan	Gazi Mahubavan	101	0	852	92	0	821	193	0	1673	1866
22	Gharaura	Gharaura	116	0	683	124	0	643	240	0	1326	1566
23	Hadirahi	Gahri	138	1	419	116	1	459	254	2	878	1134
24	Handaur	Handaur	612	0	2112	581	0	2003	1193	0	4115	5308

Sr. No	Name of Villages	Name of Gram Panchayat	Male			Female			Total			Total Population
			SC	ST	General	SC	ST	General	SC	ST	General	
1	2	3	4	5	6	7	8	9	10	11	12	13
25	Hariherpur Kailha	Hariherpur Kailha	107	0	427	117	0	515	224	0	942	1166
26	Itauri	Sagra Sundarpur	121	0	583	129	0	600	250	0	1183	1433
27	Jogapur	Ajgra	177	0	693	162	0	695	339	0	1388	1727
28	Kansapur	Basapur	63	0	246	51	0	244	114	0	490	604
29	Kataka Bali	Kataka Bali	288	0	883	259	0	863	547	0	1746	2293
30	Katata	Rampur Pran	76	0	43	74	0	57	150	0	100	250
31	Kharagpur	Kharagpur	252	0	798	271	0	832	523	0	1630	2153
32	Kodra Madupur	Kodra Madupur	219	0	1690	228	0	1696	447	0	3386	3833
33	Kodra Mangolpur	Kodra Mangolpur	215	0	685	226	0	662	441	0	1347	1788
34	Koiliya	Mavaiya Kala	11	0	75	15	0	91	26	0	166	192
35	Kotya Newada	Kotya Newada	117	0	523	108	0	573	225	0	1096	1321
36	Lilapur	Lilapur	164	0	894	164	0	836	328	0	1730	2058
37	Madupur	Badhani	143	0	563	136	0	530	279	0	1093	1372
38	Maheshpur	Bojhwa	249	0	275	213	0	266	462	0	541	1003
39	Makaipur	Makaipur	322	0	882	343	0	868	665	0	1750	2415
40	Maniyarpur	Rasulpur Gulraha	60	0	226	82	0	276	142	0	502	644
41	Mattapur Bhoji	Sondwa Duban	11	0	200	12	0	241	23	0	441	464
42	Mavaiya Kala	Mavaiya Kala	284	0	792	293	0	737	577	0	1529	2106
43	Multanipur	Multanipur	151	0	785	140	0	829	291	0	1614	1905
44	Nagapur	Tilauri	46	0	283	32	0	255	78	0	538	616
45	Nevada Kala	Nevada Kala	20	0	513	28	0	522	48	0	1035	1083
46	Paharpur	Paharpur	287	0	1746	314	0	1820	601	0	3566	4167
47	Pathraha	Kataka Bali	109	0	157	114	0	148	223	0	305	528
48	Pure Birbal	Multanipur	128	0	664	130	0	597	258	0	1261	1519
49	Pure Khusai	Pure Khusai	75	0	1338	68	0	1320	143	0	2658	2801
50	Pure Varishal	Trlokpur Visai	64	0	179	69	0	220	133	0	399	532
51	Rahima Kuli	Gahri	47	0	129	39	0	148	86	0	277	363
52	Rajapur Kala	Sangrampur Kila	96	0	402	94	0	416	190	0	818	1008
53	Rajwadi	Rampur Pran	78	0	279	67	0	253	145	0	532	677

Sr. No	Name of Villages	Name of Gram Panchayat	Male			Female			Total			Total Population
			SC	ST	General	SC	ST	General	SC	ST	General	
1	2	3	4	5	6	7	8	9	10	11	12	13
54	Rampur Dahani urf Rampur Khajur	Rampur Khajur	76	0	155	110	0	201	186	0	356	542
55	Rampur Pran	Rampur Pran	22	0	322	13	0	402	35	0	724	759
56	Rasulpur Gulraha	Rasulpur Gulraha	110	0	374	131	0	478	241	0	852	1093
57	Sadhampur	Nevada Kala	34	0	321	36	0	365	70	0	686	756
58	Sagra Sundarpur	Sagra Sundarpur	327	0	1944	334	0	1777	661	0	3721	4382
59	Sakrauli	Sakrauli	120	0	601	151	0	699	271	0	1300	1571
60	Sandwa Sombansian	Sondwa Duban	37	0	495	53	0	471	90	0	966	1056
61	Sangrampur Kila	Sangrampur Kila	83	0	586	115	0	664	198	0	1250	1448
62	Sarai Lachiman Dev	Tej Garh	7	0	82	4	0	105	11	0	187	198
63	Sarbajpur	Rampur Khajur	161	0	480	163	0	509	324	0	989	1313
64	Shakuhabad	Tilauri	12	0	502	12	0	457	24	0	959	983
65	Shivrajpur	Shivrajpur	250	0	1487	235	0	1377	485	0	2864	3349
66	Sondwa Duban	Sondwa Duban	73	0	305	101	0	311	174	0	616	790
67	Tej Garh	Tej Garh	159	0	835	168	0	753	327	0	1588	1915
68	Teliyahi	Teliyahi	130	0	859	156	0	1040	286	0	1899	2185
69	Tetarpur	Rasulpur Gulraha	66	0	84	45	0	86	111	0	170	281
70	Tilauri	Tilauri	39	0	412	46	0	405	85	0	817	902
71	Trlokpur Visai	Trlokpur Visai	204	0	594	258	0	617	462	0	1211	1673
72	Yadavpur	Sakrauli	106	0	221	91	0	216	197	0	437	634
Total			10220	1	45358	10586	1	45473	20806	2	90831	111639
Gender Ratio						1035:1000		1002:1000	1009:1000			

Source: Population Census 2011

3.9 Literacy rate:

About 62% people in the watershed are literate. Gender biases in literacy are visible as 68% male and 57% female are literate. Village wise literacy is provided in the following table.

Sr. No.	Name of Villages	Name of Gram Panchayat	Male		Female		Total		Total Population
			Literate	Illiterate	Literate	Illiterate	Literate	Illiterate	
1	2	3	4	5	6	7	8	9	10
1	Ajgra	Ajgra	1975	929	1688	1273	3663	2202	5865
2	Badhani	Badhani	440	207	361	272	801	479	1280
3	Bahloolpur	Bahloolpur	543	256	371	280	914	536	1450
4	Bahuchara	Bahuchara	702	330	597	450	1299	780	2079
5	Bankati	Hariherpur Kailha	197	93	132	99	329	192	521
6	Bansupur	Bansupur	471	221	350	264	821	485	1306
7	Barista	Barista	436	205	418	316	854	521	1375
8	Basupur	Basupur	498	234	417	315	915	549	1464
9	Bhuwalpur	Bhuwalpur	292	138	269	203	561	341	902
10	Biliamgarh	Paharpur	182	85	149	112	331	197	528
11	Bojhwa	Bojhwa	388	182	339	256	727	438	1165
12	Chaemar Saraiya	Chaemar Saraiya	524	246	483	364	1007	610	1617
13	Chitari	Tina	225	106	198	150	423	256	679
14	Dadu Puran Singh	Dadu Puran Singh	681	321	628	473	1309	794	2103
15	Dandupur Padan	Bahloolpur	348	164	272	205	620	369	989
16	Dekahi	Dekahi	551	260	418	316	969	576	1545
17	Deoli	Deoli	608	286	538	405	1146	691	1837
18	Gadwara	Gadwara	1021	480	813	614	1834	1094	2928
19	Gahri	Gahri	594	279	514	387	1108	666	1774
20	Gaura Dand	Gaura Dand	843	396	723	545	1566	941	2507
21	Gazi Mahubavan	Gazi Mahubavan	648	305	520	393	1168	698	1866
22	Gharaura	Gharaura	543	256	437	330	980	586	1566
23	Hadirahi	Gahri	379	179	328	248	707	427	1134
24	Handaur	Handaur	1852	872	1473	1111	3325	1983	5308
25	Hariherpur Kailha	Hariherpur Kailha	363	171	360	272	723	443	1166
26	Itauri	Sagra Sundarpur	479	225	416	313	895	538	1433
27	Jogapur	Ajgra	592	278	488	369	1080	647	1727
28	Kansapur	Basupur	210	99	168	127	378	226	604
29	Kataka Bali	Kataka Bali	796	375	640	482	1436	857	2293
30	Katata	Rampur Pran	81	38	75	56	156	94	250
31	Kharagpur	Kharagpur	714	336	629	474	1343	810	2153
32	Kodra Madupur	Kodra Madupur	1298	611	1097	827	2395	1438	3833
33	Kodra Mangolpur	Kodra Mangolpur	612	288	506	382	1118	670	1788
34	Koiliya	Mavaiya Kala	58	28	60	46	118	74	192
35	Kotya Newada	Kotya Newada	435	205	388	293	823	498	1321
36	Lilapur	Lilapur	719	339	570	430	1289	769	2058
37	Madupur	Badhani	480	226	380	286	860	512	1372
38	Maheshpur	Bojhwa	356	168	273	206	629	374	1003
39	Makaipur	Makaipur	819	385	690	521	1509	906	2415
40	Maniyarpur	Rasulpur Gulraha	194	92	204	154	398	246	644
41	Mattupur Bhoji	Sondwa Duban	143	68	144	109	287	177	464
42	Mavaiya Kala	Mavaiya Kala	732	344	587	443	1319	787	2106
43	Multanipur	Multanipur	636	300	552	417	1188	717	1905
44	Nagapur	Tilauri	224	105	164	123	388	228	616

Sr. No.	Name of Villages	Name of Gram Panchayat	Male		Female		Total		Total Population
			Literate	Illiterate	Literate	Illiterate	Literate	Illiterate	
1	2	3	4	5	6	7	8	9	10
45	Nevada Kala	Nevada Kala	362	171	314	236	676	407	1083
46	Paharpur	Paharpur	1382	651	1216	918	2598	1569	4167
47	Pathraha	Kataka Bali	181	85	149	113	330	198	528
48	Pure Birbal	Multanipur	539	253	414	313	953	566	1519
49	Pure Khusai	Pure Khusai	961	452	791	597	1752	1049	2801
50	Pure Varishal	Trlokpur Visai	165	78	165	124	330	202	532
51	Rahima Kuli	Gahri	120	56	107	80	227	136	363
52	Rajapur Kala	Sangrampur Kila	339	159	291	219	630	378	1008
53	Rajwadi	Rampur Pran	243	114	182	138	425	252	677
54	Rampur Dahani urf Rampur Khajur	Rampur Khajur	157	74	177	134	334	208	542
55	Rampur Pran	Rampur Pran	234	110	237	178	471	288	759
56	Rasulpur Gulraha	Rasulpur Gulraha	329	155	347	262	676	417	1093
57	Sadhapur	Nevada Kala	241	114	229	172	470	286	756
58	Sagra Sundarpur	Sagra Sundarpur	1544	727	1203	908	2747	1635	4382
59	Sakrauli	Sakrauli	490	231	485	365	975	596	1571
60	Sandwa Sombansian	Sondwa Duban	362	170	299	225	661	395	1056
61	Sangrampur Kila	Sangrampur Kila	455	214	444	335	899	549	1448
62	Sarai Lachiman Dev	Tej Garh	61	28	62	47	123	75	198
63	Sarbajpur	Rampur Khajur	436	205	383	289	819	494	1313
64	Shakuhabad	Tilauri	350	164	267	202	617	366	983
65	Shivrajpur	Shivrajpur	1181	556	919	693	2100	1249	3349
66	Sondwa Duban	Sondwa Duban	257	121	235	177	492	298	790
67	Tej Garh	Tej Garh	676	318	525	396	1201	714	1915
68	Teliyahi	Teliyahi	673	316	682	514	1355	830	2185
69	Tetarpur	Rasulpur Gulraha	102	48	75	56	177	104	281
70	Tilauri	Tilauri	307	144	257	194	564	338	902
71	Trlokpur Visai	Trlokpur Visai	543	255	499	376	1042	631	1673
72	Yadavpur	Sakrauli	222	105	175	132	397	237	634
	Total		3779	17785	3195	24104	6975	41889	111639
			68%		57%		62%		

Source: Population Census, 2011

3.10 Socio-economic aspects

The Socio-economic condition of the people is not very encouraging as 7% of population is below poverty line and 8% population is landless. The total workforce is 35% of the total population, which derives a logical conclusion i.e. 65% of the population, is dependant on the income from rest of the population which is also a partial reason for distressed poverty. 62% of population is directly dependent on the agriculture out of which only 7% are cultivators whereas significantly 55% of total workforce is agriculture laborers. 91% of famers have land holding less than 1 ha and segmented and scattered agriculture cannot be easily promoted to mechanization. The income level of these small and marginal farmers needs to be enhanced through intergrated farming systems, mechanization, allied livelihood avenues, etc. Thrust has to be given to promote integrated crop management in pulses and oilseeds considering their importance in present agriculture. Around 33% of

families have a salaried job, which is a reason of withdrawal of interest in agriculture. Total 11% families are women headed, which also bring in distress on the family. Despite moderate literacy rate of 62%, the unemployment is high as current education qualification does not necessarily competent in the market. Hence vocational training, higher education facilities are also required. Almost As many families of the watershed are landless, their livelihood depends upon the occasional employment they get in agriculture sector or they migrate to the nearby city for day to day labour work. The livelihood avenues for landless people like small scale enterprises (PPP model), vocational training on other skillset like plumbing, masonry, etc. should be imparted.

3.11 Details of farming community, land less families and families below poverty line

About 8% families of the watershed are land less and about 7% families are below below poverty line. Gram Panchayat wise details are given below:

Sr.No.	Name of Villages	Name of Gram Panchayat	Landless families	Farmer families	Total families	Number of BPL families
1	2	3	4	5	6	7
1	Ajgra	Ajgra	29	918	947	66
2	Badhani	Badhani	2	206	208	15
3	Bahloolpur	Bahloolpur	14	180	194	14
4	Bahuchara	Bahuchara	23	355	378	26
5	Bankati	Hariherpur Kailha	12	71	83	14
6	Bansupur	Bansupur	8	226	234	16
7	Barista	Barista	7	214	221	15
8	Basupur	Basupur	2	228	230	16
9	Bhuwalpur	Bhuwalpur	17	132	149	10
10	Biliamgarh	Paharpur	2	97	99	7
11	Bojhwa	Bojhwa	3	189	192	13
12	Chaemar Saraiya	Chaemar Saraiya	8	289	297	21
13	Chitari	Tina	1	130	131	9
14	Dadu Puran Singh	Dadu Puran Singh	69	322	391	27
15	Dandupur Padan	Bahloolpur	3	175	178	12
16	Dekahi	Dekahi	31	204	235	16
17	Deoli	Deoli	20	323	343	24
18	Gadwara	Gadwara	24	435	459	32
19	Gahri	Gahri	3	293	296	21
20	Gaura Dand	Gaura Dand	32	380	412	29
21	Gazi Mahubavan	Gazi Mahubavan	1	296	297	21
22	Gharaura	Gharaura	56	207	263	11
23	Hadirahi	Gahri	2	170	172	12
24	Handaur	Handaur	75	732	807	56
25	Hariherpur Kailha	Hariherpur Kailha	10	215	225	16
26	Itauri	Sagra Sundarpur	16	243	259	18
27	Jogapur	Ajgra	52	203	255	18
28	Kansapur	Basupur	0	82	82	6
29	Kataka Bali	Kataka Bali	24	380	404	28
30	Katata	Rampur Pran	0	43	43	3
31	Kharagpur	Kharagpur	34	335	369	26
32	Kodra Madupur	Kodra Madupur	189	457	646	35
33	Kodra Mangolpur	Kodra Mangolpur	12	312	324	23
34	Koiliya	Mavaiya Kala	1	30	31	2
35	Kotya Newada	Kotya Newada	67	180	247	31

Sr.No.	Name of Villages	Name of Gram Panchayat	Landless families	Farmer families	Total families	Number of BPL families
1	2	3	4	5	6	7
36	Lilapur	Lilapur	16	305	321	22
37	Madupur	Badhani	4	230	234	16
38	Maheshpur	Bojhwa	0	173	173	12
39	Makaipur	Makaipur	34	363	397	28
40	Maniyarpur	Rasulpur Gulraha	3	114	117	8
41	Mattupur Bhoji	Sondwa Duban	6	76	82	6
42	Mavaiya Kala	Mavaiya Kala	7	344	351	25
43	Multanipur	Multanipur	4	303	307	21
44	Nagapur	Tilauri	6	83	89	6
45	Nevada Kala	Nevada Kala	2	200	202	14
46	Paharpur	Paharpur	12	743	755	53
47	Pathraha	Kataka Bali	1	81	82	6
48	Pure Birbal	Multanipur	13	230	243	17
49	Pure Khusai	Pure Khusai	33	67	100	7
50	Pure Varishal	Trlokpur Visai	211	258	469	56
51	Rahima Kuli	Gahri	0	60	60	4
52	Rajapur Kala	Sangrampur Kila	14	141	155	11
53	Rajwadi	Rampur Pran	8	85	93	7
54	Rampur Dahani urf Rampur Khajur	Rampur Khajur	12	75	87	6
55	Rampur Pran	Rampur Pran	36	122	158	11
56	Rasulpur Gulraha	Rasulpur Gulraha	14	214	228	16
57	Sadhopor	Nevada Kala	1	130	131	9
58	Sagra Sundarpur	Sagra Sundarpur	44	683	727	51
59	Sakrauli	Sakrauli	0	280	280	20
60	Sandwa Sombansian	Sondwa Duban	6	178	184	13
61	Sangrampur Kila	Sangrampur Kila	7	256	263	18
62	Sarai Lachiman Dev	Tej Garh	0	38	38	3
63	Sarbajpur	Rampur Khajur	1	223	224	16
64	Shakuhabad	Tilauri	17	135	152	11
65	Shivrajpur	Shivrajpur	43	444	487	34
66	Sondwa Duban	Sondwa Duban	7	126	133	9
67	Tej Garh	Tej Garh	3	263	266	19
68	Teliyahi	Teliyahi	51	321	372	26
69	Tetarpur	Rasulpur Gulraha	3	45	48	3
70	Tilauri	Tilauri	0	122	122	9
71	Trlokpur Visai	Trlokpur Visai	58	251	309	22
72	Yadavpur	Sakrauli	6	107	113	8
	Total		1532	17121	18653	1332
			8%			7%

Source: Land Revenue Record, BSA, Pratapgarh & PRA

3.12 Details about social categories of families

About 19.2% families are scheduled cast, only one family belongs to schedule tribe are rest of the families are general category families. Village wise details about social categories of farmers are given below:

Sr.No.	Name of Villages	Name of Gram Panchayat	No. of SC families	No. of ST families	No. of General category families	Total families
1	2	3	4	5	6	7
1	Ajgra	Ajgra	174	0	773	947
2	Badhani	Badhani	30	0	178	208
3	Bahloolpur	Bahloolpur	22	0	172	194
4	Bahuchara	Bahuchara	68	0	310	378
5	Bankati	Hariherpur Kailha	22	0	61	83
6	Bansupur	Bansupur	14	0	220	234
7	Barista	Barista	26	0	195	221
8	Basupur	Basupur	5	0	225	230
9	Bhuwalpur	Bhuwalpur	38	0	111	149
10	Biliamgarh	Paharpur	23	0	76	99
11	Bojhwa	Bojhwa	57	0	135	192
12	Chaemar Saraiya	Chaemar Saraiya	109	0	188	297
13	Chitari	Tina	40	0	91	131
14	Dadu Puran Singh	Dadu Puran Singh	135	0	256	391
15	Dandupur Padan	Bahloolpur	46	0	132	178
16	Dekahi	Dekahi	47	0	188	235
17	Deoli	Deoli	129	0	214	343
18	Gadwara	Gadwara	44	0	415	459
19	Gahri	Gahri	62	0	234	296
20	Gaura Dand	Gaura Dand	63	0	349	412
21	Gazi Mahubavan	Gazi Mahubavan	31	0	266	297
22	Gharaura	Gharaura	40	0	223	263
23	Hadirahi	Gahri	38	1	133	172
24	Handaur	Handaur	181	0	626	807
25	Hariherpur Kailha	Hariherpur Kailha	43	0	182	225
26	Itauri	Sagra Sundarpur	45	0	214	259
27	Jogapur	Ajgra	50	0	205	255
28	Kansapur	Basupur	15	0	67	82
29	Kataka Bali	Kataka Bali	96	0	308	404
30	Katata	Rampur Pran	26	0	17	43
31	Kharagpur	Kharagpur	90	0	279	369
32	Kodra Madupur	Kodra Madupur	75	0	571	646
33	Kodra Mangolpur	Kodra Mangolpur	80	0	244	324
34	Koiliya	Mavaiya Kala	4	0	27	31
35	Kotya Newada	Kotya Newada	42	0	205	247
36	Lilapur	Lilapur	51	0	270	321
37	Madupur	Badhani	48	0	186	234
38	Maheshpur	Bojhwa	80	0	93	173
39	Makaipur	Makaipur	109	0	288	397
40	Maniyarpur	Rasulpur Gulraha	26	0	91	117
41	Mattupur Bhoji	Sondwa Duban	4	0	78	82
42	Mavaiya Kala	Mavaiya Kala	96	0	255	351
43	Multanipur	Multanipur	47	0	260	307
44	Nagapur	Tilauri	11	0	78	89
45	Nevada Kala	Nevada Kala	9	0	193	202
46	Paharpur	Paharpur	109	0	646	755

Sr.No.	Name of Villages	Name of Gram Panchayat	No. of SC families	No. of ST families	No. of General category families	Total families
1	2	3	4	5	6	7
47	Pathraha	Kataka Bali	35	0	47	82
48	Pure Birbal	Multanipur	41	0	202	243
49	Pure Khusai	Pure Khusai	5	0	95	100
50	Pure Varishal	Trlokpur Visai	117	0	352	469
51	Rahima Kuli	Gahri	14	0	46	60
52	Rajapur Kala	Sangrampur Kila	29	0	126	155
53	Rajwadi	Rampur Pran	20	0	73	93
54	Rampur Dahani urf Rampur Khajur	Rampur Khajur	30	0	57	87
55	Rampur Pran	Rampur Pran	7	0	151	158
56	Rasulpur Gulraha	Rasulpur Gulraha	50	0	178	228
57	Sadhapur	Nevada Kala	12	0	119	131
58	Sagra Sundarpur	Sagra Sundarpur	110	0	617	727
59	Sakrauli	Sakrauli	48	0	232	280
60	Sandwa Sombansian	Sondwa Duban	16	0	168	184
61	Sangrampur Kila	Sangrampur Kila	36	0	227	263
62	Sarai Lachiman Dev	Tej Garh	2	0	36	38
63	Sarbajpur	Rampur Khajur	55	0	169	224
64	Shakuhabad	Tilauri	4	0	148	152
65	Shivrajpur	Shivrajpur	71	0	416	487
66	Sondwa Duban	Sondwa Duban	29	0	104	133
67	Tej Garh	Tej Garh	45	0	221	266
68	Teliyahi	Teliyahi	49	0	323	372
69	Tetarpur	Rasulpur Gulraha	19	0	29	48
70	Tilauri	Tilauri	11	0	111	122
71	Trlokpur Visai	Trlokpur Visai	85	0	224	309
72	Yadavpur	Sakrauli	35	0	78	113
	Total		3575	1	15077	18653
19.2%						

Source: Land Revenue Record,, Pratapgarh & PRA

3.13 Details about social categories based on gender

Out of total families, about 9% families of scheduled cast are women headed whereas about 12% families under general category are women headed. Village wise details are given in the following table

Sr. No.	Name Of Villages	Name Of Gram Panchayat	Number of SC Families		Number of ST Families		Number of Gen. category Families		Total families		Total Families
			Man headed	Women headed	Man headed	Women headed	Man headed	Women headed	Man headed	Women headed	
1	2	3	4	5	6	7	8	9	10	11	12
1	Ajgra	Ajgra	158	16	0	0	680	93	838	109	947
2	Badhani	Badhani	27	3	0	0	157	21	184	24	208
3	Bahloolpur	Bahloolpur	20	2	0	0	151	21	171	23	194
4	Bahuchara	Bahuchara	62	6	0	0	273	37	335	43	378
5	Bankati	Hariherpur Kailha	20	2	0	0	54	7	74	9	83
6	Bansupur	Bansupur	13	1	0	0	194	26	207	27	234
7	Barista	Barista	24	2	0	0	172	23	196	25	221
8	Basupur	Basupur	5	0	0	0	198	27	203	27	230
9	Bhuwalpur	Bhuwalpur	35	3	0	0	98	13	133	16	149
10	Biliamgarh	Paharpur	21	2	0	0	67	9	88	11	99
11	Bojhwa	Bojhwa	52	5	0	0	119	16	171	21	192
12	Chaemar Saraiya	Chaemar Saraiya	99	10	0	0	165	23	264	33	297
13	Chitari	Tina	36	4	0	0	80	11	116	15	131
14	Dadu Puran Singh	Dadu Puran Singh	123	12	0	0	225	31	348	43	391
15	Dandupur Padan	Bahloolpur	42	4	0	0	116	16	158	20	178
16	Dekahi	Dekahi	43	4	0	0	165	23	208	27	235
17	Deoli	Deoli	117	12	0	0	188	26	305	38	343
18	Gadwara	Gadwara	40	4	0	0	365	50	405	54	459
19	Gahri	Gahri	56	6	0	0	206	28	262	34	296
20	Gaura Dand	Gaura Dand	57	6	0	0	307	42	364	48	412
21	Gazi Mahubavan	Gazi Mahubavan	28	3	0	0	234	32	262	35	297
22	Gharaura	Gharaura	36	4	0	0	196	27	232	31	263
23	Hadirahi	Gahri	35	3	1	0	117	16	153	19	172
24	Handaur	Handaur	165	16	0	0	551	75	716	91	807

Sr. No.	Name Of Villages	Name Of Gram Panchayat	Number of SC Families		Number of ST Families		Number of Gen. category Families		Total families		Total Families
			Man headed	Women headed	Man headed	Women headed	Man headed	Women headed	Man headed	Women headed	
1	2	3	4	5	6	7	8	9	10	11	12
25	Hariherpur Kailha	Hariherpur Kailha	39	4	0	0	160	22	199	26	225
26	Itauri	Sagra Sundarpur	41	4	0	0	188	26	229	30	259
27	Jogapur	Ajgra	46	4	0	0	180	25	226	29	255
28	Kansapur	Basupur	14	1	0	0	59	8	73	9	82
29	Kataka Bali	Kataka Bali	87	9	0	0	271	37	358	46	404
30	Katata	Rampur Pran	24	2	0	0	15	2	39	4	43
31	Kharagpur	Kharagpur	82	8	0	0	246	33	328	41	369
32	Kodra Madupur	Kodra Madupur	68	7	0	0	502	69	570	76	646
33	Kodra Mangolpur	Kodra Mangolpur	73	7	0	0	215	29	288	36	324
34	Koiliya	Mavaiya Kala	4	0	0	0	24	3	28	3	31
35	Kotya Newada	Kotya Newada	38	4	0	0	180	25	218	29	247
36	Lilapur	Lilapur	46	5	0	0	238	32	284	37	321
37	Madupur	Badhani	44	4	0	0	164	22	208	26	234
38	Maheshpur	Bojhwa	73	7	0	0	82	11	155	18	173
39	Makaipur	Makaipur	99	10	0	0	253	35	352	45	397
40	Maniyarpur	Rasulpur Gulraha	24	2	0	0	80	11	104	13	117
41	Mattupur Bhoji	Sondwa Duban	4	0	0	0	69	9	73	9	82
42	Mavaiya Kala	Mavaiya Kala	87	9	0	0	224	31	311	40	351
43	Multanipur	Multanipur	43	4	0	0	229	31	272	35	307
44	Nagapur	Tilauri	10	1	0	0	69	9	79	10	89
45	Nevada Kala	Nevada Kala	8	1	0	0	170	23	178	24	202
46	Paharpur	Paharpur	99	10	0	0	568	78	667	88	755
47	Pathraha	Kataka Bali	32	3	0	0	41	6	73	9	82
48	Pure Birbal	Multanipur	37	4	0	0	178	24	215	28	243
49	Pure Khusai	Pure Khusai	5	0	0	0	84	11	89	11	100
50	Pure Varishal	Trlokpur Visai	106	11	0	0	310	42	416	53	469
51	Rahima Kuli	Gahri	13	1	0	0	40	6	53	7	60
52	Rajapur Kala	Sangrapur Kila	26	3	0	0	111	15	137	18	155
53	Rajwadi	Rampur Pran	18	2	0	0	64	9	82	11	93

Sr. No.	Name Of Villages	Name Of Gram Panchayat	Number of SC Families		Number of ST Families		Number of Gen. category Families		Total families		Total Families
			Man headed	Women headed	Man headed	Women headed	Man headed	Women headed	Man headed	Women headed	
1	2	3	4	5	6	7	8	9	10	11	12
54	Rampur Dahani urf Rampur Khajur	Rampur Khajur	27	3	0	0	50	7	77	10	87
55	Rampur Pran	Rampur Pran	6	1	0	0	133	18	139	19	158
56	Rasulpur Gulraha	Rasulpur Gulraha	46	4	0	0	157	21	203	25	228
57	Sadhapur	Nevada Kala	11	1	0	0	105	14	116	15	131
58	Sagra Sundarpur	Sagra Sundarpur	100	10	0	0	543	74	643	84	727
59	Sakrauli	Sakrauli	44	4	0	0	204	28	248	32	280
60	Sandwa Sombansian	Sondwa Duban	15	1	0	0	148	20	163	21	184
61	Sangrampur Kila	Sangrampur Kila	33	3	0	0	200	27	233	30	263
62	Sarai Lachiman Dev	Tej Garh	2	0	0	0	32	4	34	4	38
63	Sarbajpur	Rampur Khajur	50	5	0	0	149	20	199	25	224
64	Shakuhabad	Tilauri	4	0	0	0	130	18	134	18	152
65	Shivrajpur	Shivrajpur	65	6	0	0	366	50	431	56	487
66	Sondwa Duban	Sondwa Duban	26	3	0	0	92	12	118	15	133
67	Tej Garh	Tej Garh	41	4	0	0	194	27	235	31	266
68	Teliyahi	Teliyahi	45	4	0	0	284	39	329	43	372
69	Tetarapur	Rasulpur Gulraha	17	2	0	0	26	3	43	5	48
70	Tilauri	Tilauri	10	1	0	0	98	13	108	14	122
71	Trlokpur Visai	Trlokpur Visai	77	8	0	0	197	27	274	35	309
72	Yadavpur	Sakrauli	32	3	0	0	69	9	101	12	113
	Total		3255	320	1	0	13269	1808	16525	2128	18653
	% ge of Man headed families		91%		100%		88%		89%		

Source: PRA & Gram Panchayat

3.14 Details about occupation

Sr. No.	Name Of Villages	Name Of Gram Panchayat	Total work force					Total population	
			Cultivator	Agri Labour	Non Agri Labour	Salaried	Self-employed		Total workforce
1	2	3	4	5	6	7	8	9	10
1	Ajgra	Ajgra	33	587	138	1531	24	2313	5865
2	Badhani	Badhani	41	187	14	59	31	332	1280
3	Bahloolpur	Bahloolpur	37	220	8	151	26	442	1450
4	Bahuchara	Bahuchara	35	392	48	21	28	524	2079
5	Bankati	Hariherpur Kailha	19	39	75	19	10	162	521
6	Bansupur	Bansupur	27	179	42	154	18	420	1306
7	Barista	Barista	39	80	2	481	33	635	1375
8	Basupur	Basupur	48	82	19	630	30	809	1464
9	Bhuwalpur	Bhuwalpur	33	149	6	119	29	336	902
10	Biliamgarh	Paharpur	48	93	5	144	29	319	528
11	Bojhwa	Bojhwa	33	158	5	122	27	345	1165
12	Chaemar Saraiya	Chaemar Saraiya	50	210	73	241	39	613	1617
13	Chitari	Tina	46	24	7	23	31	131	679
14	Dadu Puran Singh	Dadu Puran Singh	41	596	120	117	33	907	2103
15	Dandupur Padan	Bahloolpur	43	46	3	468	26	586	989
16	Dekahi	Dekahi	39	356	58	33	25	511	1545
17	Deoli	Deoli	41	272	52	150	32	547	1837
18	Gadwara	Gadwara	43	413	48	226	33	763	2928
19	Gahri	Gahri	28	156	27	415	21	647	1774
20	Gaura Dand	Gaura Dand	35	429	192	44	22	722	2507
21	Gazi Mahubavan	Gazi Mahubavan	51	220	98	355	36	760	1866
22	Gharaura	Gharaura	58	116	223	58	30	485	1566
23	Hadirahi	Gahri	38	41	5	233	28	345	1134
24	Handaur	Handaur	39	1039	224	341	31	1674	5308
25	Hariherpur Kailha	Hariherpur Kailha	50	143	62	218	33	506	1166
26	Itauri	Sagra Sundarpur	37	164	29	145	23	398	1433
27	Jogapur	Ajgra	33	545	124	47	25	774	1727
28	Kansapur	Basupur	30	20	0	200	23	273	604
29	Kataka Bali	Kataka Bali	38	398	153	51	29	669	2293

Sr. No.	Name Of Villages	Name Of Gram Panchayat	Total work force					Total population	
			Cultivator	Agri Labour	Non Agri Labour	Salaried	Self-employed		Total workforce
1	2	3	4	5	6	7	8	9	10
30	Katata	Rampur Pran	38	4	1	32	27	102	250
31	Kharagpur	Kharagpur	37	434	182	78	25	756	2153
32	Kodra Madupur	Kodra Madupur	143	285	546	143	71	1188	3833
33	Kodra Mangolpur	Kodra Mangolpur	34	335	201	40	28	638	1788
34	Koiliya	Mavaiya Kala	33	21	3	14	22	93	192
35	Kotya Newada	Kotya Newada	49	98	189	49	25	410	1321
36	Lilapur	Lilapur	34	313	28	369	29	773	2058
37	Madupur	Badhani	43	165	8	166	36	418	1372
38	Maheshpur	Bojhwa	34	50	4	227	24	339	1003
39	Makaipur	Makaipur	44	505	201	209	32	991	2415
40	Maniyarpur	Rasulpur Gulraha	37	239	153	48	23	500	644
41	Mattupur Bhoji	Sondwa Duban	30	86	32	79	24	251	464
42	Mavaiya Kala	Mavaiya Kala	37	199	34	673	33	976	2106
43	Multanipur	Multanipur	43	158	25	118	34	378	1905
44	Nagapur	Tilauri	33	135	29	136	21	354	616
45	Nevada Kala	Nevada Kala	39	176	74	87	26	402	1083
46	Paharpur	Paharpur	27	252	77	1300	21	1677	4167
47	Pathraha	Kataka Bali	34	20	0	126	29	209	528
48	Pure Birbal	Multanipur	29	190	1	290	18	528	1519
49	Pure Khusai	Pure Khusai	104	208	399	104	53	868	2801
50	Pure Varishal	Trlokpur Visai	20	40	76	20	9	165	532
51	Rahima Kuli	Gahri	33	41	8	30	23	135	363
52	Rajapur Kala	Sangrampur Kila	36	188	24	45	30	323	1008
53	Rajwadi	Rampur Pran	9	154	64	70	5	302	677
54	Rampur Dahani urf Rampur Khajur	Rampur Khajur	37	87	1	10	28	163	542
55	Rampur Pran	Rampur Pran	27	245	24	20	22	338	759
56	Rasulpur Gulraha	Rasulpur Gulraha	27	123	22	13	18	203	1093
57	Sadhampur	Nevada Kala	35	39	0	99	23	196	756
58	Sagra Sundarpur	Sagra Sundarpur	40	1030	373	6	25	1474	4382

Sr. No.	Name Of Villages	Name Of Gram Panchayat	Total work force					Total population	
			Cultivator	Agri Labour	Non Agri Labour	Salaried	Self-employed		Total workforce
1	2	3	4	5	6	7	8	9	10
59	Sakrauli	Sakrauli	39	67	2	431	28	567	1571
60	Sandwa Sombansian	Sondwa Duban	31	418	308	141	22	920	1056
61	Sangrampur Kila	Sangrampur Kila	31	204	7	184	19	445	1448
62	Sarai Lachiman Dev	Tej Garh	22	1	0	28	15	66	198
63	Sarbajpur	Rampur Khajur	27	87	7	115	18	254	1313
64	Shakuhabad	Tilauri	40	210	18	48	26	342	983
65	Shivrajpur	Shivrajpur	35	518	45	304	23	925	3349
66	Sondwa Duban	Sondwa Duban	31	77	12	106	21	247	790
67	Tej Garh	Tej Garh	47	207	20	160	32	466	1915
68	Teliyahi	Teliyahi	28	520	34	39	18	639	2185
69	Tetarpur	Rasulpur Gulraha	40	27	3	27	25	122	281
70	Tilauri	Tilauri	27	183	3	9	18	240	902
71	Trlokpur Visai	Trlokpur Visai	21	640	217	47	14	939	1673
72	Yadavpur	Sakrauli	44	109	56	24	30	263	634
	Total		2762	16442	5371	13060	1898	39533	111639
	%ge of total workforce		7.0%	41.6%	13.6%	33.0%	4.8%		
	Total workforce as %ge of total population							35%	

Source: Population Census, 2011

3.15 Details about land holding

About 91% farmers of watershed have landholding less than 1ha, 7% farmers are with landholding between 1-2 ha and only 2% farmers have land holding more than 2ha.

Sr. No.	Name of Villages	Name of Gram Panchayat	Farmers with < 1 ha land	Farmers with >1 ha<2 ha land	Farmers with > 2 ha land	Total farmers
1	2	3	4	5	6	7
1	Ajgra	Ajgra	835	64	19	918
2	Badhani	Badhani	187	14	5	206
3	Bahloolpur	Bahloolpur	164	13	3	180
4	Bahuchara	Bahuchara	323	25	7	355
5	Bankati	Hariherpur Kailha	65	5	1	71
6	Bansupur	Bansupur	206	16	4	226
7	Barista	Barista	195	15	4	214
8	Basupur	Basupur	207	16	5	228
9	Bhuwalpur	Bhuwalpur	120	9	3	132
10	Biliamgarh	Paharpur	88	7	2	97
11	Bojhwa	Bojhwa	172	13	4	189
12	Chaemar Saraiya	Chaemar Saraiya	263	20	6	289
13	Chitari	Tina	118	9	3	130
14	Dadu Puran Singh	Dadu Puran Singh	293	23	6	322
15	Dandupur Padan	Bahloolpur	159	12	4	175
16	Dekahi	Dekahi	186	14	4	204
17	Deoli	Deoli	294	23	6	323
18	Gadwara	Gadwara	396	30	9	435
19	Gahri	Gahri	267	21	5	293
20	Gaura Dand	Gaura Dand	346	27	7	380
21	Gazi Mahubavan	Gazi Mahubavan	269	21	6	296
22	Gharaura	Gharaura	188	14	5	207
23	Hadirahi	Gahri	155	12	3	170
24	Handaur	Handaur	666	51	15	732
25	Hariherpur Kailha	Hariherpur Kailha	196	15	4	215
26	Itauri	Sagra Sundarpur	221	17	5	243
27	Jogapur	Ajgra	185	14	4	203
28	Kansapur	Basupur	75	6	1	82
29	Kataka Bali	Kataka Bali	346	27	7	380
30	Katata	Rampur Pran	39	3	1	43
31	Kharagpur	Kharagpur	305	23	7	335
32	Kodra Madupur	Kodra Madupur	416	32	9	457
33	Kodra Mangolpur	Kodra Mangolpur	284	22	6	312
34	Koiliya	Mavaiya Kala	27	2	1	30
35	Kotya Newada	Kotya Newada	164	13	3	180
36	Lilapur	Lilapur	278	21	6	305
37	Madupur	Badhani	209	16	5	230
38	Maheshpur	Bojhwa	157	12	4	173
39	Makaipur	Makaipur	330	25	8	363
40	Maniyarpur	Rasulpur Gulraha	104	8	2	114
41	Mattupur Bhoji	Sondwa Duban	69	5	2	76
42	Mavaiya Kala	Mavaiya Kala	313	24	7	344
43	Multanipur	Multanipur	276	21	6	303
44	Nagapur	Tilauri	76	6	1	83
45	Nevada Kala	Nevada Kala	182	14	4	200

Sr. No.	Name of Villages	Name of Gram Panchayat	Farmers with < 1 ha land	Farmers with >1 ha<2 ha land	Farmers with > 2 ha land	Total farmers
1	2	3	4	5	6	7
46	Paharpur	Paharpur	676	52	15	743
47	Pathraha	Kataka Bali	74	6	1	81
48	Pure Birbal	Multanipur	209	16	5	230
49	Pure Khusai	Pure Khusai	61	5	1	67
50	Pure Varishal	Trlokpur Visai	235	18	5	258
51	Rahima Kuli	Gahri	55	4	1	60
52	Rajapur Kala	Sangrampur Kila	128	10	3	141
53	Rajwadi	Rampur Pran	77	6	2	85
54	Rampur Dahani urf Rampur Khajur	Rampur Khajur	68	5	2	75
55	Rampur Pran	Rampur Pran	111	9	2	122
56	Rasulpur Gulraha	Rasulpur Gulraha	195	15	4	214
57	Sadhapur	Nevada Kala	118	9	3	130
58	Sagra Sundarpur	Sagra Sundarpur	622	48	13	683
59	Sakrauli	Sakrauli	255	20	5	280
60	Sandwa Sombansian	Sondwa Duban	162	12	4	178
61	Sangrampur Kila	Sangrampur Kila	233	18	5	256
62	Sarai Lachiman Dev	Tej Garh	35	3	0	38
63	Sarbajpur	Rampur Khajur	203	16	4	223
64	Shakuhabad	Tilauri	123	9	3	135
65	Shivrajpur	Shivrajpur	404	31	9	444
66	Sondwa Duban	Sondwa Duban	115	9	2	126
67	Tej Garh	Tej Garh	239	18	6	263
68	Teliyahi	Teliyahi	292	22	7	321
69	Tetarpur	Rasulpur Gulraha	41	3	1	45
70	Tilauri	Tilauri	111	9	2	122
71	Trlokpur Visai	Trlokpur Visai	228	18	5	251
72	Yadavpur	Sakrauli	97	7	3	107
Total			15581	1198	342	17121
%ge of total farmer			91%	7%	2%	

Source: Land revenue record, Pratapgarh & PRA

3.16 Details about livelihood activities

Sr. No.	Name of Village	Name of Gram Panchayat	Occupation			
			Craftsman	Mason	Other	Total
1	2	3	4	5	6	7
1	Ajgra	Ajgra	6	9	9	24
2	Badhani	Badhani	8	11	12	31
3	Bahloolpur	Bahloolpur	7	10	9	26
4	Bahuchara	Bahuchara	8	10	10	28
5	Bankati	Hariherpur Kailha	3	4	3	10
6	Bansupur	Bansupur	5	7	6	18
7	Barista	Barista	9	12	12	33
8	Basupur	Basupur	8	11	11	30
9	Bhuwalpur	Bhuwalpur	8	11	10	29
10	Biliamgarh	Paharpur	8	11	10	29
11	Bojhwa	Bojhwa	7	10	10	27
12	Chaemar Saraiya	Chaemar Saraiya	11	14	14	39
13	Chitari	Tina	8	11	12	31

Sr. No.	Name of Village	Name of Gram Panchayat	Occupation			
			Craftsman	Mason	Other	Total
1	2	3	4	5	6	7
14	Dadu Puran Singh	Dadu Puran Singh	9	12	12	33
15	Dandupur Padan	Bahlolpur	7	10	9	26
16	Dekahi	Dekahi	7	9	9	25
17	Deoli	Deoli	9	12	11	32
18	Gadwara	Gadwara	9	12	12	33
19	Gahri	Gahri	6	8	7	21
20	Gaura Dand	Gaura Dand	6	8	8	22
21	Gazi Mahubavan	Gazi Mahubavan	10	13	13	36
22	Gharaura	Gharaura	8	11	11	30
23	Hadirahi	Gahri	8	10	10	28
24	Handaur	Handaur	8	11	12	31
25	Hariherpur Kailha	Hariherpur Kailha	9	12	12	33
26	Itauri	Sagra Sundarpur	6	9	8	23
27	Jogapur	Ajgra	7	9	9	25
28	Kansapur	Basupur	6	9	8	23
29	Kataka Bali	Kataka Bali	8	11	10	29
30	Katata	Rampur Pran	7	10	10	27
31	Kharagpur	Kharagpur	7	9	9	25
32	Kodra Madupur	Kodra Madupur	19	26	26	71
33	Kodra Mangolpur	Kodra Mangolpur	8	10	10	28
34	Koiliya	Mavaiya Kala	6	8	8	22
35	Kotya Newada	Kotya Newada	7	9	9	25
36	Lilapur	Lilapur	8	11	10	29
37	Madupur	Badhani	10	13	13	36
38	Maheshpur	Bojhwa	6	9	9	24
39	Makaipur	Makaipur	9	12	11	32
40	Maniyarpur	Rasulpur Gulraha	6	9	8	23
41	Mattupur Bhoji	Sondwa Duban	6	9	9	24
42	Mavaiya Kala	Mavaiya Kala	9	12	12	33
43	Multanipur	Multanipur	9	13	12	34
44	Nagapur	Tilauri	6	8	7	21
45	Nevada Kala	Nevada Kala	7	10	9	26
46	Paharpur	Paharpur	6	8	7	21
47	Pathraha	Kataka Bali	8	11	10	29
48	Pure Birbal	Multanipur	5	7	6	18
49	Pure Khusai	Pure Khusai	14	20	19	53
50	Pure Varishal	Trlokpur Visai	2	3	4	9
51	Rahima Kuli	Gahri	6	9	8	23
52	Rajapur Kala	Sangrampur Kila	8	11	11	30
53	Rajwadi	Rampur Pran	1	2	2	5
54	Rampur Dahani urf Rampur Khajur	Rampur Khajur	8	10	10	28
55	Rampur Pran	Rampur Pran	6	8	8	22
56	Rasulpur Gulraha	Rasulpur Gulraha	5	7	6	18
57	Sadhapur	Nevada Kala	6	9	8	23
58	Sagra Sundarpur	Sagra Sundarpur	7	9	9	25
59	Sakrauli	Sakrauli	8	10	10	28
60	Sandwa Sombansian	Sondwa Duban	6	8	8	22
61	Sangrampur Kila	Sangrampur Kila	5	7	7	19

Sr. No.	Name of Village	Name of Gram Panchayat	Occupation			
			Craftsman	Mason	Other	Total
1	2	3	4	5	6	7
62	Sarai Lachiman Dev	Tej Garh	4	6	5	15
63	Sarbajpur	Rampur Khajur	5	7	6	18
64	Shakuhabad	Tilauri	7	10	9	26
65	Shivrajpur	Shivrajpur	6	9	8	23
66	Sondwa Duban	Sondwa Duban	6	8	7	21
67	Tej Garh	Tej Garh	9	12	11	32
68	Teliyahi	Teliyahi	5	7	6	18
69	Tetarpur	Rasulpur Gulraha	7	9	9	25
70	Tilauri	Tilauri	5	7	6	18
71	Trlokpur Visai	Trlokpur Visai	4	5	5	14
72	Yadavpur	Sakrauli	8	11	11	30
	Total		516	705	677	1898

Source: PRA & Gram Panchayats..

3.17 Details about fuel used for cooking meal

Majority of the farmers (70%) still use fire wood for cooking their meal. Only less than 6% has LPG. About 11% people use kerosene oil as fuel for cooking their meal. Village wise fuel used for cooking meal is given in the following table.

Sr. No.	Name Of Villages	Name Of Gram Panchayat	Cooking gas (% of families)	Fire wood (% of families)	Cow dung Cake (% of families)	Kerosene (% of families)
1	2	3	4	5	6	7
1	Ajgra	Ajgra	5%	69%	16%	10%
2	Badhani	Badhani	5%	75%	11%	9%
3	Bahloolpur	Bahloolpur	6%	69%	14%	11%
4	Bahuchara	Bahuchara	5%	70%	16%	9%
5	Bankati	Hariherpur Kailha	6%	69%	16%	9%
6	Bansupur	Bansupur	5%	66%	11%	18%
7	Barista	Barista	4%	72%	13%	11%
8	Basupur	Basupur	5%	59%	11%	25%
9	Bhuwalpur	Bhuwalpur	7%	69%	16%	8%
10	Biliamgarh	Paharpur	5%	75%	11%	9%
11	Bojhwa	Bojhwa	8%	69%	14%	9%
12	Chaemar Saraiya	Chaemar Saraiya	5%	70%	16%	9%
13	Chitari	Tina	4%	69%	16%	11%
14	Dadu Puran Singh	Dadu Puran Singh	5%	66%	11%	18%
15	Dandupur Padan	Bahloolpur	6%	72%	13%	9%
16	Dekahi	Dekahi	5%	59%	11%	25%
17	Deoli	Deoli	8%	72%	15%	5%
18	Gadwara	Gadwara	7%	70%	14%	9%
19	Gahri	Gahri	5%	70%	14%	11%
20	Gaura Dand	Gaura Dand	4%	69%	17%	10%
21	Gazi Mahubavan	Gazi Mahubavan	5%	73%	14%	8%
22	Gharaura	Gharaura	6%	66%	11%	17%
23	Hadirahi	Gahri	5%	68%	16%	11%
24	Handaur	Handaur	9%	72%	14%	5%
25	Hariherpur Kailha	Hariherpur Kailha	8%	70%	15%	7%
26	Itauri	Sagra Sundarpur	6%	71%	14%	9%
27	Jogapur	Ajgra	5%	70%	16%	9%

Sr. No.	Name Of Villages	Name Of Gram Panchayat	Cooking gas (% of families)	Fire wood (% of families)	Cow dung Cake (% of families)	Kerosene (% of families)
1	2	3	4	5	6	7
28	Kansapur	Basapur	7%	72%	15%	6%
29	Kataka Bali	Kataka Bali	8%	69%	17%	6%
30	Katata	Rampur Pran	6%	66%	15%	13%
31	Kharagpur	Kharagpur	6%	70%	14%	10%
32	Kodra Madupur	Kodra Madupur	5%	66%	11%	18%
33	Kodra Mangolpur	Kodra Mangolpur	7%	73%	14%	6%
34	Koiliya	Mavaiya Kala	6%	69%	17%	8%
35	Kotya Newada	Kotya Newada	9%	73%	14%	4%
36	Lilapur	Lilapur	8%	73%	14%	5%
37	Madupur	Badhani	5%	68%	16%	11%
38	Maheshpur	Bojhwa	6%	69%	17%	8%
39	Makaipur	Makaipur	8%	70%	14%	8%
40	Maniyarpur	Rasulpur Gulraha	5%	72%	14%	9%
41	Mattupur Bhoji	Sondwa Duban	5%	70%	15%	10%
42	Mavaiya Kala	Mavaiya Kala	7%	71%	14%	8%
43	Multanipur	Multanipur	5%	72%	14%	9%
44	Nagapur	Tilauri	8%	72%	13%	7%
45	Nevada Kala	Nevada Kala	5%	70%	14%	11%
46	Paharpur	Paharpur	6%	69%	16%	9%
47	Pathraha	Kataka Bali	8%	69%	14%	9%
48	Pure Birbal	Multanipur	5%	70%	16%	9%
49	Pure Khusai	Pure Khusai	5%	73%	14%	8%
50	Pure Varishal	Trlokpur Visai	7%	70%	16%	7%
51	Rahima Kuli	Gahri	5%	75%	11%	9%
52	Rajapur Kala	Sangrapur Kila	8%	80%	6%	6%
53	Rajwadi	Rampur Pran	4%	72%	6%	18%
54	Rampur Dahani urf Rampur Khajur	Rampur Khajur	7%	66%	11%	16%
55	Rampur Pran	Rampur Pran	6%	69%	17%	8%
56	Rasulpur Gulraha	Rasulpur Gulraha	5%	73%	14%	8%
57	Sadhopur	Nevada Kala	4%	69%	17%	10%
58	Sagra Sundarpur	Sagra Sundarpur	7%	70%	14%	9%
59	Sakrauli	Sakrauli	5%	68%	16%	11%
60	Sandwa Sombansian	Sondwa Duban	5%	80%	5%	10%
61	Sangrapur Kila	Sangrapur Kila	6%	59%	11%	24%
62	Sarai Lachiman Dev	Tej Garh	5%	75%	11%	9%
63	Sarbajpur	Rampur Khajur	5%	80%	6%	9%
64	Shakuhabad	Tilauri	4%	65%	16%	15%
65	Shivrajpur	Shivrajpur	5%	72%	6%	17%
66	Sondwa Duban	Sondwa Duban	7%	70%	11%	12%
67	Tej Garh	Tej Garh	7%	70%	14%	9%
68	Teliyahi	Teliyahi	7%	68%	16%	9%
69	Tetarpur	Rasulpur Gulraha	4%	65%	16%	15%
70	Tilauri	Tilauri	5%	70%	11%	14%
71	Trlokpur Visai	Trlokpur Visai	4%	80%	5%	11%
72	Yadavpur	Sakrauli	4%	72%	6%	18%
	Average		6%	70%	13%	11%

Note: Partially using LPG.

Source: PRA & Gram Panchayats.

3.18 Details of migration

People of the watershed migrate to the city and other areas for search of work mostly as unskilled/semi-skilled and skilled. On an average people migrate for 6 months or a year. Village wise migration of people for work is given in the following table:

Sr. No.	Name Of Villages	Name Of Gram Panchayat	Out migration	
			Number with months	for which work
1	2	3	4	5
1	Ajgra	Ajgra	58, 6 month	Labour, Mason
2	Badhani	Badhani	60, 6 month	Labour, Mason
3	Bahloolpur	Bahloolpur	22, 6 month	Labour, Mason
4	Bahuchara	Bahuchara	42, 6 month	Labour, Mason
5	Bankati	Hariherpur Kailha	12, 6 month	Labour, Mason
6	Bansupur	Bansupur	28, 6 month	Labour, Mason
7	Barista	Barista	12, 6 month	Labour, Mason
8	Basupur	Basupur	22, 6 month	Labour, Mason
9	Bhuwalpur	Bhuwalpur	44, 6 month	Labour, Mason
10	Biliamgarh	Paharpur	35, 6 month	Labour, Mason
11	Bojhwa	Bojhwa	60, 6 month	Labour, Mason
12	Chaemar Saraiya	Chaemar Saraiya	17, 6 month	Labour, Mason
13	Chitari	Tina	18, 6 month	Labour, Mason
14	Dadu Puran Singh	Dadu Puran Singh	17, 6 month	Labour, Mason
15	Dandupur Padan	Bahloolpur	11, 6 month	Labour, Mason
16	Dekahi	Dekahi	15, 6 month	Labour, Mason
17	Deoli	Deoli	10, 6 month	Labour, Mason
18	Gadwara	Gadwara	23, 6 month	Labour, Mason
19	Gahri	Gahri	10, 6 month	Labour, Mason
20	Gaura Dand	Gaura Dand	18, 6 month	Labour, Mason
21	Gazi Mahubavan	Gazi Mahubavan	18, 6 month	Labour, Mason
22	Gharaura	Gharaura	60, 7 month	Labour, Mason
23	Hadirahi	Gahri	23, 6 month	Labour, Mason
24	Handaur	Handaur	33, 6 month	Labour, Mason
25	Hariherpur Kailha	Hariherpur Kailha	17, 6 month	Labour, Mason
26	Itauri	Sagra Sundarpur	14, 6 month	Labour, Mason
27	Jogapur	Ajgra	23, 6 month	Labour, Mason
28	Kansapur	Basupur	28, 6 month	Labour, Mason
29	Kataka Bali	Kataka Bali	32, 6 month	Labour, Mason
30	Katata	Rampur Pran	30, 6 month	Labour, Mason
31	Kharagpur	Kharagpur	50, 6 month	Labour, Mason
32	Kodra Madupur	Kodra Madupur	89, 7 month	Labour, Mason
33	Kodra Mangolpur	Kodra Mangolpur	39, 6 month	Labour, Mason
34	Koiliya	Mavaiya Kala	48, 6 month	Labour, Mason
35	Kotya Newada	Kotya Newada	25, 6 month	Labour, Mason
36	Lilapur	Lilapur	28, 6 month	Labour, Mason
37	Madupur	Badhani	44, 6 month	Labour, Mason
38	Maheshpur	Bojhwa	12, 6 month	Labour, Mason
39	Makaipur	Makaipur	22, 6 month	Labour, Mason
40	Maniyarpur	Rasulpur Gulraha	60, 6 month	Labour, Mason
41	Mattupur Bhoji	Sondwa Duban	17, 6 month	Labour, Mason
42	Mavaiya Kala	Mavaiya Kala	18, 6 month	Labour, Mason
43	Multanipur	Multanipur	17, 6 month	Labour, Mason
44	Nagapur	Tilauri	11, 6 month	Labour, Mason

Sr. No.	Name Of Villages	Name Of Gram Panchayat	Out migration	
			Number with months	for which work
1	2	3	4	5
45	Nevada Kala	Nevada Kala	15, 6 month	Labour, Mason
46	Paharpur	Paharpur	10, 6 month	Labour, Mason
47	Pathraha	Kataka Bali	11, 6 month	Labour, Mason
48	Pure Birbal	Multanipur	14, 6 month	Labour, Mason
49	Pure Khusai	Pure Khusai	23, 6 month	Labour, Mason
50	Pure Varishal	Trlokpur Visai	35, 6 month	Labour, Mason
51	Rahima Kuli	Gahri	18, 6 month	Labour, Mason
52	Rajapur Kala	Sangrampur Kila	18, 6 month	Labour, Mason
53	Rajwadi	Rampur Pran	25, 6 month	Labour, Mason
54	Rampur Dahani urf Rampur Khajur	Rampur Khajur	92, 6 month	Labour, Mason
55	Rampur Pran	Rampur Pran	18, 6 month	Labour, Mason
56	Rasulpur Gulraha	Rasulpur Gulraha	22, 6 month	Labour, Mason
57	Sadhapur	Nevada Kala	35, 6 month	Labour, Mason
58	Sagra Sundarpur	Sagra Sundarpur	36, 6 month	Labour, Mason
59	Sakrauli	Sakrauli	38, 6 month	Labour, Mason
60	Sandwa Sombansian	Sondwa Duban	51, 6 month	Labour, Mason
61	Sangrampur Kila	Sangrampur Kila	28, 6 month	Labour, Mason
62	Sarai Lachiman Dev	Tej Garh	27, 6 month	Labour, Mason
63	Sarbajpur	Rampur Khajur	15, 6 month	Labour, Mason
64	Shakuhabad	Tilauri	45, 6 month	Labour, Mason
65	Shivrajpur	Shivrajpur	12, 6 month	Labour, Mason
66	Sondwa Duban	Sondwa Duban	40, 6 month	Labour, Mason
67	Tej Garh	Tej Garh	27, 6 month	Labour, Mason
68	Teliyahi	Teliyahi	28, 6 month	Labour, Mason
69	Tetarpur	Rasulpur Gulraha	25, 6 month	Labour, Mason
70	Tilauri	Tilauri	92, 6 month	Labour, Mason
71	Trlokpur Visai	Trlokpur Visai	18, 6 month	Labour, Mason
72	Yadavpur	Sakrauli	36, 6 month	Labour, Mason

3.19 PRA (Participatory Rural Appraisal)

Participatory rural appraisal (PRA) is an approach used by people to gather information on various aspects from the community in an organized manner without the use of any structured questionnaire. The approach aims to incorporate the knowledge and opinions of rural people in the planning and management of development of projects and programmes.

3.20 List of agencies/projects/schemes presently working in the watershed

The information is given in following table. There are about 5 agencies undertaking welfare activity in watershed.

Agencies/projects/schemes presently working in the watershed			
Sl. No.	Name of the agencies/projects/schemes	Sponsoring Agency	Main activity
1	MGNREGA	MORD	Rojgar Scheme
2	ATMA(agriculture)	MOA(agriculture)	Crop Production, Tool Implement Distribution
3	Horticulture Mission	MOA(agriculture)	Floriculture ,Vegetable and

			Plantation
4	SGSY /NRLM	MoRD	Self Employment

3.21 People institution

3.21.1 Details of list of SHGs formed

The village wise details of SHG formed in the watershed are not available.

3.22 List of UGs formed

The village wise details of UG formed in the watershed are not available.

3.23 List of members of the Watershed Committee (WC)

The details of member of watershed committee are given below.

Micro-watershed	Name of the member	Micro-watershed	Name of the member
Nevada Kalan 2B2F6e1a	Sri. Rajesh Kumar Singh	Khargapur 2B2F6e1b	Sri. Sanjeev Kumar Mishra
	Sri. Vivek Kumar Singh		Sri. Ramkant Mishra
	Sri. Dinesh Kumar Vishvakarma		Sri. Sunil Mishra
	Sri. Jamuna Prasad		Smt. Pratibha
	Smt. Geeta Devi		Sri. Shyam Lal
	Smt. Shanti Devi		Mohd. Kaleem-ud-din
	Sri. Chandrakesh Singh		Sri. Radhey Shyam Maurya
	Sri. Ram Prakash		Sri. Surendra Verma
	Sri. Dinesh Kumar Vishvakarma		Sri. Vijaya Shankar Mishra
	Sri. Jaswanth		Sri. Gyanendra Kumar
Dandurpuran Singh 2B2F6e1a	Sri. Sanjay Singh	Katayya Nevada 2B2F6e1b	Smt. Seeta Singh
	Smt. Vidya Mishra		Sri. Rajesh Kumar Singh
	Sri. KAonlapati Tripathi		Sri. Amit Singh
	Sri. Kashi Prasad		Sri. Ram Dulare Verma
	Smt. Pyari		Smt. Chatkeela Devi
	Sri. Shravan Kumar Sharma		Sri. Ram Laut
	Sri. Shashi Bhushan Pandey		Smt. Bimla Devi
	Sri. Devi Prasad Singh		Sri. Dhananjaya Singh
	Sri. Mahadev Dhuriya		Sri. Hanuman Prasad
	Sri. Ram Sajeevan Pandey		Sri. Rajesh Kumar Singh
Sri. Vijaya Nath Pandey	-		
Katkavli 2B2F6e1a	Sri. Krishna Kumar Pandey	Deoli 2B2F6e1b	Smt. Chaukh Dayin
	Sri. Amit Kumar Mishra		Sri. Krishna Chandra Pandey
	Smt. Shanti Devi		Sri. Ram Dulare
	Sri. Chotte Laal		Smt. Kalavati
	Sri. Sitaram		Sri. Ram Baran Verma
	Sri. Prem Shankar		Sri. Ram Charan
	Sri. Kapil Dev		Sri. Shyam Sundar Shukla
	Sri. Bhagwat Prasad		Sri. Shambhu Nath Yadav
	Sri. Naanbhai		Smt. Murtuza
	Smt. Rani		Sri. Jai Singh

Micro-watershed	Name of the member	Micro-watershed	Name of the member
Tejiyahi 2B2F6e1a	Sri. Maniram Verma	Sandwa Somvanshiyan 2B2F6e1b	Sri. Ram Chandra
	Sri. Abhay Pratap Verma		Sri. Gaya Parasad
	Sri. Ram Niwas Singh		Smt. Rekha Devi
	Sri. Tulsi Ram		Sri. Jai Prakash
	Smt. KAonla Devi		Smt. Malti Devi
	Sri. Rakesh Kumar		Sri. Umesh Chandra
	Sri. Kallu		Sri. Ram Kumar Verma
	Mohd. Israar		Sri. Ram Kishore Verma
	Sri. Ram Asrey		Sri. Rakesh Kumar Verma
	Sri. Ram Nayan		Sri. Rakesh Singh
	Sri. Sanjay		Sri. Bhawar Bahadur Singh
Chaimar Saraiyya 2B2F6e1b	Smt. Nirmala Devi	Sagra Sundarpur 2B2F6e1b	Sri. Ashish Kumar Shukla
	Sri. Shiv Ratan Gupta		Sri. Ramdhan
	Sri. Ram Nivas Singh		Smt. Sethain
	Sri. Raju		Sri. Surya Pal
	Smt. Uttarheen		Smt. Nisha Devi
	Sri. Pankaj Mishra		Sri. Shiv Balak
	Smt. Khiyatul Nisha		Smt. Purabhin
	Sri. Anil Kumar		Sri. Jaiman-ud-din
	Sri. Amar Pal		Smt. Rangeela
	Sri. Chedi Laal		Sri. Ramdev
	Sri. Ram Pratap		Sri. Bhanwar Singh

3.24 Gram Panchayat wise area under different crops

Sl. No	Name of Gram panchayat	Total area	Paddy	Maiz (Kharif)	Sorghum	Jwar	Pulses	Kharif Total	Wheat	Barley	Gram	Pea	Arhar	Rabi Total	Sesame	Sugarcane	Potato	Other Zaid	Total sown area	Net Sown area
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Ajgra	130.88	27.4	0.2	3.1	1.0	1.5	33.1	40.9	0.3	0.9	1.0	2.0	45.2	0.8	0.3	1.5	3.7	84.5	61.3
2	Badhani	280.67	69.9	0.5	7.8	2.5	3.9	84.4	104.4	0.9	2.4	2.6	5.0	115.3	2.0	0.7	3.7	9.3	215.5	156.4
3	Bahloolpur	290.49	59.3	0.4	6.6	2.1	3.3	71.6	88.6	0.7	2.0	2.2	4.3	97.8	1.7	0.6	3.1	7.9	182.8	132.7
4	Bahuchara	368.31	60.0	0.4	6.7	2.1	3.3	72.5	89.7	0.8	2.1	2.3	4.3	99.1	1.8	0.6	3.2	8.0	185.1	134.4
5	Bansupur	133.30	41.2	0.3	4.6	1.5	2.3	49.8	61.6	0.5	1.4	1.6	3.0	68.0	1.2	0.4	2.2	5.5	127.1	92.3
6	Barista	131.64	25.1	0.2	2.8	0.9	1.4	30.3	37.5	0.3	0.9	1.0	1.8	41.4	0.7	0.2	1.3	3.4	77.4	56.2
7	Basupur	183.80	43.6	0.3	4.9	1.5	2.4	52.7	65.1	0.5	1.5	1.6	3.1	71.9	1.3	0.4	2.3	5.8	134.4	97.6
8	Bhuwalpur	223.42	33.7	0.2	3.8	1.2	1.9	40.8	50.4	0.4	1.2	1.3	2.4	55.7	1.0	0.3	1.8	4.5	104.1	75.6
9	Bojhwa	170.15	45.6	0.3	5.1	1.6	2.5	55.1	68.2	0.6	1.6	1.7	3.3	75.3	1.3	0.4	2.4	6.1	140.7	102.2
10	Chaemar Saraiya	288.86	69.8	0.5	7.8	2.5	3.9	84.3	104.3	0.9	2.4	2.6	5.0	115.2	2.0	0.7	3.7	9.3	215.2	156.2
11	Dadu Puran Singh	291.32	58.3	0.4	6.5	2.1	3.2	70.5	87.2	0.7	2.0	2.2	4.2	96.3	1.7	0.6	3.1	7.8	179.9	130.6
12	Dekahi	24.45	7.8	0.1	0.9	0.3	0.4	9.5	11.7	0.1	0.3	0.3	0.6	12.9	0.2	0.1	0.4	1.1	24.2	17.6
13	Deoli	553.79	111.3	0.8	12.4	3.9	6.2	134.5	166.4	1.4	3.8	4.2	8.0	183.8	3.2	1.1	5.9	14.8	343.4	249.3
14	Gadwara	65.03	17.8	0.1	2.0	0.6	1.0	21.5	26.5	0.2	0.6	0.7	1.3	29.3	0.5	0.2	0.9	2.4	54.8	39.8
15	Gahri	240.22	67.3	0.5	7.5	2.4	3.7	81.4	100.6	0.8	2.3	2.5	4.8	111.1	2.0	0.7	3.6	9.0	207.7	150.7
16	Gaura Dand	0.11	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.2
17	Gazi Mahubavan	290.96	39.2	0.3	4.4	1.4	2.2	47.3	58.5	0.5	1.4	1.5	2.8	64.7	1.1	0.4	2.1	5.2	120.8	87.7
18	Gharaura	294.93	53.1	0.4	5.9	1.9	2.9	64.2	79.4	0.7	1.8	2.0	3.8	87.7	1.6	0.5	2.8	7.1	163.8	118.9
19	Handaur	66.31	21.2	0.2	2.4	0.8	1.2	25.7	31.7	0.3	0.7	0.8	1.5	35.0	0.6	0.2	1.1	2.8	65.5	47.5
20	Hariherpur Kailha	147.36	32.0	0.2	3.6	1.1	1.8	38.7	47.8	0.4	1.1	1.2	2.3	52.9	0.9	0.3	1.7	4.3	98.7	71.7
21	Kataka Bali	433.08	83.7	0.6	9.3	3.0	4.6	101.1	125.1	1.0	2.9	3.2	6.0	138.1	2.4	0.8	4.4	11.2	258.1	187.4
22	Kharagpur	231.09	51.9	0.4	5.8	1.8	2.9	62.8	77.6	0.7	1.8	2.0	3.7	85.7	1.5	0.5	2.7	6.9	160.2	116.3
23	Kodra Madupur	237.55	52.8	0.4	5.9	1.9	2.9	63.8	78.9	0.7	1.8	2.0	3.8	87.1	1.5	0.5	2.8	7.0	162.8	118.2
24	Kodra Mangolpur	9.15	2.6	0.0	0.3	0.1	0.2	3.1	3.8	0.0	0.1	0.1	0.2	4.2	0.1	0.0	0.1	0.3	7.9	5.8
25	Kotya Newada	303.26	67.9	0.5	7.6	2.4	3.8	82.1	101.5	0.8	2.3	2.6	4.9	112.1	2.0	0.7	3.6	9.1	209.5	152.1
26	Lilapur	42.14	8.9	0.1	1.0	0.3	0.5	10.7	13.2	0.1	0.3	0.3	0.6	14.6	0.3	0.1	0.5	1.2	27.3	19.9
27	Makaipur	267.50	45.3	0.3	5.0	1.6	2.5	54.7	67.7	0.6	1.6	1.7	3.3	74.8	1.3	0.4	2.4	6.0	139.7	101.4
28	Mavaiya Kala	154.42	42.7	0.3	4.8	1.5	2.4	51.6	63.9	0.5	1.5	1.6	3.1	70.5	1.2	0.4	2.3	5.7	131.8	95.7
29	Multanipur	169.09	41.2	0.3	4.6	1.5	2.3	49.8	61.6	0.5	1.4	1.6	3.0	68.1	1.2	0.4	2.2	5.5	127.2	92.3

Sl. No.	Name of Gram panchayat	Total area	Paddy	Maiz (Kharif)	Sorghum	Jwar	Pulses	Kharif Total	Wheat	Barley	Gram	Pea	Arhar	Rabi Total	Sesame	Sugarcane	Potato	Other Zaid	Total sown area	Net Sown area
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
30	Nevada Kala	390.40	97.1	0.7	10.8	3.4	5.4	117.4	145.1	1.2	3.3	3.7	7.0	160.3	2.8	0.9	5.1	13.0	299.5	217.4
31	Paharpur	59.33	9.1	0.1	1.0	0.3	0.5	11.1	13.7	0.1	0.3	0.4	0.7	15.1	0.3	0.1	0.5	1.2	28.3	20.5
32	Pure Khusai	0.21	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.3	0.2
33	Rampur Khajur	40.16	8.0	0.1	0.9	0.3	0.5	9.7	12.0	0.1	0.3	0.3	0.6	13.3	0.2	0.1	0.4	1.1	24.8	18.0
34	Rampur Pran	121.67	33.8	0.2	3.8	1.2	1.9	40.8	50.5	0.4	1.2	1.3	2.4	55.8	1.0	0.3	1.8	4.5	104.2	75.7
35	Rasulpur Gulraha	23.69	4.8	0.0	0.5	0.2	0.3	5.8	7.2	0.1	0.2	0.2	0.4	7.9	0.1	0.1	0.3	0.6	14.9	10.8
36	Sagra Sundarpur	190.09	45.5	0.3	5.1	1.6	2.5	55.0	68.1	0.6	1.6	1.7	3.3	75.2	1.3	0.4	2.4	6.1	140.5	102.0
37	Sakrauli	333.60	68.9	0.5	7.7	2.4	3.8	83.3	103.0	0.9	2.4	2.6	5.0	113.8	2.0	0.7	3.6	9.2	212.6	154.3
38	Sangrampur Kila	293.72	73.1	0.5	8.1	2.6	4.0	88.4	109.3	0.9	2.5	2.8	5.3	120.7	2.1	0.7	3.9	9.8	225.5	163.7
39	Shivrajpur	115.93	27.6	0.2	3.1	1.0	1.5	33.4	41.2	0.4	1.0	1.0	2.0	45.6	0.8	0.3	1.5	3.7	85.1	61.8
40	Sondwa Duban	469.47	82.5	0.6	9.2	2.9	4.6	99.7	123.3	1.0	2.8	3.1	5.9	136.2	2.4	0.8	4.4	11.0	254.4	184.7
41	Tej Garh	37.03	5.5	0.0	0.6	0.2	0.3	6.7	8.3	0.1	0.2	0.2	0.4	9.1	0.2	0.1	0.3	0.7	17.1	12.4
42	Teliyahi	342.46	61.2	0.4	6.8	2.2	3.4	74.0	91.4	0.8	2.1	2.3	4.4	101.0	1.8	0.6	3.2	8.2	188.7	137.0
43	Tilauri	275.98	42.8	0.3	4.8	1.5	2.4	51.7	63.9	0.5	1.5	1.6	3.1	70.6	1.3	0.4	2.3	5.7	132.0	95.8
44	Tina	3.73	1.2	0.0	0.1	0.1	0.1	1.5	1.8	0.0	0.1	0.1	0.1	2.0	0.0	0.0	0.1	0.2	3.8	2.8
45	Trlokpur Visai	213.78	43.1	0.3	4.8	1.5	2.4	52.2	64.5	0.5	1.5	1.6	3.1	71.2	1.3	0.4	2.3	5.8	133.1	96.6
	Total	8934.54	1884.76	13.00	209.84	66.54	104.33	2278.47	2816.84	23.49	64.77	71.17	135.72	3111.99	54.90	18.23	99.67	251.40	5814.66	4221.20
			32.4%	0.2%	3.6%	1.1%	1.8%	39.2%	48.4%	0.4%	1.1%	1.2%	2.3%	53.5%	0.9%	0.3%	1.7%	4.3%		

Cropping intensity

137.75%

3.25 Existing Engineering Works: The data of existing engineering works is not available.

3.26 Details of Common Property Resources (CPR)

Details of common property are provided below. There is most used for fuel wood and fodder. There is no management followed in these areas.

Sr. No.	Name of Village	Name of Gram Panchayat	Type of CPR	Area (ha)	Under the possession of	fodder/fuelwood
1	Rajapur Kala	Sangrampur Kila	Vegetative Cover /Ponds ✓ / Pasture ✓	7.4	G.P.	Irrigation and domestic water & Fodder
2	Sangrampur Kila	Sangrampur Kila	Vegetative Cover /Ponds ✓ / Pasture ✓	4.45	G.P.	Irrigation and domestic water & Fodder
3	Madupur	Badhani	Vegetative Cover /Ponds ✓ / Pasture	1.02	G.P.	Domestic water
4	Sakrauli	Sakrauli	Vegetative Cover /Ponds ✓ / Pasture	0.57	G.P.	Domestic water
5	Bahloolpur	Bahloolpur	Vegetative Cover /Ponds ✓ / Pasture	0.69	G.P.	Domestic water
6	Chaemar Saraiya	Chaemar Saraiya	Vegetative Cover /Ponds ✓ / Pasture	1.23	G.P.	Irrigation and Domestic water
7	Dandupur Padan	Bahloolpur	Vegetative Cover /Ponds ✓ / Pasture	0.45	G.P.	Domestic water
8	Hariherpur Kailha	Hariherpur Kailha	Vegetative Cover /Ponds ✓ / Pasture	1.2	G.P.	Domestic water
9	Bahuchara	Bahuchara	Vegetative Cover /Ponds ✓ / Pasture	1.18	G.P.	Domestic water
10	Dekahi	Dekahi	Vegetative Cover /Ponds ✓ / Pasture	0.02	G.P.	Domestic water
11	Kotya Newada	Kotya Newada	Vegetative Cover /Ponds ✓ / Pasture	2.75	G.P.	Irrigation and Domestic water
12	Sangrampur Kila	Sangrampur Kila	Vegetative Cover /Ponds ✓ / Pasture	0.03	G.P.	Domestic water
13	Bahloolpur	Bahloolpur	Vegetative Cover /Ponds ✓ / Pasture	0.16	G.P.	Domestic water
14	Barista	Barista	Vegetative Cover /Ponds ✓ / Pasture	0.52	G.P.	Domestic water
15	Multanipur	Multanipur	Vegetative Cover /Ponds ✓ / Pasture	0.27	G.P.	Domestic water
16	Gahri	Gahri	Vegetative Cover /Ponds ✓ / Pasture	0.35	G.P.	Domestic water
17	Handaur	Handaur	Vegetative Cover /Ponds ✓ / Pasture	0.9	G.P.	Domestic water
18	Kodra Mangolpur	Kodra Mangolpur	Vegetative Cover /Ponds ✓ / Pasture	0.14	G.P.	Domestic water
19	Sagra Sundarpur	Sagra Sundarpur	Vegetative Cover /Ponds ✓ / Pasture ✓	4.23	G.P.	Irrigation and domestic water & Fodder
	Total (ha)			28		

3.27 Existing package of practices of crops

Existing package of practices of crops is given in the following table.

Crop	Variety	Seed rate (Kg/ha)	Line sowing/ broadcasting	NPK Rate (Kg/ha)	FYM (Kg/ha)	Plant protection		Yield (Kg/ha)	
						Chemical	Biological	Grain	By product
Paddy	Sarju-52, Saket, Shakkar cheeni, Lalmati	50	Transplantation	100:30:0	Nil	√	Nil	1794	1900
Maize	Tarun	35	broadcasting	80:30:0	Nil	Nil	Nil	1293	3200
Bajara	Varsa	5	broadcasting	40:20:0	Nil	Nil	Nil	946	2000
Black gram	Pantu-30, T-9	20	broadcasting	20:20:0	Nil	Nil	Nil	860	3500
Green gram	PDM-54, PDM-11	20	broadcasting	20:20:0	Nil	Nil	Nil	760	3200
Pigeon pea	Local	20	broadcasting	20:20:0	Nil	Nil	Nil	1100	3900
Wheat	PBW-343, Lok-1, Malvia-234	150	broadcasting	100:30:0	Nil	Nil	Nil	2049	2600
Lintel	T-36	20	broadcasting	15:20:0	Nil	Nil	Nil	847	2200
Mustard	Kranti, Vardan	5	broadcasting	40:20:0	Nil	√	Nil	673	1000
Pea	Arkle, P-3	75	broadcasting	30:20:0	Nil	√	Nil	995	3900
Potato	Chipsona, Kufari Bahar, Kufari Badshah	2500	Line sowing	100:40:0	5000 Kg	√	Nil	11600	Nil
Onion	Local	5	Line sowing	100:40:0	Nil	√	Nil	5000	Nil
Zaid Vegetables	Improved/hybrid	varying	Dibbling	120:80:80	2000 kg	√	Nil	2500*	Nil

* Average for Tomato, Bottle Gourd, Bittle Gourd etc.

3.28 Existing crop rotation

Village	Existing crop rotation
Bahuchara, Gadwara, Katata, Koiliya, Mavaiyya Kalan, Nevada Kalan, Rajapur Kalan, Rajwadi, Rampur Pran, Sadhopur, Sangrampur Kila, Shivrajpur	1.Rice-Wheat 2.Urd/Moong/Maize/Bajra/ Sorghum 3.Toria/ Muatard 4.Urd/Moong/Maize/Bajra/ Sorghum -Wheat/ / Toria/ Mustard
Dandurpuran Singh, Devali, Gaura Daand, Makaipur, Mattupur Bhoji, Purebairisal, Sandwa Somvanshiyan, Sarai Laxmandev, Tejgarh, Tetarpur, Trilokpur Bisai	
Ajgara, Badhani, Bhawalpur, Dekrahi, Jogapur, Katkavli, Mandupur, Puresukhai, Sakrauli, Sakrauli, Yadavpur	
Ajgara, Bahuchara, Dhekahi, Gajimahuvan, Jogapur, Katkavli, Kataiyya Nevada, Mandupur, Pathraha, Sakrauli, Toliyahi, Yadavpur	
Ajgara, Behlolpur, Chaimar Saraiyya, Dandurpur Padan, Gajimahuvan, Dharaura, Khargapur, Kataiyya Nevada, Maheshpur, Sakrauli, Teliyahi	
Ajgara, Behlolpur, Bankati, Dandurpur Padan, Dharaura, Khargapur, Leelapur, Rampur Khajoor, Sarbajpur	
Bahuchara, Bansupur, Barista, Dhekahi, Kodramandupur, Kataiyya Nevada, Maheshpur, Mavaiyya Kalan, Nevada Kalan, Sadhopur, Sangrampur Kila, Tejgarh	
Behlolpur, Bansupur, Barista, Bojhwa, Chaimar Sariyya, Devali, Kataiyya Nevada, Kansapur, Multanipur	
Behlolpur, Daandupuran Singh, Devali, Mattupur Bojhi, Multanipur, Purebirbal, Sandwa Somvanshiyan, Sandwa Dubaan, Trilokpur Bisai, Purebairisal	
Vasupur, Williangarh, Chitari, Gehri, Hadirahi, Handaur, Itauri, Kansapur, Kodra Mangolpur, Makai, Maniyar, Mattupur Bojhi, Nagpur, Pahadpur, Purbirbal, Rahimakuli, Rasoolpur Gulraha, Sagra Sundarpur, Sandwa Somvanshiyan, Sakuhabad, Sandwa Dubaan, Tetarpur, Tilauri	

3.29 Existing package of practices of orchard

Package of practices of existing orchard is provided in following table.

Crop	Species	Plants per ha	Spacing (m*m)	NPK (gm./plant)	FYM (Kg/plant)	Plant protection		Yield	
						Chemical	Biological	(Kg/plant)	(Kg/ha)
Mango	Dusehari, Chausa, Safeda, Langra, Husanara, Malika, Amarpali, Malda, Jauhari	100	10*10	500-600(N), 200-250(P), 200-250 (K)	10-20	Spray gramaxone @6 ml/l, Spray glyphoset@ 10 ml/l	Weeding and hoeing	50	5000
Guava	Sardar, Lalit, Allahabad Safeda, Red Fleshed, Seedless,	196	7*7	400-500(N), 150-200(P), 100-200(K)	10-20	Spray gramaxone @6 ml/l, Spray glyphoset@ 10 ml/l	Weeding and hoeing	40	7840
Lemon	Kalmi, Deshi	-	-	-	-	-	-	-	-
Aonla	NA-7, NA-6, Kanchan	-	-	-	-	-	-	-	-
Ber	Umran, seb	-	-	-	-	-	-	-	-
Bael	Local variety	-	-	-	-	-	-	-	-

3.30 Livestock population

Sr. No	Name of Gram Panchayat	Cow	Buffalo	Bullock	Goat	Pig	Poultry
1	Ajgra	52	55	4	110	5	97
2	Badhani	49	61	2	115	2	43
3	Bahloolpur	40	181	5	62	6	127
4	Bahuchara	50	661	18	28	22	58
5	Bansupur	72	219	6	58	7	155
6	Barista	17	22	1	66	1	16
7	Basupur	44	55	1	56	2	39
8	Bhuwalpur	85	106	3	50	4	75
9	Bojhwa	73	91	2	90	3	65
10	Chaemar Saraiya	139	173	5	100	6	123
11	Dadu Puran Singh	15	11	10	52	8	11
12	Dekahi	87	109	3	328	4	77
13	Deoli	293	62	10	58	12	56
14	Gadwara	102	129	3	65	95	91
15	Gahri	81	101	3	75	3	82
16	Gaura Dand	75	95	2	91	3	67
17	Gazi Mahubavan	67	83	2	82	3	59
18	Gharaura	70	88	2	70	3	62
19	Handaur	6	6	0	21	0	5
20	Hariherpur Kailha	7	9	0	28	0	6
21	Kataka Bali	18	227	6	60	8	160
22	Kharagpur	17	212	6	52	7	55
23	Kodra Madupur	3	3	0	12	0	3
24	Kodra Mangolpur	30	37	1	112	1	26
25	Kotya Newada	93	116	3	54	4	82
26	Lilapur	84	59	3	50	4	74
27	Makaipur	50	60	8	814	9	192
28	Mavaiya Kala	58	62	2	70	2	51
29	Multanipur	48	54	4	112	4	88
30	Nevada Kala	42	48	3	120	4	84
31	Paharpur	43	42	1	55	1	30
32	Pure Khusai	55	44	1	110	1	31
33	Rampur Khajur	15	356	9	52	12	50
34	Rampur Pran	16	30	5	115	6	100
35	Rasulpur Gulraha	20	45	8	100	8	111
36	Sagra Sundarpur	58	72	6	58	2	51
37	Sakrauli	48	52	4	55	4	88
38	Sangrampur Kila	42	118	1	116	10	84
39	Shivrajpur	56	42	8	128	1	30
40	Sondwa Duban	64	71	2	112	5	65
41	Tej Garh	42	85	5	59	7	80
42	Teliyahi	58	52	7	64	4	54
43	Tilauri	15	65	6	75	2	62
44	Tina	28	70	2	110	1	51
45	Trlokpur Visai	30	59	3	98	1	100
	Total	2457	4398	186	4368	297	3116

3.31 Average productivity of field crop /animal

Crop	Present Yield (Kg/ha)	
	Grain	By product
Paddy	1794	1900
Maize	1293	3200
Bajra	946	2000
Black gram	860	3500
Green gram	760	3200
Pigeon pea	1100	3900
Wheat	2049	2600
Lentil	847	2200
Mustard	673	1000
Pea	995	3900
Potato	11600	Nil
Onion	5000	Nil
Tomato	2860	Nil
Bottle gourd	2750	Nil
Bittle gourd	1550	Nil
Fodder	-	60000

Source: C-DAP, Agirculture development plan, Prapatgarh

3.32 Animal productivity

Animal productivity is given in the following table.

Animal	Breed	Average weight (kg)	Milk yield (Liter/day)	Meat (kg/animal)	Eggs per year	Stall feeding/Open grazing	Source of fresh fodder
Buffalo	Murrah, Jafarabadi	300-350	5.00 – 7.00	-	-	3.5 kg dry fodder, 8kg Barseem, 4.6kg saeleg, 1.5kg jowar grain, 2kg khali	Farmer Field
Cow	Sahiwal, Jursey	200-250	4.00 – 6.00	-	-	2.5 kg dry fodder, 6 kg Barseem, 3.5 kg saeleg, 1 kg jowar, 1 kg khali, 0.05 kg bonemeal, 0.05 kg salt	Farmer Field
Bullock	-	250-350	-	-	-	3.5 kg fodder, 8kg Barseem, 4.6kg saeleg, 1.5kg jowar, 2kg khali, 5kg bone, 5kg salt	Farmer Field
Goat	Barbari, Jamunapari	10-15	1.00 – 1.50	7 – 10	-	0.5 kg whole grain, 3 kg green fodder	Farmer Field -
Pig	-	30-35	-	25 – 30	-	-	Farmer Field -
Poultry	-	2-3		2 – 3	250	-	Farmer Field -

3.33 Existing Avenue trees in the gram panchayat

The existing trees under various gram panchayat (per 0.5 rkm) are provided in following table.

Sl. No.	Name of Gram Panchayat	Along with River Side	Along with Perennial Stream	Along with Seasonal Stream	Along with Canal	Along Road Side	Total
1	Ajgra	1	2	3	4	15	25
2	Badhani	2	2	3	10	10	27
3	Bahloolpur	4	4	5	12	12	37
4	Bahuchara	5	1	4	11	11	32
5	Bansupur	0	5	3	6	10	24
6	Barista	6	2	2	5	8	23
7	Basupur	0	0	2	8	28	38
8	Bhuwalpur	5	2	0	0	15	22
9	Bojhwa	0	0	8	10	18	36
10	Chaemar Saraiya	6	4	6	4	21	41
11	Dadu Puran Singh	0	0	8	6	7	21
12	Dekahi	4	2	2	0	25	33
13	Deoli	0	0	0	10	10	20
14	Gadwara	2	6	5	5	24	42
15	Gahri	0	0	0	0	46	46
16	Gaura Dand	0	0	0	0	23	23
17	Gazi Mahubavan	6	5	4	8	12	35
18	Gharaura	0	0	0	0	25	25
19	Handaur	0	0	6	6	21	33
20	Hariherpur Kailha	4	4	4	4	10	26
21	Kataka Bali	0	0	8	7	16	31
22	Kharagpur	0	0	0	5	26	31
23	Kodra Madupur	3	2	2	6	10	23
24	Kodra Mangolpur	4	1	2	10	12	29
25	Kotya Newada	3	1	4	6	11	25
26	Lilapur	4	0	2	8	6	20
27	Makaipur	2	2	3	10	8	25
28	Mavaiya Kala	5	2	0	5	6	18
29	Multanipur	2	2	0	3	4	11
30	Nevada Kala	2	1	0	2	5	10
31	Paharpur	2	2	1	3	5	13
32	Pure Khusai	2	5	3	5	10	25
33	Rampur Khajur	4	1	6	5	10	26
34	Rampur Pran	4	0	4	15	35	58
35	Rasulpur Gulraha	0	2	0	4	8	14
36	Sagra Sundarpur	2	0	6	4	10	22
37	Sakrauli	0	0	0	0	15	15
38	Sangrampur Kila	0	0	3	4	17	24
39	Shivrajpur	6	4	0	5	36	51
40	Sondwa Duban	0	5	4	4	8	21
41	Tej Garh	6	3	4	4	4	21
42	Teliyahi	4	0	2	6	5	17
43	Tilauri	4	0	2	4	6	16
44	Tina	0	3	0	6	7	16
45	Trlokpur Visai	3	3	1	7	9	23
Total		107	78	122	247	640	1194

3.34 Status of existing farm machinery and equipments

Sl. No.	Name of Gram Panchayat	Number of Farm machinery/equipments							
		Tractor	Plough	Harrow	Cultivator	Leveler	Sprayer	Seed drill	Thrasher
1	Ajgra	20	5	6	20	3	13		9
2	Badhani	9	3	3	9	1	6		4
3	Bahloolpur	23	6	7	23	3	16		10
4	Bahuchara	5	11	2	5	1	45		2
5	Bansupur	4	1	1	4	1	2		2
6	Barista	2	6	1	2	0	13		1
7	Basupur	6	7	2	6	1	14		3
8	Bhuwalpur	9	7	3	9	1	12		4
9	Bojhwa	4	4	1	4	1	7		2
10	Chaemar Saraiya	8	6	2	8	1	9		4
11	Dadu Puran Singh	6	7	2	6	1	14		3
12	Dekahi	14	6	4	14	2	11		6
13	Deoli	23	9	7	23	3	28		10
14	Gadwara	28	10	8	28	4	32	1	13
15	Gahri	21	12	6	21	3	37	1	9
16	Gaura Dand	18	8	5	18	3	21		8
17	Gazi Mahubavan	11	7	4	15	4	10		6
18	Gharaura	10	8	2	16	3	12	1	7
19	Handaur	12	5	2	20	2	15		4
20	Hariherpur Kailha	9	5	2	11	2	14	2	5
21	Kataka Bali	10	3	1	10	1	13		5
22	Kharagpur	7	2	1	8	2	7		3
23	Kodra Madupur	8	4	2	8	1	6		4
24	Kodra Mangolpur	6	4	3	7	0	5		3
25	Kotya Newada	25	8	8	25	4	21	1	11
26	Lilapur	20	10	6	20	3	27		9
27	Makaipur	4	4	1	4	1	6		2
28	Mavaiya Kala	5	5	0	3	2	5		4
29	Multanipur	21	12	6	21	3	37	1	9
30	Nevada Kala	18	8	5	18	3	21		8
31	Paharpur	20	5	6	20	3	13		9
32	Pure Khusai	10	7	5	18	3	24		8
33	Rampur Khajur	8	8	4	8	1	7		4
34	Rampur Pran	6	10	3	9	1	12		4
35	Rasulpur Gulraha	7	5	3	4	1	7		2
36	Sagra Sundarpur	9	4	2	8	1	9		4
37	Sakrauli	5	6	5	18	3	24	2	8
38	Sangrampur Kila	11	9	4	8	1	7		4
39	Shivrajpur	10	3	5	18	3	24		8
40	Sondwa Duban	8	2	2	8	1	7		4
41	Tej Garh	7	5	3	9	1	12		4
42	Teliyahi	10	5	1	4	1	7		2
43	Tilauri	8	5	2	8	1	9		4
44	Tina	18	9	5	18	3	24		8
45	Trlokpur Visai	8	4	2	8	1	7		4
Total		511	280	155	552	85	672	9	247

3.35 Bench marking of project area

The information on soil health, water resources, land and agriculture etc is given in the following table.

Benchmarking of the Project (existing)											
Sl. No.	Indicator/ Sub Indicator	Nevada Kalan	Dandurpuran Singh	Katkavli	Teliyahi	Chaimar Saraiyya	Khargapura	Kataiyya Nevada	Deoli	Sandwa Somvanshiyan	Sagra Sundarpur
		2B2F5k2a	2B2F5l2f	2B2F6b1b	2B2F6c1a	2B2F6c1b	2B2F6c1c	2B2F6d1a	2B2F6d1d	2B2F6d1e	2B2F6d2a
A	Soil health										
1	Soil organic carbon	0.13	0.12	0.11	0.1	0.13	0.12	0.11	0.1	0.13	0.1
2	Available N kg/ha	250	270	243	245	250	270	243	245	250	245
3	Available P kg/ha	4.6	4.3	4.5	5.2	4.6	4.3	4.5	5.2	4.6	5.2
4	Available K kg/ha	150	145	140	143	150	145	140	143	150	143
5	Soil Erosion (Silt Load G/1000ml runoff)	3.87	3.98	NA	2.9	3.87	3.98	NA	2.9	3.87	2.9
B	Runoff/water status										
1	Stream Flow at 0.8 d , cum / sec (current meter)	0.35	NA	NA	0.38	0.35	0.45	0.39	0.4	0.41	0.45
2	GW level (m) (pre-monsoon)	8-15m	8-15m	8-15m	8-15m	8-15m	15m	8-15m	8-15m	8-15m	8-15m
3	GWlevel (m) (post-monsoon)	8-15m	0-1 m	8-15m	8-15m	8-15m	8-15m	8-15m	8-15m	1-8m	8-15m
C	Water availability										
1	Drinking water availability	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient	Sufficient
2	Soil moisture content (g/cm3)	0.26	0.25	0.22	0.21	0.2	0.26	0.25	0.22	0.21	0.22
D	Vegetation										
1	Tree cover%	23	20	13	12	15	18	25	12	33	23
2	Survival of number of plant	50	45	48	45	40	40	40	45	48	45
3	% family cultivating Agro-forestry/Horticulture	20	18	18	15	15	14	14	18	18	18
4	Species richness(diversity)	Aonla, Mango, Guava	Aonla, Mango, Guava	Aonla, Mango, Guava	Aonla, Mango, Guava	Aonla, Mango, Guava	Aonla, Mango, Guava	Aonla, Mango, Guava	Aonla, Mango, Guava	Aonla, Mango, Guava	Aonla, Mango, Guava
E	Land and agriculture										
1	Fallow land (ha)	94.308	362.974	237.027	345.923	348.449	168.214	227.412	124.585	242.644	297.287
2	Crop Diversification index	0.75	0.7	0.6	0.56	0.65	0.5	0.62	0.67	0.76	0.7
3	Area coverage under HYV(%)	6	6	6	6	6	6	6	6	6	6
4	Irrigation (%)	79	80	82	74	89	77	74	89	77	80
5	Area covered under micro irrigation	0	0	0	0	0	0	0	0	0	0
6	Demonstration of new technology(ha)	1	0.5	0.75	1.5	0	0.5	1.5	0	0.5	0.5
7	Adoption of INM/IPM/IDM	0.5	0	0.5	1	0	0	1	0	0	0

Benchmarking of the Project (existing)											
Sl. No.	Indicator/ Sub Indicator	Nevada Kalan	Dandurpuran Singh	Katkavli	Teliyahi	Chaimar Saraiyya	Khargapura	Kataiyya Nevada	Deoli	Sandwa Somvanshiyan	Sagra Sundarpur
		2B2F5k2a	2B2F5l2f	2B2F6b1b	2B2F6c1a	2B2F6c1b	2B2F6c1c	2B2F6d1a	2B2F6d1d	2B2F6d1e	2B2F6d2a
F	Crop productivity (grain kg/ha)										
1	Paddy	1794	1794	1794	1794	1794	1794	1794	1794	1794	1794
2	Maize	1293	1293	1293	1293	1293	1293	1293	1293	1293	1293
3	Bajra	946	946	946	946	946	946	946	946	946	946
4	Black gram	860	860	860	860	860	860	860	860	860	860
5	Green gram	760	760	760	760	760	760	760	760	760	760
6	Pigeon pea	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
7	Wheat	2049	2049	2049	2049	2049	2049	2049	2049	2049	2049
8	Lentil	847	847	847	847	847	847	847	847	847	847
9	Mustard	673	673	673	673	673	673	673	673	673	673
10	Pea	995	995	995	995	995	995	995	995	995	995
11	Potato	1160	1160	1160	1160	1160	1160	1160	1160	1160	1160
12	Onion	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150
13	Tomato	2860	2860	2860	2860	2860	2860	2860	2860	2860	2860
14	Fodder	60000	60000	60000	60000	60000	60000	60000	60000	60000	60000
G	Animal productivity (liter/year/animal)										
15	buffalow milk /Lactation	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
16	Cow milk/ Lactation	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
17	Goat milk/ Lactation	150	150	150	150	150	150	150	150	150	150

Chapter 4: The problems and need of the area

4.1 Crop productivity/soil and land degradation, soil and water conservation problems

At present, the condition of the life of the people living in villages is gloomy. The population of watershed is ever rising. The abnormal rise in population has intensified the problem of unemployment in watershed. The problems of the villagers are many and varied. A lower productivity of main crops in most areas of the watershed, lack of diversification in agriculture from low value to high value crops, inadequate and inefficient infrastructure for development in rural areas and lesser employment generation in the other more remunerative sectors of the economy. So, the people of the watershed have chosen the alternate source of income, in production of Aonla made products. Recently, the benefits of Aonla, a versatile fruit, have been discovered which has medicinal properties and its export is helping Pratapgarh flourish in its economy. The District should become self-sufficient in their economy and the villagers would not run to the cities in search of jobs. This would ensure that the large-cities are not overcrowded with huge population. It would help maintain the balance between the job/vacancy and the job seekers.

There are several other factors, which require immediate consideration such as the consistent increases in the number and area of uneconomic and non-viable agricultural operational holdings, inadequate and inefficient irrigation network, inadequate development of rural infrastructure, more particularly of roads and lack of proper and adequate marketing and storage facilities with little contribution from agro-processing units. There is no perceptible impact on employment; only during road construction period some additional employment was generated. However, increase in employment opportunity outside villages has increased because of accessibility and connectivity. People have reported that they find it easier to travel seeking work and there is greater job continuity.

The total workforce is 35% of the total population, which derives a logical conclusion i.e. 65% of the population, is dependant on the income from rest of the population. About 62% people in the watershed are literate. In comparison, females are less educated than males. Despite moderate literacy rate of 62%, the unemployment is high as current education qualification does not necessarily competent in the market. Mass education should be spread by establishing more primary and secondary schools. It must be made both compulsory and free for the females and the males as well, so to improve the educational level. The economic condition of the people is not very encouraging as 7% families belong the BPL class, 8% of families of the watershed are landless, 19% of families belong to SC category and 91% families are marginal famers. The livelihood of the landless mainly depends upon the occasional employment they get in agriculture sector or they migrate to the nearby city for day to day labour work. The family size in the villages ranged from six to eight with at least four children in most of the households. This holds true for all castes and religions. The high population growth rate has translated into a high rate of unemployment. The family planning programmes implemented through the public health centers (PHCs) and serviced by the ANMs are reported to be working well. However, these services need to be improved.

Females of the watershed are mostly engaged in Aonla pickle and murabba production, this is a homemade preserves business. The processing of homemade fruit preserves are the jams, murabba, jellies, pickles etc. for growing the market in this business. Males keep themselves busy in marketing of these products. This is the major employment of the people of the watershed. Pickling had its roots as a preservation technique, especially for sailors, but nowadays it has evolved into a business opportunity. Many people particularly enjoy the taste and flavors of pickled vegetable; hence it has risen in demand. There are a

variety of vegetables that you can gather for pickling. Like in the watershed there is a growth of Aonla and Mango, which are very famous pickles of Uttar Pradesh region. The status of women in general is appalling in the watershed. They are the largest labour force inside and outside the family.

The watershed has average water table of 8-15 m. During pre-monsoon, the groundwater occurs in 8-15m depth almost in 99% of the area. Post-monsoon, the groundwater level increases almost upto the ground level along the Sai river during rainy season. The groundwater throughout year is maintained to 8-15meter in 99% area is mainly due to recharge from rivers. There are about 78 wells in the watershed, 65 are functional and about 10 are no longer functioning in the watershed. The tubewell intensity in the region is 0.2 per hectare and hence irrigation is mostly done using groundwater. As groundwater potential is good in the watershed but increasing overdraft for the irrigation is a growing concern. The increasing soil salinity of the watershed is the major concern as 7-8% of the area is affected due to salinity. Being flat, gently slopped, maximum area under cultivation, almost 33% of the land comes under Class-I. Rest of the 67% of the area needs a proper planning for soil-water conservation. 25% of total area is under Class III, which is moderately susceptible to salinity issue. Almost 20% of the area is under class VI, which is along the drains and river is susceptible to erosion. About 65% of area is subjected to E₁ erosion, whereas the E₂ erosion is observed in about 28% area which is along the streams. In this regard, the proper soil-water conservation measures are necessary to stop soil erosion.

The overall infrastructure needs to improved and also the accessibility to the infrastructure and facilities. Every Watershed should have a hospital or a primary health centre for providing medical aids to the villagers. Rural banking should be set up for financial assistance to the village people. A good network of roads is the first and foremost requirement for development. It not only makes it easier to transport goods and services but also saves on time as well as costs. Moreover, it facilitates the flow of information and knowledge. The construction of rural roads and programmes of village connectivity have received considerable attention in the past few years in the state. There is need to develop agricultural facilities like cold-storages, *Krishi Upaj Mandi*, and post harvesting processing units. So that it can provide access to villagers in post-harvest storage, marketing accessibility and also processing will be value-addition for better economic returns.

4.2 Socio-economical problems and gaps

Economic growth, sustainable use of natural resources and environmental security were identified as the major issues to be addressed in the watershed area. People in the villages depend mostly on agriculture and it is vulnerable to climate change. After months of hard work, when the crop is ready to be harvested, untimely rains just damage the yield which leads to huge losses. Agriculture being a labour intensive job, people spends so much of time in the fields yet it ends up giving negligible returns at times. A proper compensation mechanism need to be established and delivered in case such climatic events. The villages needs to have co-operative societies and government assistance to regulate buying and selling of agricultural produce. Most of the farmers go to the nearby town to sell their products at throw away prices and later small shops from this village buy it from those traders, who sell it at much higher prices. So ironically people in the village end up paying more for their own produce. So it is becoming very important to find an alternate and steady income. The post-harvesting processing of Aonla, and Mango, can be a major employment opportunity for the people of the watershed.

Watershed should have accessibility to health facilities, also veterinary services for the animals. The quality of education should be improved. The current education system is not upto the level. Also a skill development programmes should be implemented in accord with need of the area. Government should be encourage and develop the agriculture based industries in district so that the rural people don't migrate to the urban areas. More employment should be generated in district for the seasonal unemployment people. Rapid Industrialization should be created. Development of the district will stop the migration of the rural people to the nearby districts like Lucknow and Allahabad and this will not put more pressure on the urban city jobs. A good network of roads is the first and foremost requirement for development. It not only makes it easier to transport goods and services but also saves on time as well as costs. Moreover, it facilitates the flow of information and knowledge. The construction of rural roads and programmes of village connectivity have received considerable attention in the past few years in the state. Rural banking should be set up for financial assistance to the village people. Drinking water to the SC people is also a problem therefore hand pump needs to be installed in the area through other state/central govt. programmes under convergence. All the drains in the watershed need de-silting and cleaning so as to drain the run-off water efficiently to the Sai River. Few troughs also need to be constructed near a water source to provide fresh water to the animals.

4.2.1 Details of SWOT Analysis

Details of Strength, Weakness, Opportunities and Threats (SWOT) are given below.

Parameter	Strengths	Weaknesses	Opportunities	Threats
Community	<ol style="list-style-type: none"> 1. Women's active involvement in farm related activities, and in Aonla production. 2. Household is significant feature and women are involved in most of the operation in agriculture including subsidiary enterprises like dairy and poultry etc. 3. Most of the women farmers irrespective of their category are hard working in the farm activities and have excellent knowledge of making pickles. 	<ol style="list-style-type: none"> 1. Increasing effect of urbanization on rural youth, driving them away from agriculture 2. Lack exposure of knowledge of banking and credit cooperatives. 3. Women do not have much say on policy issues of the activities. 4. Limitation of technically trained female extension workers. 5. Female workers do not impart knowledge on household activities, child care, nutrition etc. 6. Unequal wages between male and female workers. 7. Role of women in the watershed programme is not specified. 	<ol style="list-style-type: none"> 1. Skill development for the rural youth. 2. Increasing urbanization has to be seen as new market potential. 3. Making of self help groups with small savings and provision of loans by revolving fund on small enterprises related to the agriculture. 4. Awareness among the women to improve their skill and knowledge of micro-watershed based development programme. 5. Watershed development team has technical women to train women of watershed and availability of some voluntary organizations for the purpose. 6. Women's potential and capabilities have not been exploited due to lack of specific growth opportunities 	<ol style="list-style-type: none"> 1. Ill-effect of urbanization 2. Change in social functioning and relationship. 3. Male farmers may not provide opportunities to farm women for more rights.
Physical infrastructure	<ol style="list-style-type: none"> 1. Good network of road 2. Electrified villages 3. Availability of Primary and Secondary School building 	<ol style="list-style-type: none"> 1. Lack of sufficient road side plantation. 2. Insufficient electricity supply hampering irrigation schedules. 3. 	<ol style="list-style-type: none"> 1. Regularizing electricity supply 	<ol style="list-style-type: none"> 1. Lack of maintenance and accessibility

Parameter	Strengths	Weaknesses	Opportunities	Threats
Facility	<ol style="list-style-type: none"> 1. Availability of school, Angan Wadi Centres (AWC), hospital and drinking water. 2. Fair educational status of the villagers 	<ol style="list-style-type: none"> 1. Poor animal health facilities. 2. Poor agriculture storage and market facilities 	<ol style="list-style-type: none"> 1. Market opportunity in nearby districts. 2. Creation of cold-storages, post-harvesting processing etc. 	<ol style="list-style-type: none"> 1. Lack of maintenance
Technology	<ol style="list-style-type: none"> 1. Farmers know the concept of cash crops 2. Villagers know the importance of natural resource 3. Project area has number of institutions under Central/ State Govt. viz. ICAR, CSIR, SIRD, SAU's Agriculture college, and Technical university etc to backup the development programmes. 	<ol style="list-style-type: none"> 1. No significant efforts have been made to generate women specific and women friendly farm technologies. 2. Gap in technology dissemination 3. Technical knowhow is low. 4. Communication gap. 5. Lack of technical personnel at block /grass root level. 	<ol style="list-style-type: none"> 1. Great desire for the use of modern techniques in agriculture. 2. Scope of new cropping pattern and irrigation methods/ soil improvement /development of cash crops and horticulture. 3. Conservation and utilization of natural resources (with particular reference to water and forest). 4. Compact areas having cheap, hardworking and labour force. 5. Adequate availability of raw material for processing industries. 6. The activity will encourage the export of fruits, vegetables which will provide better returns to the farmers as well as foreign exchange. 7. The approach will also be helpful in minimizing the post harvest losses during the handling of produce. 	<ol style="list-style-type: none"> 1. Reduced productivity in the absence of improved technology. 2. Inadequate infrastructure for quality management. 3. Degradation of environmental issues with respect to safe/organic produce for consumers.

Parameter	Strengths	Weaknesses	Opportunities	Threats
Livelihood	<ol style="list-style-type: none"> 1. Market are available for skilled and unskilled labor 2. Most of the farmers are small and marginal. 3. Some households have livestock. 4. Aonla processing is fast-pacing employment opportunity 	<ol style="list-style-type: none"> 1. Lack of awareness regarding pre and post harvest management practices. 2. Lack of proper marketing infrastructure and strong marketing system having forward and backward linkages. 3. Prevalence of traditional cropping systems, substantial increase in area, production and productivity in major crops since last plan period. 	<ol style="list-style-type: none"> 1. Vast opportunity to attract youth towards farming sector. 2. Great opportunities in dairy, farming practices, horticulture, poultry, fruit preservation and other sectors. 3. If provided with livelihood options the income level of the households can be increased livelihood status and Quality of life. 	<ol style="list-style-type: none"> 1. Reduced productivity in the absence of improved technology. 2. Less interest in agriculture.
Micro-Enterprises and production systems	<ol style="list-style-type: none"> 1. People have the basic skills. 2. Organized microenterprise activities exists in the area 3. Natural resources for enhancing microenterprises and production are available in the watershed. 4. Aonla processing is fast-pacing employment opportunity 	<ol style="list-style-type: none"> 1. Lack of management skills. 2. Lack of technical support. 3. Lack of organized marketing facilities. 4. Lack of producer federation. 	<ol style="list-style-type: none"> 1. If provided good technical support and motivation, they can run the units in an organized way and income level will increase. 2. Increase marketing facilities 	<ol style="list-style-type: none"> 1. Farmers may loose interest in agriculture.
Natural Resources	<ol style="list-style-type: none"> 1. Climatic conditions are favorable for flourishing biodiversity and to sustain various existing eco-systems 2. Productive land and flora and fauna. 	<ol style="list-style-type: none"> 1. Depleting groundwater resources 2. Prevalence of soil erosion. 3. No maintenance of water storage bodie, pasture lands 4. Increasing use of chemical fertilizers is deteriorating soil as well water quality. 5. Insufficient fodder to sustain livestock. 6. Extreme climatic events due to climate change are occuring 	<ol style="list-style-type: none"> 1. If used advanced techniques like field bunding and use of organic manure, productivity may be increase. 2. Construction of water storage tank for irrigation. 3. Enhancing micro-irrigation 4. Sustainable groundwater management 	<ol style="list-style-type: none"> 1. Ground water may go down

Parameter	Strengths	Weaknesses	Opportunities	Threats
Soil	<ol style="list-style-type: none"> 1. Availability of good agricultural lands. 	<ol style="list-style-type: none"> 1. Susceptible to erosion 2. Increasing use of chemical fertilizers is deteriorating soil, increasing areas of <i>Usar</i> 	<ol style="list-style-type: none"> 1. Large tract of alluvial soil in the basin of River Sai 2. Organic matter can be available through various means, the composting is required. 	<ol style="list-style-type: none"> 1. Development of soil sickness due over use of chemicals.
Flow of water	<ol style="list-style-type: none"> 1. Good rain fall and perennial river is available. 2. Shallow aquifer due to alluvial geology 	<ol style="list-style-type: none"> 1. Local catchment inflow is disturbed by the road. 2. Overdraft of GW for irrigation decreasing GW level 	<ol style="list-style-type: none"> 1. Streams can be rejuvenated. 2. Rain water harvesting mechanism, soil water conservation measures are required. 	<ol style="list-style-type: none"> 1. More competition for water. 2. If GW depletes, the chances of occurrence of heavy metals pertaining to alluvium geology like Arsenic.
Agriculture	<ol style="list-style-type: none"> 1. Provides income and employment. 2. Has potential to increase productivity. 3. Availability of natural/ man-made resources 	<ol style="list-style-type: none"> 1. Lack of organic farming practices. 2. Lack of awareness regarding innovative technique of crop production. 3. Lack of irrigation facilities. 	<ol style="list-style-type: none"> 1. If provided with proper irrigation, considerable increase in agriculture production. 2. Increasing demand for organic products. 3. Integrated farming systems can be developed. 	<ol style="list-style-type: none"> 1. Dairy and live stock may reduce.
Horticulture	<ol style="list-style-type: none"> 1. Favorable climate for horticultural activities. 2. Good market facility is available for horticultural produce. 3. Aonla, Mango, Guava and other vegetables are already grown, 	<ol style="list-style-type: none"> 1. Unavailability of new varieties. 2. Lack of export facilities. 3. Lack of storage facilities. 4. Slow promotion of processing of horticultural produce, value addition and less availability of processing industries in the sector. 	<ol style="list-style-type: none"> 1. Availability of good land. 2. Interest of the villagers to expand horticulture activities. 3. Increasing price level. 	<ol style="list-style-type: none"> 1. Rapid climate change

Parameter	Strengths	Weaknesses	Opportunities	Threats
Animal husbandry	<ol style="list-style-type: none"> 1. Favorable environment for rearing cow and goats. 2. Many households are engaged in dairy and live stock. 3. Provides income and employment 	<ol style="list-style-type: none"> 1. Lack of fodder availability. 2. Lack of advanced cattle breed. 3. Low level of milk production 4. Lack of Knowledge base regarding scientific cattle management. 5. Lack of efficient technology in the area specific and technical knowledge at various levels. 	<ol style="list-style-type: none"> 1. Providing more advanced cattle breeds can increase the milk production and enhance their subsidiary livelihood option. 2. Promotion of nursery raising and pasture development will address the lack of fodder availability. 3. Pasture development. 	<ol style="list-style-type: none"> 1. Animal diseases. 2. Excessive grazing on degraded and small community lands.

4.3 Strategic Options: Strategic options for the watershed for developing comprehensive sustainable watershed development plan-

Sr.No.	Objective	Strategic options
1.	Judicious use and management of water	<ul style="list-style-type: none"> • Continuous fall in the level of groundwater needs to be arrested. • Harnessing rain water for irrigation and recharging by means of constructing rain water harvesting structures like CB, Chek Dam & Tank etc. • Optimal use of the potential by modernization and rehabilitation of irrigation projects – promotion of water-smart technologies for irrigation like sprinkler, drip, piped underground irrigation system etc. • Providing proper drainage options. • Data keeping for groundwater level and rainfall by Gram panchayat.
2.	Maintaining safe drinking water	<ul style="list-style-type: none"> • Use of deep aquifer for drinking water as shallow aquifers are polluted with hazardous elements. • Regular chlorination of drinking water sources. • Time to time checking of groundwater quality, abandoning the polluted / hazardous sources.
3.	Improve problematic land	<ul style="list-style-type: none"> • Reclamation of <i>salinity</i> affected land. • Pasture development, fodder development on barren, waste lands to increase fodder availability and also to check soil erosion. • Soil & water conservation measures to check on soil erosion and also to improve in-situ soil moisture.
4.	Improve soil health for sustainable production	<ul style="list-style-type: none"> • Strengthening of district soil testing labs and establishing labs at tehsil/block level. • Promotion of balanced use of fertilizers, micro nutrients and IPNM & IPM. • Promotion of green manuring, NADEP/Vermi compost, Bio-fertilizer and soil amendments to restore soil health. • Soil & water conservation measures to check on soil erosion and also to improve in-situ soil moisture.
5.	Ensure availability of quality seeds	<ul style="list-style-type: none"> • Ensure availability of foundation / certified seeds • Increase in seed replacement rate (SRR). • Seed multiplication and production programmes with local farmers. • Formation of farmer groups for creating seed banks. • Establishment of new seed processing units, seed testing lab at block level.
6.	Major genetic breakthrough	<ul style="list-style-type: none"> • Development of suitable varieties/cropping systems responsive to climatic changes with focus on thermo-insensitive varieties. • Short and medium duration high yielding varieties of various crops for rainfed condition. • Development of high yielding & disease resistant varieties in pulses/oilseeds.
7.	Enhancement of productivity of agricultural crops and vegetables production	<ul style="list-style-type: none"> • Promotion of agronomic practices like System of Crop Intensification (SCI) • Judicious use of organic and inorganic fertilizers. • Promote intercropping for better yield. • Emphasis on non-cereal production and promotion of diversification. • Provide mini-kits of improved variety of seeds. • Train farmers for off-seasonal vegetables and raising low-tunnel nursery. • Partnership with other sectors for better facilities, infrastructure, market,

		better price returns, compensation mechanism etc.
8.	Enhance – Horticulture	<ul style="list-style-type: none"> • Set up more plant nurseries for budded & grafted saplings. • Application of technology advancements for pre, post harvesting. • Promotion of storage facilities.
9.	Improvement in marketing facilities	<ul style="list-style-type: none"> • Encouraging private investment for supplying inputs, extension services, supply chain, food processing ,retailing and agro based industries • Remunerative prices to farmers commensurate with cost of cultivation
10.	Enhance mechanization and technology development	<ul style="list-style-type: none"> • Provision of custom hiring centers through Kisan Vidyalaya, Kisan resource centers or entrepreneurs • Popularizing new-age low cost technology instrument • Creating mass awareness and delivering training/orientation workshops, Organizing Kisan mela for promotion of new technologies
11.	Converting small and marginal farmers in profit making units	<ul style="list-style-type: none"> • To organized small and marginal farmer in productive and profit making units like SHGs, FPO etc.. • Implementation of all agricultural programs through these groups. • Improving skill of farmers by training and exposure visits. • Promotion of Integrated Farming Systems (IFS) by combining agriculture based other livelihood avenues.
12.	Effective risk management	<ul style="list-style-type: none"> • Fewer subsidies on premium under crop insurance schemes. • Strengthening compensation mechanism in case of loss due to natural calamities • Time for settlement of claim should be minimized. • Need of proper training and awareness programs for farmers.
13.	To improve animal health and productivity	<ul style="list-style-type: none"> • To insure availability green fodder. • Increase effective coverage of Artificial Insemination(A.I.) programme. • Establishment of new veterinary hospital. • Strengthening veterinary education and services through cadre of local trained youth, forming network of para-workers etc. • Training and skill up gradation. • To reduce/remove infertility.
14.	Promotion of small scale enterprises and home-based business for asset less families	<ul style="list-style-type: none"> • Scope for development of dairy, poultry, goatry as a profit making avenues • Dairy development – need of chilling plant and milk processing unit • Development of Poultry hatchery at block level or nearby town • Establishment of breeding farm for goats, sheep etc. • Increase market accessibility and visibility with the help of ICT tools.

Chapter 5: Recommended management programme

5.1 Arable land (rainfed/irrigated)

5.1.1 Agronomic practices

- i. High yielding variety
- ii. Major crops proposed/rotations/cultural operations/recommended conservation practices/proposed manures and fertilizers, green manuring
- iii. Use of improved implements
- iv. Plant protection measures
- v. Yield and cost of cultivation of major crops
- vi. Irrigation

5.1.2 Engineering measures in arable land (Class wise *i.e.* I, II, III and IV)

- i. Proposed measure and its justification
- ii. Specification of individual measures with plan and design calculation
- iii. Drawing with plan, section, elevation may be give
- iv. Estimate of the work

Note: Engineering design o f each work will include hydrological design, hydraulic design and structural design

5.2 Non Aarble land

5.2.1 Agronomic practices of Orchard and plantation

- i. Type of orchard/plant with spacing, pit size, soil working and planting
- ii. Fencing type
- iii. Management practice
- iv. Cost of raising orchard/plantation
- v. Yield.

5.2.2 Engineering measures in non arable land

- i. Proposed measure and its justification
- ii. Specification of individual measures with plan and design calculation
- iii. Drawing with plan, section, elevation may be give
- iv. Estimate

Note: Engineering design o f each work will include hydrological design, hydraulic design and structural design

5.2.3 Diversion drain/interceptor drain/grossed waterway

- i. Alignment of each drain to be shown on map
- ii. Design (cross section of each)
- iii. Estimate

Note: Engineering design o f each work will include hydrological design, hydraulic design and structural design

Chapter 6: Proposed interventions

6.1. Soil management and landuse

Deteriorating soil health is a serious problem in project area. Not only the organic matter which is low but also imbalance of major nutrients NPK and micronutrients has telling effect on crop yields. The large part of cow dung is being used as fuel and not for farmyard manure. To improve upon the soil health and nutrient imbalances, two components are proposed:

- Improving soil health through green manuring.
- Demonstrating nutrient management through Integrated Nutrient Management (INM) system.

Above two components are proposed to be run as given below:

(i) Enrichment of organic carbon content using green manuring

- Green manuring can be an important intervention to cope up with the problem.
- Green manure crops such as daincha, sunhemp, and cowpea etc not only fix nitrogen but also add organic carbon. It is proposed to provide seeds of green manure crops to selected farmers.

(ii) Establishment of Integrated Nutrient Management (INM) system

Balanced use of plant nutrients is essential for sustainable intensification of agriculture. The goal of INM is to promote balanced use of plant nutrients, so as to increase crop productivity in an efficient manner. Few demonstrations of 0.40 ha will be conducted in every gram panchayat.

6.2. Efficient use of water resources and management

Since the availability of water supply is the major constraint in the project area, there is an urgent need to promote water conservation and efficient on farm water management practices to improve the productivity per unit of water consumed. Under this programme the following components are proposed:

(i) Adoption and promotion of precision farming techniques through micro irrigation

Micro irrigation system enhances irrigation and water use efficiency. It also helps in increasing the fertilizer use efficiency. Being one of the main components of precision farming, it can be of great help for small and marginal farmers. Under capacity building module this component will be addressed.

(ii) Demonstration cum training of ridge and furrow system and SRI of paddy cultivation for increasing water use efficiency and eco-friendly cultivation

Paddy is generally cultivated in puddle fields and is transplanted in standing water. Recently a new technique “transplanting of paddy seedlings on both sides of ridges under non puddled conditions” has been reported to have given good yield with only 50 percent quantity of water use along with efficient utilization of added plant nutrients and better micro-climate which reduces the incidence of pests and diseases. Also, this method improves the soil texture and soil health, with lesser pollution of ground water. The weed problem under this technique can effectively be controlled with the use of new herbicide (s) and with no residual effects on succeeding crops. In this method, bed planter is used for preparing ridges on well-prepared field. Three to four weeks old seedlings of paddy are transplanted on both sides of ridges, keeping a distance of fifteen centimeters between the seedlings, ten centimeter above the

bottom of the furrow. Thus 33 seedlings per square meter will be maintained as in case of conventional transplanting. It is proposed to conduct demonstrations of this technology to convince the farmers that water can be saved in paddy cultivation without compromising with the yield. Similarly SRI will be useful to save water and fertilizer without compromising crop yield. Each gram panchayat will be provided a bed planter for conducting demonstrations and a total sum of Rs. 30,000.00 shall be spent on each of such trainings.

6.3. Seed and planting material

Seed is the most crucial agriculture input for improving the production and productivity of crops. Better seed replacement ratio coupled with proper seed treatment can largely contribute to improve the yield of crops per unit area. Similarly availability of high quality planting material for horticulture crops can improve their productivity. The following interventions are proposed to be taken up under this programme:

(i) Establishment of seed treatment and demonstrations units at gram panchayats level for early and high germination rate to increase crop yield

The concept of seed treatment is the use and application of biological and chemical agents that control or contain primary soil and seed borne infestation of insects and diseases which pose devastating consequences to crop production. Seed treatment ensures crop safety, leading to establishment of healthy and vigorous plants resulting in better yields. The benefits of seed treatment are as follows:

1. Increased germination
2. Ensures uniform seedling emergence.
3. Protect seeds or seedlings from early season diseases and insect pest thereby improving crop emergence and its growth.
4. Improved plant population and thus higher productivity.

Presently, 70% requirement of seed is met from the farmer's own stock which goes for sowing without seed treatment. The demonstrations and training on seed treatment will be conducted at gram panchayat level. The demonstrations will be conducted in 0.25 ha area and the farmers will be trained simultaneously on the techniques of seed treatment. Component of seed demonstration unit are:

Item	Area/Number	Cost in Rs
Fungicides	0.4 ha	50
Seed treating Drums	One	1150
Operational Charges/ demonstration (Rs. 2000 /demonstration)	0.4ha	2000
Total	-	3200

(ii) Production and supply of quality seeds and planting material for improvement of seed replacement rate (SRR)

The major field and horticultural crops of the project area are wheat, potato, pulses, rice and vegetables, where replacement of seed and planting material can boost the production and productivity. This programme is required to be taken up in a project mode. Except for hybrids maize, rice and vegetable crops, the farmers can produce the certified seed/ foundation seed stage-2. It is proposed that the farmer may get his crop inspected, so

that instead of certified seed, he is able to produce foundation seed stage-2 so as to meet the desired seed replacement requirement. The government may provide foundation seed to one fifth of the farmer every year. The seed produced by these farmers will be supplied to the next group of farmers during subsequent years.

To support nutritional kitchen garden as well as production of high value crops by small and marginal farmers, special emphasis is required to be given to provide high quality vegetable seeds to the farmers.

(iii) Seed replacement

Seed is the single most critical input in production. High quality seed is likely to increase production by 10 -15 % with following additional benefits:

- Quality seed and planting material will become available to the small and marginal farmers particularly of high value crops to boost their profitability.
- The seed borne diseases and insects can be controlled at a minimum cost by seed treatment and it is expected that farmers of all strata will be benefited and their income shall be raised by 10 - 30 %.
- Proper management of insect pest and diseases by seed treatment will reduce environmental pollution.
- High quality planting material will result in better quality of horticultural and agricultural produce, thus higher returns to the farmers.

6.4. Technology dissemination

The present agriculture extension system is not designed to meet out the integrated requirement of the farmers. It is required that for reaching out every farm unit a new programme *i.e.* based on information and communication technology (ICT) be adopted. The outline of the programme is given here under:

(i) Publication and mass campaign for resource development of agri and allied sector using ICT

The publication, training and mass campaign system has a vital role in the overall development of agriculture and allied sector. According to the multidimensional needs of the farmers, the publication, awareness and mass campaign with the full support by training will provide extra and latest information to the farmers in their respective fields as and when required. Therefore, to make timely available and proper use of printing materials and electronic media related to every modern technology can be passed on very quickly up to the grass root level (learning by doing and seeing by doing) and to cover every village of the entire project area.

(ii) Farmers study tour within and outside the state for exposure and motivation towards commercialized agriculture

In order to induce competitive instinct in the minds of farmers of lesser developed areas, it is essential to expose them to well developed pockets of U.P. in first stage. These visits will strengthen the confidence of farmers in new technologies and see the practical adoption of new technologies.

Personal interaction and listening to success stories from horses mouth will change the mind set and to adjust the changes in their own package of practices. In district the progressive farmers will be included in the proposed study tour. Various agriculture segments for improvement will be selected like: fish culture by visiting East U.P; higher production of potato from success story of Kannauj/Farrukhabad/Agra, etc; better mechanization of farms of West U.P. Additionally farmers could also visit other states like: Maharashtra & Valsad (Gujarat) to see the organized mango cultivation, Nasik for grapes and onion, Stara for ginger cultivation, and Haryana/ Punjab/ Gujarat for dairy etc.

(iii) Training and demonstrations of weed management in major crop to reduce the yield loss

The association of weed with the crops is well known because weeds compete with the crops for various growth factors like light, space, nutrients, moisture etc. The competition of weeds reduces the crop yield from 15 to 25 percent depending upon the type of weed flora, its intensity and duration of competition. The introduction of dwarf genotypes with the high inputs use like fertilizers and irrigation requirements has further aggravated the weed problems. The project will consist of training and demonstrations on chemical weed control in major crops of the region.

(iv) Farmers training for seed production at *Krishi Vigyan Kendra*

KVK/ KGKs/RIRD are very prestigious units/Institution in the district, which provides latest production technology to the farmers by different ways. To provide latest information and training to the farmers, it is necessary that KVK/ KGK/RIRD are kept up to date, so that, farmers can utilize their services and advise and adopt latest techniques on their own farms.

6.5. Farm mechanization

Farm mechanization plays very vital role in timely and precision performance of different farm operations. In areas of intensive agriculture i.e. where two or more than two crops are taken in a year, use of machinery can greatly enhance the productivity by timely performance of various agricultural operations and thereby improving the input use efficiency. But, this is the most capital-intensive agricultural input. The various interventions proposed are as follows:

(i) Demonstration of farm mechanization at gram panchayat level to minimize the energy loss of human resources

Interaction with village panchayats in the project area revealed that there is need to make available farm machinery to small and marginal farmers. However, they cannot afford to purchase costly farm machinery as it will not be economical for their smallholdings. Further lack of farm machinery at small farm brings drudgery on farm women. To meet the requirement, village level cooperative societies or farmers clubs, or entrepreneur will be encouraged to purchase the machinery and made will be made available to the farmers on custom hiring basis.

6.6. Horticulture

(i) Promotion of protected cultivation of vegetable crops under low tunnels for early production of vegetables

Majority of farmers in project area are small and marginal and their holdings are uneconomical. If provided with capital support and know how, they can compliment production of cucurbits out of main season in protected structure like low tunnels. The cost of material for erection of low tunnels including plastic for one hectare is Rs. 50,000. Small and marginal farmers have very small holding and it is expected that not more than 500 sq mt areas shall be put under plastic tunnel at one time. The cost for 500 sq mt. per farm unit works out to be Rs. 2500.00.

Objectives:

To start early crop of vegetables when the season is still cool will help off-season production of vegetables for higher profits. The productivity of vegetables is very high in the region which will increase cash flow to farm women. Insect – pest and disease management can be done more efficiently. Vegetable being high value crops, a better protection from weather conditions ensures crop safety and safeguards against crop failures. Higher vegetable production leads to better nutritional security. Use of low tunnels for raising nurseries of winter vegetables under protection ensures production of quality planting materials and safeguard for expensive composite seed.

(ii) Demonstration and supply of healthy nursery raising in vegetable crops

Vegetable crops including onion, cole crops, capsicum, chillies, tomato and brinjal are raised through nursery. All these crops are high value and highly productive. They suit to small and marginal farmers and especially it is the women who take care of vegetable production. Healthy nursery of these vegetables ensures the success of vegetables production venture. It is therefore proposed to train the farmers on the practices of raising healthy nursery.

Objectives

- To raise healthy nursery of the high value crops through high quality seed to ensure crop success.
- To provide quality-planting material and costly seeds i.e. hybrids.
- To boost the income of small and marginal farmers.
- To increase cash flow to farm-women through raising quality nursery of vegetables crop for own use and for sale to other farmers.

Technology

Small raised beds of 3 meter x 1 meter x 10 cm are prepared. Well rotten FYM or vermi-compost is added to each bed. The beds are drenched with formalin solution (1 part formalin and 7 part water). After doing so the beds are covered with polythene sheets and left as such for one week, so that, formalin fumes get deep in to the soil and it is sterilized properly. The covering with polythene also ensures solar sterilization of soil. After one week the polythene is removed and the soil is raked number of times for at least one week, so that, formalin fumes are completely driven out. As a check, a handful of soil is taken out from the bed and smelled to feel if there are any fumes of formalin smell left in the soil. Just in case, if the soil still smells of formalin it should be left for another two- three days and further raking

of soil may be done. Normally, it takes 2-3 weeks time to prepare the nursery bed and sterilized them for sowing of seeds. Therefore, bed preparation programme should be started at least three weeks in advance of actually planting the seeds in nursery beds. Since the vegetable seeds particularly hybrids are very costly, healthy nursery is very important. Further, it should be kept in mind that the seeds are sown in line and it should not be congested. If required low plastic tunnels can be prepared to protect valuable nursery seedlings.

The cost of raising ten nursery beds each of 1m x 3m diameter is given here under:

Hybrid/OP seeds, formalin, FYM, vermicompost, fertilizers, polythene sheets, polytunnels	Rs. 5000
Fifty man days for preparation of beds and nursery-raising for one month	Rs. 5000.
Total	Rs. 10,000

(iii) Development of nutritional kitchen garden/back yard garden for balanced nutrition at village level and involvement of women in horticulture.

Rural people particularly women and children suffer from lack of vitamins and minerals. Nutrition garden can play an important role to solve this problem, besides this, nutritional garden also ensure economical and nutritional security. On an average eight member family shall require 2.4 kg vegetables and 800 g fruits per day. This production can be obtained from 500 sq mt. area. Five villages from each block of the district will be selected and one kitchen garden will be laid out in each village each year. They will be provided with input and training to raise the kitchen garden. Besides seed kits of summer and winters vegetables, three fruit trees (amrapali, papaya, citrus and guava) shall also be distributed to each.

6.7. Commercial fruits

(i). Promotion of rejuvenation of senile, old and unproductive orchards of Aonla, Guava, and Citrus

PRA survey reveals that quite a good percentage, about 20-35% of orchards are unproductive in the project area. Due to this, the productivity of these fruit crops in the region is quite low (6.2 tons/ha). Therefore, rejuvenation of such orchards is required on priority to increase productivity, ensure export competitiveness and to take advantage of global opportunities. The technology of rejuvenation of both Aonla, and guava is given below:

(a) Aonla: Rejuvenation of Aonla gives a new productive life of 15-17 years. Like other fruit crops, Aonla trees also witnesses decline in productivity after certain age and orchards become unviable. The technology of rejuvenation has been worked out and demonstrated by Central Institute for Subtropical Horticulture (CISH), Lucknow. The technology aims at pruning of undesired branches for inducing development of umbrella like open canopy of healthy shoots which ensures better light penetration and improves flowering and fruiting potential. Pruned trees attain canopy of healthy shoots in two years time and after three years onward they start bearing fruits. The technology involves pruning of undesired branches from a height of 4-5 meters from ground during month of December. Four to medium sized branches with outward growth are retained for basic framework of tree for the development

of canopy. Other criss-cross, intermingling, dried and diseased branches are marked for complete removal, which is also done in month of December. Branches for canopy development are pruned at a distance of about 75 cm at their base.

Immediately after pruning, fungicidal paste should be applied on cut surfaces to check microbial growth. It is observed that alternate row pruning is much more acceptable to growers as there is less economic loss and the availability of better light to un-pruned adjacent rows which greatly increases their fruiting potential. Apart from this, pruned trees are to be provided intensive care of nutrition, irrigation and management of insect, pests and diseases. Five to six months after pruning, outwardly growing 8-10 healthy shoots need to be retained per branch. This operation is done during June to August. If the orchard is of inferior variety, then the branches (new shoots) can be grafted with improved variety, which is called as “top working”. Pruned trees have been found to have 2-3 times higher average yield than the control plot in which pruning is not done.

(b) Guava: The unproductive old orchards which produce low-grade fruits need to be rejuvenated through heavy and systematic pruning followed by proper nutrition, irrigation and plant protection measures. Heading back of unproductive guava orchards is done in the month of May followed by judicious thinning and pruning of newly sprouted shoots in the month of October. The newly emerged shoots after October pruning are found to be very conducive for flowering and fruiting in the following season.

(c) Citrus – Citrus is another fruit crop which has favorable conditions in Pratapgarh and hence to be promoted on commercial basis.

Assistance under National Horticulture Mission (NHM)

This activity has been adopted by NHM and assistance norms are 50% of the estimated cost of Rs. 30,000/ha subject to a maximum of Rs. 15,000/ha limited to 2 hectares per beneficiary.

(ii). Promotion of high density planting of guava fruit crops

Although India is the largest producer of guava, however yields are very poor varying from 6.2 tons/ha in mango and 11.0 ton/ha in guava. The main reason for low yields are wide spacing, low penetration of improved varieties and poor management practices. Even countries like Brazil, Mexico and Egypt harvest yields up to 9.2 tons/ha to 16.0 tons/ha in mango. It is a common practice to plant guava at a spacing of 8m × 8m between rows and between plants within rows. With the wider spacing it takes 7-10 years to fill the space between plants. Thus there is tremendous scope for increasing orchard productivity by increasing planting density. Along with high planting density, early height control and canopy management are essential to control vegetative growth and to achieve desired results. Researchers conducted at Central Institute for Subtropical Horticulture(CISH) at Lucknow has revealed that a spacing of 6.0m × 3.0m is most favourable. In this case also, yields of the order of 15-16 tons/ha can be easily obtained with Allahabad Safeda variety.

6.8. Proposed intervention for livestock

The livestock sector is an important sector of agricultural economy of the state and accounts for about one fourth of the net state domestic product. The opportunities in

improving the performance of this sector are much more as compared to crop sector as the farmers are already practicing dairy and backyard poultry to supplement their income.

To increase the productivity in animal sector the major contribution rests on the genetic up-gradation of livestock. So far as dairy development is concerned, induction of additional milch animals and transforming the backyard dairy units into commercial dairy farms with minimum ten animals is required. Farmers training for better herd and milk management need to be done through latest techniques and farm practices.

(i) For year round production of green fodder to

It has been realized that seed is the most limiting factor in fodder production. The fodder crops being very shy seed setters, sufficient quality of good seed is not available. In the present situation, the berseem seed costs approximately Rs. 100 /kg and 20 kg seed is needed for one hectare. Accordingly following norms for fodder seed production and seed acquisition by the government for further distribution will be followed. Barseem seed will be distributed to registered farmers having mixed farming system @ 4 kg / farmer costing Rs 400.

(ii) Cattle shelter

Cattle shelter will be provided under MGNREGA fund.

(iii) Promotion of Goat Rearing

Goat rearing is common in almost all gram panchayat in project area. Goat is used both for milk and meat purpose by the people. During last five years 90% of meat consumption in the district comes from goat. There is a need for promoting goat rearing. To promote goat rearing goat shelter will be provided.

(iv) Dairy Training Workshop for Women

The first step will be to sell the idea of dairy farming aggressively in the target area. This will be done by holding dairy training workshops extensively in the district, so as to cover the entire area repeatedly. These will be high tech camps wherein the requisite message will be passed across the audience in a very cordial, conducive and friendly environment. Dairy training workshop will be conducted to encourage and equip with knowledge to prospective dairy farmers and 50 percent target beneficiary should be women.

6.9 Works under Production system

6.9.1 Proposed grampanchayat wise area under demonstration (ha)

Sl. No	Name of Grampanchayat	Treatable area (ha)	Wheat SWI	Aonla + Intercropping	Seed Treatment Demonstrations	Oil seed+ potato intercrop	Early vegetable	Paddy SRI	Arhar transplanted	Maiz + transplanted Legume	Millet s	Green manure (Dhaincha)	Groundnut intercrop	Zaid oilseed	Off season zaid vegetable	Total area
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Ajgra	79.76	3.7	1	1	1	1	3	1	1	0.7	1	0.7	0.5	0.4	16.0
2	Badhani	171.05	8.4	1	1	1	1	6	3	2	1.6	1	1.6	1.1	0.8	30
3	Bahlolpur	177.03	8.5	1	1	1	1	6	3	2	1.6	1	1.6	1.1	0.8	30
4	Bahuchara	224.46	10.9	2	2	2	2	7	4	3	2.1	2	2.1	1.4	1.0	42
5	Bansupur	81.24	3.7	1	1	1	1	3	1	1	0.7	1	0.7	0.5	0.4	16
6	Barista	80.23	3.7	1	1	1	1	3	1	1	0.7	1	0.7	0.5	0.4	16
7	Basupur	112.01	5.9	1	1	1	1	4	2	2	1	1	1	0.7	0.5	22
8	Bhuwalpur	136.16	7.1	1	1	1	1	5	2	2	1.3	1	1.3	0.9	0.6	25
9	Bojhwa	103.69	4.9	1	1	1	1	3	2	1	1	1	1	0.7	0.5	19
10	Chaemar Saraiya	176.04	8.5	1	1	1	1	6	3	2	1.6	1	1.6	1.1	0.8	30
11	Dadu Puran Singh	177.54	8.5	1	1	1	1	6	3	2	1.6	1	1.6	1.1	0.8	30
12	Dekahi	14.9	1.1	0	0	0	0	0	0	0	0.1	0	0.1	0.1	0.1	2
13	Deoli	337.5	16.8	3	3	3	3	11	6	5	3.1	3	3.1	2.2	1.5	64
14	Gadwara	39.63	2.3	0	0	0	0	1	1	1	0.4	0	0.4	0.3	0.2	7
15	Gahri	146.4	7.2	1	1	1	1	5	2	2	1.3	1	1.3	0.9	0.7	25
16	Gaura Dand	0.07	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
17	Gazi Mahubavan	177.32	8.5	1	1	1	1	6	3	2	1.6	1	1.6	1.1	0.8	30
18	Gharaura	179.74	9.5	1	1	1	1	6	3	2	1.7	1	1.7	1.2	0.8	31
19	Handaur	40.41	2.3	0	0	0	0	1	1	1	0.4	0	0.4	0.3	0.2	7
20	Hariherpur Kailha	89.81	4.7	1	1	1	1	3	1	1	0.8	1	0.8	0.6	0.4	17
21	Kataka Bali	263.93	13.2	2	2	2	2	9	4	4	2.4	2	2.4	1.7	1.2	48
22	Kharagpur	140.83	7.2	1	1	1	1	5	2	2	1.3	1	1.3	0.9	0.6	25
23	Kodra Madupur	144.77	7.2	1	1	1	1	5	2	2	1.3	1	1.3	0.9	0.7	25
24	Kodra Mangolpur	5.57	0	0	0	0	0	0	0	0	0.1	0	0.1	0	0.0	0
25	Koty Newada	184.82	9.5	2	2	2	2	6	3	3	1.7	2	1.7	1.2	0.8	37
26	Lilapur	25.68	1.2	0	0	0	0	1	0	0	0.2	0	0.2	0.2	0.1	3
27	Makaipur	163.03	8.3	1	1	1	1	5	3	2	1.5	1	1.5	1	0.7	28
28	Mavaiya Kala	94.11	4.8	1	1	1	1	3	2	1	0.9	1	0.9	0.6	0.4	19

Sl. No	Name of Grampanchayat	Treatable area (ha)	Wheat SWI	Aonla + Intercropping	Seed Treatment Demonstrations	Oil seed+ potato intercrop	Early vegetable	Paddy SRI	Arhar transplanted	Maiz + transplanted Legume	Millet s	Green manur (Dhaincha)	Groundnut intercrop	Zaid oilseed	Off season zaid vegetable	Total area
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
29	Multanipur	103.05	4.9	1	1	1	1	3	2	1	0.9	1	0.9	0.7	0.5	19
30	Nevada Kala	237.92	12	2	2	2	2	8	4	3	2.2	2	2.2	1.5	1.1	44
31	Paharpur	36.16	2.3	0	0	0	0	1	1	0	0.3	0	0.3	0.2	0.2	5
32	Pure Khusai	0.13	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
33	Rampur Khajur	24.47	1.2	0	0	0	0	1	0	0	0.2	0	0.2	0.2	0.1	3
34	Rampur Pran	74.15	3.6	1	1	1	1	2	1	1	0.7	1	0.7	0.5	0.3	15
35	Rasulpur Gulraha	14.44	1.1	0	0	0	0	0	0	0	0.1	0	0.1	0.1	0.1	2
36	Sagra Sundarpur	115.85	6	1	1	1	1	4	2	2	1.1	1	1.1	0.7	0.5	22
37	Sakrauli	203.31	10.7	2	2	2	2	7	3	3	1.9	2	1.9	1.3	0.9	40
38	Sangrampur Kila	179	9.5	1	1	1	1	6	3	2	1.6	1	1.6	1.2	0.8	31
39	Shivrajpur	70.65	3.6	1	1	1	1	2	1	1	0.6	1	0.6	0.5	0.3	15
40	Sondwa Duban	286.11	14.4	2	2	2	2	9	5	4	2.6	2	2.6	1.8	1.3	51
41	Tej Garh	22.57	1.2	0	0	0	0	1	0	0	0.2	0	0.2	0.1	0.1	3
42	Teliyahi	208.71	10.7	2	2	2	2	7	3	3	1.9	2	1.9	1.3	1.0	40
43	Tilauri	168.19	8.4	1	1	1	1	6	3	2	1.5	1	1.5	1.1	0.8	29
44	Tina	2.28	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
45	Trlokpur Visai	130.28	7.1	1	1	1	1	4	2	2	1.2	1	1.2	0.8	0.6	24
Total		5445.0	274.3	42.0	42.0	42.0	42.0	180.0	88.0	71.0	49.7	42.0	49.7	34.8	24.8	982.3

6.9.2 Cost of Crop production system intervention

Sl. No.	Name of Grampanchayat	Treatable area (ha)	Wheat SWI @ Rs 4000	Aonla + Intercropping	Seed treatment (Legumes) demonstrations @ Rs 6400	Oilseed+ potato intercrop @ Rs 4000	Early vegetable @ Rs 1000	Paddy SRI @ Rs 2500	Arhar Transplanted @ Rs 2000	Maiz + transplanted Legume @ Rs 2000	Millets @ Rs 1500	Green manur (Dhaincha) @ Rs 2000	Groundnut intercrop @ Rs 3000	Zaid oilseed @ Rs 1000	Off season zaid vegetable @ Rs 4000	Total in Rs
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Ajgra	79.83	14800	15000	6400	4000	1000	7500	2000	2000	1050	2000	2100	500	1600	59950
2	Badhani	171.17	33600	15000	6400	4000	1000	15000	6000	4000	2400	2000	4800	1100	3200	98500
3	Bahloolpur	177.17	34000	15000	6400	4000	1000	15000	6000	4000	2400	2000	4800	1100	3200	98900
4	Bahuchara	224.64	43600	30000	12800	8000	2000	17500	8000	6000	3150	4000	6300	1400	4000	146750
5	Bansupur	81.3	14800	15000	6400	4000	1000	7500	2000	2000	1050	2000	2100	500	1600	59950
6	Barista	80.29	14800	15000	6400	4000	1000	7500	2000	2000	1050	2000	2100	500	1600	59950
7	Basupur	111.96	23600	15000	6400	4000	1000	10000	4000	4000	1500	2000	3000	700	2000	77200
8	Bhuwalpur	135.25	28400	15000	6400	4000	1000	12500	4000	4000	1950	2000	3900	900	2400	86450
9	Bojhwa	103.77	19600	15000	6400	4000	1000	7500	4000	2000	1500	2000	3000	700	2000	68700
10	Chaemar Saraiya	176.18	34000	15000	6400	4000	1000	15000	6000	4000	2400	2000	4800	1100	3200	98900
11	Dadu Puran Singh	177.68	34000	15000	6400	4000	1000	15000	6000	4000	2400	2000	4800	1100	3200	98900
12	Dekahi	14.91	4400	0	0	0	0	0	0	0	150	0	300	100	400	5350
13	Deoli	337.77	67200	45000	19200	12000	3000	27500	12000	10000	4650	6000	9300	2200	6000	224050
14	Gadwara	38.58	9200	0	0	0	0	2500	2000	2000	600	0	1200	300	800	18600
15	Gahri	146.51	28800	15000	6400	4000	1000	12500	4000	4000	1950	2000	3900	900	2800	87250
16	Gaura Dand	0.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Gazi Mahubavan	177.46	34000	15000	6400	4000	1000	15000	6000	4000	2400	2000	4800	1100	3200	98900
18	Gharaura	179.88	38000	15000	6400	4000	1000	15000	6000	4000	2550	2000	5100	1200	3200	103450
19	Handaur	40.28	9200	0	0	0	0	2500	2000	2000	600	0	1200	300	800	18600
20	Hariherpur Kailha	89.88	18800	15000	6400	4000	1000	7500	2000	2000	1200	2000	2400	600	1600	64500
21	Kataka Bali	264.14	52800	30000	12800	8000	2000	22500	8000	8000	3600	4000	7200	1700	4800	165400
22	Kharagpur	140.95	28800	15000	6400	4000	1000	12500	4000	4000	1950	2000	3900	900	2400	86850
23	Kodra Madupur	144.88	28800	15000	6400	4000	1000	12500	4000	4000	1950	2000	3900	900	2800	87250
24	Kodra Mangolpur	5.58	0	0	0	0	0	0	0	0	150	0	300	0	0	450
25	Kotya Newada	184.96	38000	30000	12800	8000	2000	15000	6000	6000	2550	4000	5100	1200	3200	133850
26	Lilapur	25.7	4800	0	0	0	0	2500	0	0	300	0	600	200	400	8800
27	Makaiipur	163.16	33200	15000	6400	4000	1000	12500	6000	4000	2250	2000	4500	1000	2800	94650
28	Mavaiya Kala	94.18	19200	15000	6400	4000	1000	7500	4000	2000	1350	2000	2700	600	1600	67350
29	Multanipur	102.78	19600	15000	6400	4000	1000	7500	4000	2000	1350	2000	2700	700	2000	68250

Sl. No.	Name of Grampanchayat	Treatable area (ha)	Wheat SWI @ Rs 4000	Aonla + Intercropping	Seed treatment (Legumes) demonstrations @ Rs 6400	Oilseed+ potato intercrop @ Rs 4000	Early vegetable @ Rs 1000	Paddy SRI @ Rs 2500	Arhar Transplanted @ Rs 2000	Maiz + transplanted Legume @ Rs 2000	Millets @ Rs 1500	Green manur (Dhaincha) @ Rs 2000	Groundnut intercrop @ Rs 3000	Zaid oilseed @ Rs 1000	Off season zaid vegetable @ Rs 4000	Total in Rs
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
30	Nevada Kala	238.11	48000	30000	12800	8000	2000	20000	8000	6000	3300	4000	6600	1500	4400	154600
31	Paharpur	36.19	9200	0	0	0	0	2500	2000	0	450	0	900	200	800	16050
32	Pure Khusai	0.13	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	Rampur Khajur	24.5	4800	0	0	0	0	2500	0	0	300	0	600	200	400	8800
34	Rampur Pran	74.21	14400	15000	6400	4000	1000	5000	2000	2000	1050	2000	2100	500	1200	56650
35	Rasulpur Gulraha	14.45	4400	0	0	0	0	0	0	0	150	0	300	100	400	5350
36	Sagra Sundarpur	115.94	24000	15000	6400	4000	1000	10000	4000	4000	1650	2000	3300	700	2000	78050
37	Sakrauli	203.47	42800	30000	12800	8000	2000	17500	6000	6000	2850	4000	5700	1300	3600	142550
38	Sangrapur Kila	177.68	38000	15000	6400	4000	1000	15000	6000	4000	2400	2000	4800	1200	3200	103000
39	Shivrajpur	70.71	14400	15000	6400	4000	1000	5000	2000	2000	900	2000	1800	500	1200	56200
40	Sondwa Duban	286.33	57600	30000	12800	8000	2000	22500	10000	8000	3900	4000	7800	1800	5200	173600
41	Tej Garh	22.58	4800	0	0	0	0	2500	0	0	300	0	600	100	400	8700
42	Teliyahi	208.87	42800	30000	12800	8000	2000	17500	6000	6000	2850	4000	5700	1300	4000	142950
43	Tilauri	168.26	33600	15000	6400	4000	1000	15000	6000	4000	2250	2000	4500	1100	3200	98050
44	Tina	2.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	Trlokpur Visai	130.39	28400	15000	6400	4000	1000	10000	4000	4000	1800	2000	3600	800	2400	83400
Total		5445.0	1097200	630000	268800	168000	42000	450000	176000	142000	74550	84000	149100	34800	99200	3415650

6.9.3 Area under horticulture system

Sr. No.	Name of Grampanchayat	Treatable area (ha)	Fallow land (ha)	Present Area of Orchard (ha)	Aonla Rejuvenation		Guava high density		Citrus etc.		Present area under horticulture in ha	Proposed area for intervention in ha.
					Present total Area in ha	Proposed area for rejuvenation in ha	Present Area in ha	Proposed high density Area in ha	Present Area in ha	Proposed Area in ha		
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Ajgra	79.76	12.60	0.00	0.00	0.13	0	0.06	0.00	0.4	0	0.59
2	Badhani	171.05	28.20	0.00	0.00	0.28	0	0.14	0.00	0.86	0	1.28
3	Bahloolpur	177.03	89.79	8.97	5.83	2.92	2.51	0.63	0.63	1.2	8.97	4.75
4	Bahuchara	224.46	132.09	0.00	0.00	1.32	0	0.66	0.00	1.12	0	3.1
5	Bansupur	81.24	1.01	0.00	0.00	0.01	0	0.01	0.00	0.41	0	0.43
6	Barista	80.23	34.92	0.00	0.00	0.35	0	0.17	0.00	0.4	0	0.92
7	Basupur	112.01	43.20	0.00	0.00	0.43	0	0.22	0.00	0.56	0	1.21
8	Bhuwalpur	136.16	82.93	0.00	0.00	0.83	0	0.41	0.00	0.68	0	1.92
9	Bojhwa	103.69	23.69	0.00	0.00	0.24	0	0.12	0.00	0.52	0	0.88
10	Chaemar Saraiya	176.04	64.49	0.00	0.00	0.64	0	0.32	0.00	0.88	0	1.84
11	Dadu Puran Singh	177.54	99.22	0.00	0.00	0.99	0	0.5	0.00	0.89	0	2.38
12	Dekahi	14.90	0.32	0.00	0.00	0	0	0	0.00	0.07	0	0.07
13	Deoli	337.50	182.12	0.00	0.00	1.82	0	0.91	0.00	1.69	0	4.42
14	Gadwara	39.63	8.68	0.00	0.00	0.09	0	0.04	0.00	0.2	0	0.33
15	Gahri	146.40	28.73	0.00	0.00	0.29	0	0.14	0.00	0.73	0	1.16
16	Gaura Dand	0.07	0.00	0.00	0.00	0	0	0	0.00	0	0	0
17	Gazi Mahubavan	177.32	154.59	8.88	5.77	2.89	2.49	0.62	0.62	1.2	8.88	4.71
18	Gharaura	179.74	95.28	0.00	0.00	0.95	0	0.48	0.00	0.9	0	2.33
19	Handaur	40.41	0.00	0.00	0.00	0	0	0	0.00	0.2	0	0.2
20	Hariherpur Kailha	89.81	43.85	0.00	0.00	0.44	0	0.22	0.00	0.45	0	1.11
21	Kataka Bali	263.93	147.19	0.00	0.00	1.47	0	0.74	0.00	1.32	0	3.53
22	Kharagpur	140.83	51.98	0.00	0.00	0.52	0	0.26	0.00	0.7	0	1.48
23	Kodra Madupur	144.77	67.57	0.00	0.00	0.68	0	0.34	0.00	0.72	0	1.74
24	Kodra Mangolpur	5.57	1.13	0.00	0.00	0.01	0	0.01	0.00	0.03	0	0.05
25	Kotya Newada	184.82	59.04	9.28	6.03	3.02	2.6	0.65	0.65	1.25	9.28	4.92
26	Lilapur	25.68	12.03	0.00	0.00	0.12	0	0.06	0.00	0.13	0	0.31
27	Makaipur	163.03	120.95	0.00	0.00	1.21	0	0.6	0.00	0.82	0	2.63
28	Mavaiya Kala	94.11	18.87	0.00	0.00	0.19	0	0.09	0.00	0.47	0	0.75

Sr. No.	Name of Grampanchayat	Treatable area (ha)	Fallow land (ha)	Present Area of Orchard (ha)	Aonla Rejuvenation		Guava high density		Citrus etc.		Present area under horticulture in ha	Proposed area for intervention in ha.
					Present total Area in ha	Proposed area for rejuvenation in ha	Present Area in ha	Proposed high density Area in ha	Present Area in ha	Proposed Area in ha		
1	2	3	4	5	6	7	8	9	10	11	12	13
29	Multanipur	103.05	38.03	2.02	1.31	0.66	0.57	0.14	0.14	0.59	2.02	1.39
30	Nevada Kala	237.92	60.99	0.00	0.00	0.61	0	0.3	0.00	1.19	0	2.1
31	Paharpur	36.16	21.41	0.00	0.00	0.21	0	0.11	0.00	0.18	0	0.5
32	Pure Khusai	0.13	0.00	0.00	0.00	0	0	0	0.00	0	0	0
33	Rampur Khajur	24.47	7.86	0.00	0.00	0.08	0	0.04	0.00	0.12	0	0.24
34	Rampur Pran	74.15	0.00	0.00	0.00	0	0	0	0.00	0.37	0	0.37
35	Rasulpur Gulraha	14.44	5.11	0.00	0.00	0.05	0	0.03	0.00	0.07	0	0.15
36	Sagra Sundarpur	115.85	39.94	0.00	0.00	0.4	0	0.2	0.00	0.58	0	1.18
37	Sakrauli	203.31	113.26	0.00	0.00	1.13	0	0.57	0.00	1.02	0	2.72
38	Sangrampur Kila	179.00	32.91	0.00	0.00	0.33	0	0.16	0.00	0.9	0	1.39
39	Shivrajpur	70.65	11.36	0.00	0.00	0.11	0	0.06	0.00	0.35	0	0.52
40	Sondwa Duban	286.11	163.00	0.00	0.00	1.63	0	0.81	0.00	1.43	0	3.87
41	Tej Garh	22.57	11.90	0.00	0.00	0.12	0	0.06	0.00	0.11	0	0.29
42	Teliyahi	208.71	139.36	0.00	0.00	1.39	0	0.7	0.00	1.04	0	3.13
43	Tilauri	168.19	122.63	0.00	0.00	1.23	0	0.61	0.00	0.84	0	2.68
44	Tina	2.28	0.00	0.00	0.00	0	0	0	0.00	0	0	0
45	Trlokpur Visai	130.28	76.59	0.00	0.00	0.77	0	0.38	0.00	0.65	0	1.8
Total		5445.00	2448.82	29.14	18.94	30.56	8.17	12.57	2.04	28.25	29.15	71.37

6.9.4 Farm mechanization

Sl. No.	Name of Grampanchayat	Treatable area (ha)	No. of farm family	Cona weeder@2000		Aonla de-stoning machine3500		Manual Knapsack/foot operated sprayer.1300		Powered Knapsack/Taiwan sprayer		Pusa Zero energy cool chamber (100 kg)4500		Total in Rs
				NO	Amount in Rs	NO	Amount in Rs	NO	Amount in Rs	NO	Amount in Rs	NO	Amount in Rs	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Ajgra	79.76	1121	36	72000	24	84000	12	15600	1	7000	1	4500	183100
2	Badhani	171.05	436	14	28000	9	31500	5	6500	2	14000	2	9000	89000
3	Bahoolpur	177.03	355	11	22000	8	28000	4	5200	2	14000	2	9000	78200
4	Bahuchara	224.46	355	11	22000	8	28000	4	5200	2	14000	2	9000	78200
5	Bansupur	81.24	226	7	14000	5	17500	2	2600	1	7000	1	4500	45600
6	Barista	80.23	214	6	12000	5	17500	2	2600	1	7000	1	4500	43600
7	Basupur	112.01	310	9	18000	7	24500	3	3900	1	7000	1	4500	57900
8	Bhuwalpur	136.16	132	4	8000	3	10500	1	1300	1	7000	1	4500	31300
9	Bojhwa	103.69	362	11	22000	8	28000	4	5200	1	7000	1	4500	66700
10	Chaemar Saraiya	176.04	289	9	18000	8	28000	4	5200	2	14000	2	9000	74200
11	Dadu Puran Singh	177.54	322	10	20000	9	31500	4	5200	2	14000	2	9000	79700
12	Dekahi	14.90	204	6	12000	6	21000	3	3900	0	0	0	0	36900
13	Deoli	337.50	323	13	26000	9	31500	3	3900	3	21000	3	13500	95900
14	Gadwara	39.63	435	16	32000	9	31500	6	7800	0	0	0	0	71300
15	Gahri	146.40	523	19	38000	11	38500	6	7800	1	7000	1	4500	95800
16	Gaura Dand	0.07	380	0	0	0	0	0	0	0	0	0	0	0
17	Gazi Mahubavan	177.32	296	12	24000	6	21000	3	3900	2	14000	2	9000	71900
18	Gharaura	179.74	207	6	12000	4	14000	2	2600	2	14000	2	9000	51600
19	Handaur	40.41	732	23	46000	16	56000	8	10400	0	0	0	0	112400
20	Hariherpur Kailha	89.81	286	9	18000	6	21000	3	3900	1	7000	1	4500	54400
21	Kataka Bali	263.93	461	14	28000	10	35000	5	6500	3	21000	2	9000	99500
22	Kharagpur	140.83	335	10	20000	7	24500	4	5200	1	7000	1	4500	61200
23	Kodra Madupur	144.77	457	14	28000	10	35000	5	6500	1	7000	1	4500	81000
24	Kodra Mangolpur	5.57	312	2	4000	7	24500	3	3900	0	0	0	0	32400
25	Koty Newada	184.82	180	5	10000	4	14000	2	2600	2	14000	2	9000	49600
26	Lilapur	25.68	305	9	18000	6	21000	3	3900	0	0	0	0	42900
27	Makaipur	163.03	363	11	22000	8	28000	4	5200	2	14000	1	4500	73700
28	Mavaiya Kala	94.11	374	12	24000	8	28000	4	5200	1	7000	1	4500	68700
29	Multanipur	103.05	533	17	34000	11	38500	6	7800	1	7000	1	4500	91800

Sl. No.	Name of Grampanchayat	Treatable area (ha)	No. of farm family	Cona weeder@2000		Aonla de-stoning machine3500		Manual Knapsack/foot operated sprayer.1300		Powered Knapsack/Taiwan sprayer		Pusa Zero energy cool chamber (100 kg)4500		Total in Rs
				NO	Amount in Rs	NO	Amount in Rs	NO	Amount in Rs	NO	Amount in Rs	NO	Amount in Rs	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
30	Nevada Kala	237.92	330	10	20000	7	24500	4	5200	2	14000	2	9000	72700
31	Paharpur	36.16	840	26	52000	18	63000	9	11700	0	0	0	0	126700
32	Pure Khusai	0.13	67	0	0	0	0	0	0	0	0	0	0	0
33	Rampur Khajur	24.47	298	9	18000	6	21000	3	3900	0	0	0	0	42900
34	Rampur Pran	74.15	250	8	16000	5	17500	3	3900	1	7000	1	4500	48900
35	Rasulpur Gulraha	14.44	373	11	22000	8	28000	4	5200	0	0	0	0	55200
36	Sagra Sundarpur	115.85	926	29	58000	20	70000	10	13000	1	7000	1	4500	152500
37	Sakrauli	203.31	387	12	24000	8	28000	4	5200	2	14000	2	9000	80200
38	Sangrampur Kila	179.00	397	12	24000	8	28000	4	5200	2	14000	2	9000	80200
39	Shivrajpur	70.65	444	14	28000	9	31500	5	6500	1	7000	1	4500	77500
40	Sondwa Duban	286.11	380	12	24000	8	28000	4	5200	3	21000	2	9000	87200
41	Tej Garh	22.57	301	9	18000	6	21000	3	3900	0	0	0	0	42900
42	Teliyahi	208.71	321	10	20000	7	24500	3	3900	2	14000	2	9000	71400
43	Tilauri	168.19	340	10	20000	7	24500	4	5200	2	14000	2	9000	72700
44	Tina	2.28	130	0	0	0	0	0	0	0	0	0	0	0
45	Trlokpur Visai	130.28	509	16	32000	11	38500	5	6500	1	7000	1	4500	88500
Total		5445	17121	514	1028000	360	1260000	180	234000	53	371000	50	225000	3118000

6.9.5 Proposed cropping intensity

Sl. No.	Name of Gram Panchayat	Geographical area, ha	Kharif, ha	Rabi, ha	Zaid, ha	Total sown area, ha	Total Net sown area (ha)	Existing cropping intensity	Proposed Net sown area (ha)	Proposed Gross sown area (ha)	Proposed cropping intensity
1	2	3	4	5	6	7	8	9	10	11	12
1	Ajgra	130.88	33.1	45.18	6.17	84.45	61.31	137.74	70.5	106.09	150.48
2	Badhani	280.67	84.44	115.34	15.71	215.49	156.43	137.75	179.89	270.71	150.49
3	Bahloolpur	290.49	71.63	97.83	13.32	182.78	132.69	137.75	152.59	229.63	150.49
4	Bahuchara	368.31	72.54	99.08	13.5	185.12	134.39	137.75	154.54	232.56	150.49
5	Bansupur	133.30	49.8	68.03	9.28	127.11	92.28	137.74	106.12	159.69	150.48
6	Barista	131.64	30.32	41.4	5.65	77.37	56.17	137.74	64.59	97.2	150.49
7	Basupur	183.80	52.66	71.92	9.8	134.38	97.55	137.75	112.18	168.81	150.48
8	Bhuwalpur	223.42	40.79	55.71	7.59	104.09	75.57	137.74	86.9	130.77	150.48
9	Bojhwa	170.15	55.14	75.31	10.26	140.71	102.15	137.75	117.47	176.78	150.49
10	Chaemar Saraiya	288.86	84.31	115.16	15.69	215.16	156.19	137.76	179.61	270.29	150.49
11	Dadu Puran Singh	291.32	70.5	96.28	13.12	179.9	130.6	137.75	150.19	226.02	150.49
12	Dekahi	24.45	9.47	12.92	1.78	24.17	17.55	137.72	20.18	30.36	150.45
13	Deoli	553.79	134.54	183.79	25.02	343.35	249.25	137.75	286.63	431.34	150.49
14	Gadwara	65.03	21.47	29.3	4	54.77	39.76	137.75	45.72	68.8	150.48
15	Gahri	240.22	81.36	111.14	15.15	207.65	150.74	137.75	173.35	260.87	150.49
16	Gaura Dand	0.11	0.08	0.1	0.04	0.22	0.16	137.50	0.18	0.27	150.00
17	Gazi Mahubavan	290.96	47.33	64.66	8.81	120.8	87.7	137.74	100.85	151.76	150.48
18	Gharaura	294.93	64.2	87.68	11.95	163.83	118.93	137.75	136.76	205.81	150.49
19	Handaur	66.31	25.65	35.02	4.78	65.45	47.52	137.73	54.64	82.22	150.48
20	Hariherpur Kailha	147.36	38.68	52.85	7.2	98.73	71.68	137.74	82.43	124.04	150.48
21	Kataka Bali	433.08	101.14	138.14	18.82	258.1	187.37	137.75	215.47	324.26	150.49
22	Kharagpur	231.09	62.76	85.73	11.67	160.16	116.27	137.75	133.71	201.22	150.49
23	Kodra Madupur	237.55	63.77	87.11	11.87	162.75	118.15	137.75	135.87	204.47	150.49
24	Kodra Mangolpur	9.15	3.11	4.24	0.59	7.94	5.77	137.61	6.63	9.97	150.38
25	Koty Newada	303.26	82.08	112.11	15.27	209.46	152.06	137.75	174.86	263.14	150.49
26	Lilapur	42.14	10.72	14.62	2	27.34	19.85	137.73	22.82	34.34	150.48
27	Makaipur	267.50	54.74	74.76	10.19	139.69	101.41	137.75	116.62	175.5	150.49
28	Mavaiya Kala	154.42	51.64	70.54	9.61	131.79	95.67	137.75	110.02	165.56	150.48
29	Multanipur	169.09	49.82	68.06	9.28	127.16	92.31	137.75	106.15	159.74	150.49
30	Nevada Kala	390.40	117.35	160.29	21.83	299.47	217.4	137.75	250.01	376.24	150.49
31	Paharpur	59.33	11.07	15.11	2.07	28.25	20.51	137.74	23.58	35.48	150.47

Sl. No.	Name of Gram Panchayat	Geographical area, ha	Kharif, ha	Rabi, ha	Zaid, ha	Total sown area, ha	Total Net sown area (ha)	Existing cropping intensity	Proposed Net sown area (ha)	Proposed Gross sown area (ha)	Proposed cropping intensity
1	2	3	4	5	6	7	8	9	10	11	12
32	Pure Khusai	0.21	0.11	0.15	0.04	0.3	0.22	136.36	0.25	0.37	148.00
33	Rampur Khajur	40.16	9.73	13.26	1.82	24.81	18.02	137.68	20.72	31.18	150.48
34	Rampur Pran	121.67	40.83	55.77	7.61	104.21	75.65	137.75	86.99	130.91	150.49
35	Rasulpur Gulraha	23.69	5.82	7.94	1.09	14.85	10.78	137.76	12.39	18.64	150.44
36	Sagra Sundarpur	190.09	55.04	75.18	10.25	140.47	101.98	137.74	117.27	176.47	150.48
37	Sakrauli	333.60	83.31	113.81	15.49	212.61	154.34	137.75	177.49	267.1	150.49
38	Sangrampur Kila	293.72	88.37	120.71	16.44	225.52	163.71	137.76	188.26	283.31	150.49
39	Shivrajpur	115.93	33.36	45.56	6.22	85.14	61.81	137.74	71.08	106.96	150.48
40	Sondwa Duban	469.47	99.7	136.17	18.55	254.42	184.69	137.76	212.39	319.62	150.49
41	Tej Garh	37.03	6.69	9.12	1.27	17.08	12.4	137.74	14.26	21.45	150.42
42	Teliyahi	342.46	73.95	101.01	13.76	188.72	137	137.75	157.55	237.09	150.49
43	Tilauri	275.98	51.72	70.64	9.63	131.99	95.82	137.75	110.19	165.82	150.49
44	Tina	3.73	1.48	2.02	0.3	3.8	2.76	137.68	3.17	4.77	150.47
45	Trlokpur Visai	213.78	52.15	71.24	9.71	133.1	96.63	137.74	111.12	167.22	150.49
Total		8934.54	2278.47	3111.99	424.2	5814.66	4221.2	Avg: 137.7	4854.19	7304.85	Avg: 150.41

6.9.6 Animal production system related work (with MGNREGA convergence)

Sl. No.	Name of Grampanchayat	Treatable area (ha)	No. of villages	NADEP @4/village		Vermi pit@3/village		Cow/Buffalo shelter@ 2/village		Goat shelter @ 2/village		Poultry shelter @ 1/village		Total amount (Rs)
				Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Ajgra	79.76	2	8	72000	6	60000	4	180000	4	160000	2	80000	552000
2	Badhani	171.05	2	8	72000	6	60000	4	180000	4	160000	2	80000	552000
3	Bahoolpur	177.03	2	8	72000	6	60000	4	180000	4	160000	2	80000	552000
4	Bahuchara	224.46	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
5	Bansupur	81.24	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
6	Barista	80.23	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
7	Basupur	112.01	2	8	72000	6	60000	4	180000	4	160000	2	80000	552000
8	Bhuwalpur	136.16	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
9	Bojhwa	103.69	2	8	72000	6	60000	4	180000	4	160000	2	80000	552000
10	Chaemar Saraiya	176.04	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
11	Dadu Puran Singh	177.54	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
12	Dekahi	14.90	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
13	Deoli	337.50	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
14	Gadwara	39.63	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
15	Gahri	146.40	3	12	108000	9	90000	6	270000	6	240000	3	120000	828000
16	Gaura Dand	0.07	1	0	0	0	0	0	0	0	0	0	0	0
17	Gazi Mahubavan	177.32	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
18	Gharaura	179.74	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
19	Handaur	40.41	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
20	Hariherpur Kailha	89.81	2	8	72000	6	60000	4	180000	4	160000	2	80000	552000
21	Kataka Bali	263.93	2	8	72000	6	60000	4	180000	4	160000	2	80000	552000
22	Kharagpur	140.83	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
23	Kodra Madupur	144.77	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
24	Kodra Mangolpur	5.57	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
25	Kotya Newada	184.82	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
26	Lilapur	25.68	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
27	Makaipur	163.03	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
28	Mavaia Kala	94.11	2	8	72000	6	60000	4	180000	4	160000	2	80000	552000
29	Multanipur	103.05	2	8	72000	6	60000	4	180000	4	160000	2	80000	552000

Sl. No.	Name of Grampanchayat	Treatable area (ha)	No. of villages	NADEP @4/village		Vermi pit@3/village		Cow/Buffalo shelter@ 2/village		Goat shelter @ 2/village		Poultry shelter @ 1/village		Total amount (Rs)
				Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
30	Nevada Kala	237.92	2	8	72000	6	60000	4	180000	4	160000	2	80000	552000
31	Paharpur	36.16	2	8	72000	6	60000	4	180000	4	160000	2	80000	552000
32	Pure Khusai	0.13	1	0	0	0	0	0	0	0	0	0	0	0
33	Rampur Khajur	24.47	2	8	72000	6	60000	4	180000	4	160000	2	80000	552000
34	Rampur Pran	74.15	3	12	108000	9	90000	6	270000	6	240000	3	120000	828000
35	Rasulpur Gulraha	14.44	3	12	108000	9	90000	6	270000	6	240000	3	120000	828000
36	Sagra Sundarpur	115.85	2	8	72000	6	60000	4	180000	4	160000	2	80000	552000
37	Sakrauli	203.31	2	8	72000	6	60000	4	180000	4	160000	2	80000	552000
38	Sangrapur Kila	179.00	2	8	72000	6	60000	4	180000	4	160000	2	80000	552000
39	Shivrajpur	70.65	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
40	Sondwa Duban	286.11	3	12	108000	9	90000	6	270000	6	240000	3	120000	828000
41	Tej Garh	22.57	2	8	72000	6	60000	4	180000	4	160000	2	80000	552000
42	Teliyahi	208.71	1	4	36000	3	30000	2	90000	2	80000	1	40000	276000
43	Tilauri	168.19	3	12	108000	9	90000	6	270000	6	240000	3	120000	828000
44	Tina	2.28	1	0	0	0	0	0	0	0	0	0	0	0
45	Trlokpur Visai	130.28	2	8	72000	6	60000	4	180000	4	160000	2	80000	552000
Total			72	276	2484000	207	2070000	138	6210000	138	5520000	69	2760000	19044000

6.10 Livelihood activities

6.10.1 Non-farm based livelihood activities

Sl. No.	Name of G.P.	No. of BPL families	Non-farm based activities												
			Producer compny for Amala Products (@200,000)	Milk Collection Center (Federation) (@200,000)	Individual dairy unit (Rs. 20000 per farmer)	Pump set repairing (20000)	Sanatary pad making from wood pulp (40000)	Electrician (20000)	Painting work (20000)	Tiles fitter (18000)	Plumbering (18000)	Shuttering work (18000)	Hand pump mechanic (20000)	Welding Set (Rs. 15000)	Total cost (Rs)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	No. of Units		4	7	23	3	4	6	3	3	2	4	6	7	
1	Ajgra	84	200000	0	40000	0	0	0	0	18000	0	0	0	0	258000
2	Badhani	31	0		20000	20000	0	0	0	0	0	0	0	0	40000
3	Bahlolpur	26	0	200000	0	0	0	0	0	0	0	0	20000	0	220000
4	Bahuchara	26	0	0	0	0	0	0	20000	0	0	0	0	0	20000
5	Bansupur	16	0	200000	0	0	0	0	0	0	0	0	0	0	200000
6	Barista	15	0	0	0	0	0	0	0	0	0	18000	0	0	18000
7	Basupur	22	0	0	0	0	40000	0	0	0	0	0	0	0	40000
8	Bhuwalpur	10	0	0	0	0	0	0	0	0	0	18000	0	15000	33000
9	Bojhwa	25	0	0	0	0	0	0	0	0	0	0	0	15000	15000
10	Chaemar Saraiya	21	0	200000	0	0	0	0	0	0	0	0	0	0	200000
11	Dadu Puran Singh	27	0	0	20000	0	0	0	0	0	0	0	0	15000	35000
12	Dekahi	16	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Deoli	24	0	200000	0	0	40000	0	0	0	0	0	0	0	240000
14	Gadwara	32	0	0	20000	0	0	0	20000	0	0	0	0	0	40000
15	Gahri	37	0	0	20000	0	0	20000	0	0	0	0	0	0	40000
16	Gaura Dand	29	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Gazi Mahubavan	21	0	0	20000		0	0	0	0	0	18000	0	0	38000
18	Gharaura	11	0	0	0	0	40000	0	0	0	0	0	0	0	40000
19	Handaur	56	0		20000	0	0	0	0	0	0	0	0	0	20000
20	Hariherpur Kailha	30	200000	0	20000	0	0	0	0	0	0	0	20000	0	240000
21	Kataka Bali	34	0	200000	20000	0	0	0	0	0	0	0	0	15000	235000
22	Kharagpur	26	0	0	0	0	0	20000	0	0	0	0	0	0	20000
23	Kodra Madupur	35	0	0	20000	0	0	0	0	0	0	0	20000	0	40000
24	Kodra Mangolpur	23	0	0	0	0	0	0	0	0	0	0	0	15000	15000
25	Kotya Newada	31	0		20000	20000	0	0	0	0	0	0	0	0	40000

Sl. No.	Name of G.P.	No. of BPL families	Non-farm based activities												
			Producer compny for Amala Products (@200,000)	Milk Collection Center (Federation) (@200,000)	Individual dairy unit (Rs. 20000 per farmer)	Pump set repairing (20000)	Sanatary pad making from wood pulp (40000)	Electrician (20000)	Painting work (20000)	Tiles fitter (18000)	Plumbing (18000)	Shuttering work (18000)	Hand pump mechanic (20000)	Welding Set (Rs. 15000)	Total cost (Rs)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
26	Lilapur	22	0	0	0	0	0	0	0	0	0	0	0	15000	15000
27	Makaipur	28	0	0	20000	0	0	20000	0	0	0	0	0	0	40000
28	Mavaiya Kala	27	0	0	20000	0	0	0	0	0	0	0	20000	0	40000
29	Multanipur	38	0	0	20000	0	0	0	0	0	0	0	0	15000	35000
30	Nevada Kala	23	0		0	20000	0	0	20000	0	0	0	0	0	40000
31	Paharpur	60	0	0	20000		0	0	0	0	0	0	0	0	20000
32	Pure Khusai	7	0	0	0	0	0	0	0	0	0	0	0	0	0
33	Rampur Khajur	22	0	200000	0	0	0	0	0	0	0	18000	0	0	218000
34	Rampur Pran	21	0	0	0	0	0	20000	0	0	0	0	0	0	20000
35	Rasulpur Gulraha	27	0	0	20000	0	0	0	0	0	0	0	20000	0	40000
36	Sagra Sundarpur	69	0	0	20000	0	0	0	0	0	18000	0	0	0	38000
37	Sakrauli	28	0	0	20000	0	0	0	0	18000	0	0	0	0	38000
38	Sangrampur Kila	29	0	200000	20000	0	0	0	0	0	0	0	0	0	220000
39	Shivrajpur	34	200000	0	20000	0	0	0	0	0	0	0	0	0	220000
40	Sondwa Duban	28	200000	0	20000	0	0	0	0	0	0	0	20000	0	240000
41	Tej Garh	22	0		0	0	0	0	0	18000	0	0	0	0	18000
42	Teliyahi	26	0	0	0	0	0	20000	0	0	18000	0	0	0	38000
43	Tilauri	26	0	0	0	0	0	20000	0	0	0	0	0	0	20000
44	Tina	9	0	0	0	0	0		0	0	0	0	0	0	0
45	Trlokpur Visai	78	0	0	20000	0	40000	0	0	0	0	0	0	0	60000
	Total	1332	800000	1400000	460000	60000	160000	120000	60000	54000	36000	72000	120000	105000	3447000

6.10 (b) Livelihood activities – On-farm based

Sl. No.	Name of G.P.	No. of BPL families	No. of Landless families	Farm based activities														Total Rs
				Goat rearing (4F+1M goats/unit) @20000		Poultry @20000		Solar drier - Aonla with panel (Capacity 25-50kg)@25000		Backyard poultry @3500		piggary(5F+1M Unit) @20000		seed replacement (SRR) @3000		Low plastic tunnels Nursery @10000		
				No.s	Amount (Rs)	No.s	Amount (Rs)	No.s	Amount (Rs)	No.s	Amount (Rs)	No.s	Amount (Rs)	No.s	Amount (Rs)	No.s	Amount (Rs)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	Ajgra	84	81	1	20000	0	0	1	25000	1	3500	0	0	5	15000	7	70000	133500
2	Badhani	31	6	0	0	0	0	0	0	0	0	0	0	2	6000	3	30000	36000
3	Bahoolpur	26	17	0	0	0	0	0	0	0	0	0	0	2	6000	2	20000	26000
4	Bahuchara	26	23	0	0	1	20000	1	25000	0	0	0	0	2	6000	2	20000	71000
5	Bansupur	16	8	0	0	0	0	0	0	0	0	0	0	1	3000	1	10000	13000
6	Barista	15	7	0	0	1	20000	0	0	0	0	1	20000	1	3000	1	10000	53000
7	Basupur	22	2	0	0	0	0	0	0	0	0	0	0	1	3000	2	20000	23000
8	Bhuwalpur	10	17	0	0	1	20000	1	25000	0	0	0	0	1	3000	1	10000	58000
9	Bojhwa	25	3	0	0	0	0	0	0	0	0	0	0	2	6000	2	20000	26000
10	Chaemar Saraiya	21	8	0	0	0	0	0	0	0	0	0	0	1	3000	2	20000	23000
11	Dadu Puran Singh	27	69	1	20000	0	0	1	25000	1	3500	0	0	2	6000	2	20000	74500
12	Dekahi	16	31	0	0	1	20000	0	0	0	0	0	0	1	3000	1	10000	33000
13	Deoli	24	20	0	0	0	0	0	0	0	0	0	0	2	6000	2	20000	26000
14	Gadwara	32	24	0	0	0	0	1	25000	0	0	0	0	3	9000	3	30000	64000
15	Gahri	37	5	0	0	0	0	0	0	0	0	0	0	3	9000	3	30000	39000
16	Gaura Dand	29	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Gazi Mahubavan	21	1	0	0	0	0	0	0	0	0	0	0	1	3000	3	30000	33000
18	Gharaura	11	56	0	0	1	20000	0	0	0	0	0	0	1	3000	2	20000	43000
19	Handaur	56	75	1	20000	0	0	1	25000	1	3500	0	0	4	12000	5	50000	110500
20	Hariherpur Kailha	30	22	0	0	0	0	1	25000	0	0	0	0	2	6000	3	30000	61000
21	Kataka Bali	34	25	0	0	0	0	0	0	0	0	1	20000	2	6000	3	30000	56000
22	Kharagpur	26	34	0	0	1	20000	0	0	0	0	0	0	2	6000	2	20000	46000
23	Kodra Madupur	35	189	2	40000	0	0	0	0	0	0	1	20000	2	6000	3	30000	96000
24	Kodra Mangolpur	23	12	0	0	0	0	0	0	0	0	1	20000	1	3000	2	20000	43000
25	Kotya Newada	31	67	1	20000	0	0	1	25000	0	0	0	0	2	6000	3	30000	81000
26	Lilapur	22	16	0	0	0	0	0	0	0	0	1	20000	1	3000	2	20000	43000

Sl. No.	Name of G.P.	No. of BPL families	No. of Landless families	Farm based activities														Total Rs
				Goat rearing (4F+1M goats /unit) @20000		Poultry @20000		Solar drier - Aonla with panel (Capacity 25-50kg)@25000		Backyard poultry @3500		piggary(5F+1M Unit) @20000		seed replacement (SRR) @3000		Low plastic tunnels Nursery @10000		
				No.s	Amount (Rs)	No.s	Amount (Rs)	No.s	Amount (Rs)	No.s	Amount (Rs)	No.s	Amount (Rs)	No.s	Amount (Rs)	No.s	Amount (Rs)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
27	Makaipur	28	34	0	0	1	20000	1	25000	0	0	0	0	2	6000	2	20000	71000
28	Mavaiya Kala	27	8	0	0	0	0	0	0	1	3500	0	0	2	6000	2	20000	29500
29	Multanipur	38	17	0	0	0	0	1	25000	1	3500	1	20000	2	6000	3	30000	84500
30	Nevada Kala	23	3	0	0	1	20000	0	0	0	0	0	0	1	3000	2	20000	43000
31	Paharpur	60	14	1	20000	1	20000	0	0	1	3500	0	0	4	12000	5	50000	105500
32	Pure Khusai	7	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	Rampur Khajur	22	13	0	0	0	0	1	25000	0	0	0	0	1	3000	2	20000	48000
34	Rampur Pran	21	44	0	0	1	20000	0	0	0	0	0	0	1	3000	3	30000	53000
35	Rasulpur Gulraha	27	20	0	0	0	0	0	0	0	0	0	0	2	6000	2	20000	26000
36	Sagra Sundarpur	69	60	1	20000	0	0	0	0	1	3500	0	0	4	12000	6	60000	95500
37	Sakrauli	28	6	0	0	0	0	0	0	0	0	0	0	2	6000	2	20000	26000
38	Sangrampur Kila	29	21	0	0	0	0	0	0	0	0	1	20000	2	6000	2	20000	46000
39	Shivrajpur	34	43	1	20000	0	0	1	25000	0	0	0	0	2	6000	3	30000	81000
40	Sondwa Duban	28	19	0	0	0	0	1	25000	0	0	0	0	2	6000	2	20000	51000
41	Tej Garh	22	3	0	0	0	0	0	0	0	0	1	20000	2	6000	2	20000	46000
42	Teliyahi	26	51	1	20000	2	40000	0	0	0	0	0	0	2	6000	2	20000	86000
43	Tilauri	26	23	0	0	2	40000	1	25000	0	0	0	0	2	6000	2	20000	91000
44	Tina	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	Trlokpur Visai	78	269	2	40000	0	0	0	0	1	3500	0	0	5	15000	8	80000	138500
	Total	1332	1532	12	240000	14	280000	14	350000	8	28000	8	160000	85	255000	112	1120000	2433000

6.11 Soil and water conservation work under NRM

6.11.1 Detail dimensions of soil and water conservation works under NRM

Sl. No.	Name of Grampanchayat	Treatable area (ha)	farmers families	no. of villages	Masonry Check dam		Fodder development on field bund		Contour Bunding		Peripheral Bunding		Renovation of ponds (No.s)	Renovation of FB in meter @200mtr per farmer (No.s)	Silvi Pasture (ha)
					No.s	Length @25m	No.s	Length @250 Rmt per farmer in 1 acr land	Length in Rmt (900 per ha)	Volume of CB = Length *Cross sectional area @0.81 m ²	Length @100mtr for two parallel bund	Volume of PB = Length *Cross sectional area @1.35 m ²			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Ajgra	79.76	1121	2	0	0	561	140250	1800	1458	100	135	0	13	24.95
2	Badhani	171.05	436	2	1	25	218	54500	3600	2916	200	270	1	5	28.4
3	Bahlolpur	177.03	355	2	1	25	178	44500	3600	2916	200	270	1	4	0
4	Bahuchara	224.46	355	1	1	25	178	44500	4500	3645	300	405	1	4	0
5	Bansupur	81.24	226	1	0	0	113	28250	1800	1458	100	135	0	3	0
6	Barista	80.23	214	1	0	0	107	26750	1800	1458	100	135	0	3	9.93
7	Basupur	112.01	310	2	1	25	155	38750	2700	2187	100	135	0	4	0
8	Bhuwalpur	136.16	132	1	1	25	66	16500	2700	2187	200	270	1	2	17.93
9	Bojhwa	103.69	362	2	1	25	181	45250	2700	2187	100	135	0	4	0
10	Chaemar Saraiya	176.04	289	1	1	25	145	36250	3600	2916	200	270	1	3	0
11	Dadu Puran Singh	177.54	322	1	1	25	161	40250	3600	2916	200	270	1	4	3.72
12	Dekahi	14.9	204	1	0	0	102	25500	0	0	0	0	0	2	0
13	Deoli	337.5	323	1	1	25	162	40500	7200	5832	400	540	1	4	3.41
14	Gadwara	39.63	435	1	0	0	218	54500	900	729	0	0	0	5	1.61
15	Gahri	146.4	523	3	1	25	262	65500	3600	2916	200	270	1	6	0
16	Gaura Dand	0.07	380	1	0	0	0	0	0	0	0	0	0	0	0
17	Gazi Mahubavan	177.32	296	1	1	25	148	37000	3600	2916	200	270	1	3	0
18	Gharaura	179.74	207	1	1	25	104	26000	3600	2916	200	270	1	2	20.64
19	Handaur	40.41	732	1	0	0	366	91500	900	729	0	0	0	9	0
20	Hariherpur Kailha	89.81	286	2	0	0	143	35750	1800	1458	100	135	0	3	3.59
21	Kataka Bali	263.93	461	2	1	25	231	57750	5400	4374	300	405	1	5	0.06
22	Kharagpur	140.83	335	1	1	25	168	42000	2700	2187	200	270	1	4	1.11
23	Kodra Madupur	144.77	457	1	1	25	229	57250	3600	2916	200	270	1	5	0
24	Kodra Mangolpur	5.57	312	1	0	0	156	39000	0	0	0	0	0	4	0
25	Kotya Newada	184.82	180	1	1	25	90	22500	3600	2916	200	270	1	2	0

Sl. No.	Name of Grampanchayat	Treatable area (ha)	farmers families	no. of villages	Masonry Check dam		Fodder development on field bund		Contour Bunding		Peripheral Bunding		Renovation of ponds (No.s)	Renovation of FB in meter @200mtr per farmer (No.s)	Silvi Pasture (ha)
					No.s	Length @25m	No.s	Length @250 Rmt per farmer in 1 acr land	Length in Rmt (900 per ha)	Volume of CB = Length *Cross sectional area @0.81 m ²	Length @100mtr for two parallel bund	Volume of PB = Length *Cross sectional area @1.35 m ²			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
26	Lilapur	25.68	305	1	0	0	153	38250	900	729	0	0	0	4	0
27	Makaipur	163.03	363	1	1	25	182	45500	3600	2916	200	270	1	4	6.54
28	Mavaiya Kala	94.11	374	2	1	25	187	46750	1800	1458	100	135	0	4	0
29	Multanipur	103.05	533	2	1	25	267	66750	2700	2187	100	135	0	6	0
30	Nevada Kala	237.92	330	2	1	25	165	41250	5400	4374	300	405	1	4	7.6
31	Paharpur	36.16	840	2	0	0	420	105000	900	729	0	0	0	10	0.69
32	Pure Khusai	0.13	67	1	0	0	0	0	0	0	0	0	0	0	0
33	Rampur Khajur	24.47	298	2	0	0	149	37250	900	729	0	0	0	4	1.24
34	Rampur Pran	74.15	250	3	0	0	125	31250	1800	1458	100	135	0	3	7.53
35	Rasulpur Gulraha	14.44	373	3	0	0	187	46750	0	0	0	0	0	4	0
36	Sagra Sundarpur	115.85	926	2	1	25	463	115750	2700	2187	100	135	0	11	0
37	Sakrauli	203.31	387	2	1	25	194	48500	4500	3645	200	270	1	5	4.98
38	Sangrapur Kila	179	397	2	1	25	199	49750	3600	2916	200	270	1	5	4.05
39	Shivrajpur	70.65	444	1	0	0	222	55500	1800	1458	100	135	0	5	17.89
40	Sondwa Duban	286.11	380	3	1	25	190	47500	6300	5103	300	405	1	4	0
41	Tej Garh	22.57	301	2	0	0	151	37750	900	729	0	0	0	4	0
42	Teliyahi	208.71	321	1	1	25	161	40250	4500	3645	300	405	1	4	8.04
43	Tilauri	168.19	340	3	1	25	170	42500	3600	2916	200	270	1	4	5.03
44	Tina	2.28	130	1	0	0	0	0	0	0	0	0	0	0	0
45	Trlokpur Visai	130.28	509	2	1	25	255	63750	2700	2187	200	270	0	6	0
Total		5445	17121	72	27	675	8282	2070500	117900	95499	6200	8370	21	194	178.94

6.11.2 Cost of Soil and water conservation works under NRM

Sl. No.	Name of Grampanchayat	Masonry Check dam	Fodder development on field bund	Contour Bunding	Periphera l Bunding	Rennovati on of pond	Renovation of FB in meter @200mtr per farmer (75% by MGNREGA)	Silvi Pasture	Grand total Rs	Cost from MGNREGA	IWMP	Renovation of FB in meter @200mtr per farmer (25% to be born by farmers)
		Cost @Rs 850,000	Cost @Rs. 5/Rmtr	Cost @ 67 m ³	Cost @ 67 m ³	Amount in Rs	Cost (Rs.) 0.81m3/m, Rs.67/m3, 75% (Rs. 8141)	cost @Rs. 20,000/ha (Rs.)				Cost (Rs.) 0.81m3/m, Rs.67/m3 @2714
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Ajgra	0	701250	97686	9045	0	105833	499000	1412814	1412814	0	35282
2	Badhani	850000	272500	195372	18090	650000	40705	568000	2594667	1094667	1500000	13570
3	Bahoolpur	850000	222500	195372	18090	650000	32564	0	1968526	468526	1500000	10856
4	Bahuchara	850000	222500	244215	27135	650000	32564	0	2026414	526414	1500000	10856
5	Bansupur	0	141250	97686	9045	0	24423	0	272404	272404	0	8142
6	Barista	0	133750	97686	9045	0	24423	198600	463504	463504	0	8142
7	Basupur	850000	193750	146529	9045	0	32564	0	1231888	381888	850000	10856
8	Bhuwalpur	850000	82500	146529	18090	650000	16282	358600	2122001	622001	1500000	5428
9	Bojhwa	850000	226250	146529	9045	0	32564	0	1264388	414388	850000	10856
10	Chaemar Saraiya	850000	181250	195372	18090	650000	24423	0	1919135	419135	1500000	8142
11	Dadu Puran Singh	850000	201250	195372	18090	650000	32564	74400	2021676	521676	1500000	10856
12	Dekahi	0	127500	0	0	0	16282	0	143782	143782	0	5428
13	Deoli	850000	202500	390744	36180	650000	32564	68200	2230188	730188	1500000	10856
14	Gadwara	0	272500	48843	0	0	40705	32200	394248	394248	0	13570
15	Gahri	850000	327500	195372	18090	650000	48846	0	2089808	589808	1500000	16284
16	Gaura Dand	0	0	0	0	0	0	0	0	0	0	0
17	Gazi Mahubavan	850000	185000	195372	18090	650000	24423	0	1922885	422885	1500000	8142
18	Gharaura	850000	130000	195372	18090	650000	16282	412800	2272544	772544	1500000	5428
19	Handaur	0	457500	48843	0	0	73269	0	579612	579612	0	24426
20	Hariherpur Kailha	0	178750	97686	9045	0	24423	71800	381704	381704	0	8142
21	Kataka Bali	850000	288750	293058	27135	650000	40705	1200	2150848	650848	1500000	13570
22	Kharagpur	850000	210000	146529	18090	650000	32564	22200	1929383	429383	1500000	10856
23	Kodra Madupur	850000	286250	195372	18090	650000	40705	0	2040417	540417	1500000	13570
24	Kodra Mangolpur	0	195000	0	0	0	32564	0	227564	227564	0	10856
25	Kotya Newada	850000	112500	195372	18090	650000	16282	0	1842244	342244	1500000	5428
26	Lilapur	0	191250	48843	0	0	32564	0	272657	272657	0	10856

Sl. No.	Name of Grampanchayat	Masonary Check dam	Fodder development on field bund	Contour Bunding	Periphera l Bunding	Rennovati on of pond	Renovation of FB in meter @200mtr per farmer (75% by MGNREGA)	Silvi Pasture	Grand total Rs	Cost from MGNREGA	IWMP	Renovation of FB in meter @200mtr per farmer (25% to be born by farmers)
		Cost @Rs 850,000	Cost @Rs. 5/Rmtr	Cost @ 67 m ³	Cost @ 67 m ³	Amount in Rs	Cost (Rs.) 0.81m3/m, Rs.67/m3, 75% (Rs. 8141)	cost @Rs. 20,000/ha (Rs.)				Cost (Rs.) 0.81m3/m, Rs.67/m3 @2714
1	2	3	4	5	6	7	8	9	10	11	12	13
27	Makaipur	850000	227500	195372	18090	650000	32564	130800	2104326	604326	1500000	10856
28	Mavaiya Kala	850000	233750	97686	9045	0	32564	0	1223045	373045	850000	10856
29	Multanipur	850000	333750	146529	9045	0	48846	0	1388170	538170	850000	16284
30	Nevada Kala	850000	206250	293058	27135	650000	32564	152000	2211007	711007	1500000	10856
31	Paharpur	0	525000	48843	0	0	81410	13800	669053	669053	0	27140
32	Pure Khusai	0	0	0	0	0	0	0	0	0	0	0
33	Rampur Khajur	0	186250	48843	0	0	32564	24800	292457	292457	0	10856
34	Rampur Pran	0	156250	97686	9045	0	24423	150600	438004	438004	0	8142
35	Rasulpur Gulraha	0	233750	0	0	0	32564	0	266314	266314	0	10856
36	Sagra Sundarpur	850000	578750	146529	9045	0	89551	0	1673875	823875	850000	29854
37	Sakrauli	850000	242500	244215	18090	650000	40705	99600	2145110	645110	1500000	13570
38	Sangrampur Kila	850000	248750	195372	18090	650000	40705	81000	2083917	583917	1500000	13570
39	Shivrajpur	0	277500	97686	9045	0	40705	357800	782736	782736	0	13570
40	Sondwa Duban	850000	237500	341901	27135	650000	32564	0	2139100	639100	1500000	10856
41	Tej Garh	0	188750	48843	0	0	32564	0	270157	270157	0	10856
42	Teliyahi	850000	201250	244215	27135	650000	32564	160800	2165964	665964	1500000	10856
43	Tilauri	850000	212500	195372	18090	650000	32564	100600	2059126	559126	1500000	10856
44	Tina	0	0	0	0	0	0	0	0	0	0	0
45	Trlokpur Visai	850000	318750	146529	18090	0	48846	0	1382215	532215	850000	16284
Total		22950000	10352500	6398433	560790	13650000	1579354	3578800	59069877	22469877	36,600,000	526,516

6.12 Gram Panchayat wise proposed EPA activities

Sl. No.	Name of Grampanchayat	Treatable area (ha)	No of Total families	No. of villages	Vegetable seed packet distribution for backyard garden		New Pond in community land (approx. 0.25ha)		EPA Fodder on field bund of BPL families		Total amount (Rs.)
					No.s	Amount @Rs150/packet*	No.s	Amount (Rs.) @275,000	No.s	Amount in Rs @1250	
1	2	3	4	5	6	7	8	9	10	11	12
1	Ajgra	79.76	1202	2	141	21150	0	0	18	22500	43650
2	Badhani	171.05	442	2	52	7800	0	0	7	8750	16550
3	Bahloolpur	177.03	372	2	44	6600	0	0	6	7500	14100
4	Bahuchara	224.46	378	1	45	6750	0	0	6	7500	14250
5	Bansupur	81.24	234	1	28	4200	1	275000	4	5000	284200
6	Barista	80.23	221	1	26	3900	0	0	3	3750	7650
7	Basupur	112.01	312	2	37	5550	0	0	5	6250	11800
8	Bhuwalpur	136.16	149	1	18	2700	0	0	2	2500	5200
9	Bojhwa	103.69	365	2	43	6450	1	275000	5	6250	287700
10	Chaemar Saraiya	176.04	297	1	35	5250	0	0	4	5000	10250
11	Dadu Puran Singh	177.54	391	1	46	6900	0	0	6	7500	14400
12	Dekahi	14.90	235	1	28	4200	0	0	4	5000	9200
13	Deoli	337.50	343	1	51	7650	0	0	5	6250	13900
14	Gadwara	39.63	459	1	64	9600	0	0	10	12500	22100
15	Gahri	146.40	528	3	72	10800	0	0	11	13750	24550
16	Gaura Dand	0.07	412	1	0	0	0	0	0	0	0
17	Gazi Mahubavan	177.32	297	1	45	6750	1	275000	4	5000	286750
18	Gharaura	179.74	263	1	40	6000		0	4	5000	11000
19	Handaur	40.41	807	1	95	14250	0	0	12	15000	29250
20	Hariherpur Kailha	89.81	308	2	36	5400		0	5	6250	11650
21	Kataka Bali	263.93	486	2	57	8550	1	275000	7	8750	292300
22	Kharagpur	140.83	369	1	44	6600	0	0	6	7500	14100
23	Kodra Madupur	144.77	646	1	76	11400	0	0	10	12500	23900
24	Kodra Mangolpur	5.57	324	1	38	5700	0	0	5	6250	11950
25	Kotya Newada	184.82	247	1	29	4350	0	0	4	5000	9350
26	Lilapur	25.68	321	1	38	5700	0	0	5	6250	11950
27	Makaipur	163.03	397	1	47	7050	1	275000	6	7500	289550
28	Mavaiya Kala	94.11	382	2	45	6750	0	0	6	7500	14250
29	Multanipur	103.05	550	2	65	9750	0	0	8	10000	19750
30	Nevada Kala	237.92	333	2	39	5850	0	0	5	6250	12100

Sl. No.	Name of Grampanchayat	Treatable area (ha)	No of Total families	No. of villages	Vegetable seed packet distribution for backyard garden		New Pond in community land (approx. 0.25ha)		EPA Fodder on field bund of BPL families		Total amount (Rs.)
					No.s	Amount @Rs150/packet*	No.s	Amount (Rs.) @275,000	No.s	Amount in Rs @1250	
1	2	3	4	5	6	7	8	9	10	11	12
31	Paharpur	36.16	854	2	112	16800	0	0	13	16250	33050
32	Pure Khusai	0.13	100	1	0	0	0	0	0	0	0
33	Rampur Khajur	24.47	311	2	37	5550	0	0	7	8750	14300
34	Rampur Pran	74.15	294	3	35	5250	0	0	4	5000	10250
35	Rasulpur Gulraha	14.44	393	3	46	6900	0	0	6	7500	14400
36	Sagra Sundarpur	115.85	986	2	116	17400	1	275000	15	18750	311150
37	Sakrauli	203.31	393	2	46	6900	0	0	6	7500	14400
38	Sangrampur Kila	179.00	418	2	49	7350	0	0	6	7500	14850
39	Shivrajpur	70.65	487	1	57	8550	0	0	7	8750	17300
40	Sondwa Duban	286.11	399	3	47	7050	1	275000	6	7500	289550
41	Tej Garh	22.57	304	2	36	5400	0	0	5	6250	11650
42	Teliyahi	208.71	372	1	44	6600	0	0	6	7500	14100
43	Tilauri	168.19	363	3	49	7350	0	0	7	8750	16100
44	Tina	2.28	131	1	0	0	0	0	0	0	0
45	Trlokpur Visai	130.28	778	2	101	15150	0	0	12	15000	30150
Total		5445	18653	72	2199	329850	7	1925000	283	353,750	2,608,600

* for the plot of 200sq.ft

Chapter: 7 Benefit and cost

7.1 Net benefit

7.1.1 Present and proposed net benefit from cropping system

Sl. No.	Name of Gram Panchayat	Present value, Rs [1]			Proposed value, Rs. [2]			Total Value, Rs		Production cost, Rs.		Present profit, Rs	Proposed profit, Rs	Net profit, Rs
		Kharif	Rabi	Zaid	Kharif	Rabi	Zaid	Present	Proposed	Present [3]	Proposed [4]			
1	2	3	4	5	6	7	8	9	10	11	12	14	15	16
1	Ajgra	1224700	1807200	536790	1668654	2560802	760631	3568690	4990087	3224460	4191798	344230	798289	454059
2	Badhani	3124280	4613600	1366770	4256832	6537471	1936713	9104650	12731016	8226460	10694398	878190	2036618	1158428
3	Bahoolpur	2650310	3913200	1158840	3611047	5545004	1642076	7722350	10798127	6977470	9070711	744880	1727416	982536
4	Bahuchara	2683980	3963200	1174500	3656923	5615854	1664267	7821680	10937044	7067240	9187412	754440	1749632	995192
5	Bansupur	1842600	2721200	807360	2510543	3855940	1144029	5371160	7510512	4853110	6309043	518050	1201469	683419
6	Barista	1121840	1656000	491550	1528507	2346552	696526	3269390	4571585	2954040	3840252	315350	731333	415983
7	Basupur	1948420	2876800	852600	2654722	4076426	1208134	5677820	7939282	5130160	6669208	547660	1270074	722414
8	Bhuwalpur	1509230	2228400	660330	2056326	3157643	935688	4397960	6149657	3973750	5165875	424210	983782	559572
9	Bojhwa	2040180	3012400	892620	2779745	4268571	1264843	5945200	8313159	5371750	6983275	573450	1329884	756434
10	Chaemar Saraiya	3119470	4606400	1365030	4250278	6527269	1934248	9090900	12711795	8214040	10678252	876860	2033543	1156683
11	Dadu Puran Singh	2608500	3851200	1141440	3554081	5457150	1617420	7601140	10628651	6867960	8928348	733180	1700303	967123
12	Dekahi	350390	516800	154860	477406	732306	219437	1022050	1429149	923480	1200524	98570	228625	130055
13	Deoli	4977980	7351600	2176740	6782498	10417217	3084441	14506320	20284156	13107110	17039243	1399210	3244913	1845703
14	Gadwara	794390	1172000	348000	1082356	1660724	493116	2314390	3236196	2091140	2718482	223250	517714	294464
15	Gahri	3010320	4445600	1318050	4101561	6299415	1867677	8773970	12268653	7927700	10306010	846270	1962643	1116373
16	Gaura Dand	2960	4000	3480	4033	5668	4931	10440	14632	9460	12298	980	2334	1354
17	Gazi Mahubavan	1751210	2586400	766470	2386024	3664929	1086088	5104080	7137041	4611780	5995314	492300	1141727	649427
18	Gharaura	2375400	3507200	1039650	3236483	4969702	1473184	6922250	9679369	6254560	8130928	667690	1548441	880751
19	Handaur	949050	1400800	415860	1293081	1984934	589274	2765710	3867289	2498940	3248622	266770	618667	351897
20	Hariherpur Kailha	1431160	2114000	626400	1949956	2995538	887609	4171560	5833103	3769210	4899973	402350	933130	530780
21	Kataka Bali	3742180	5525600	1637340	5098720	7829775	2320111	10905120	15248606	9853260	12809238	1051860	2439368	1387508
22	Kharagpur	2322120	3429200	1015290	3163889	4859176	1438666	6766610	9461731	6113930	7948109	652680	1513622	860942
23	Kodra Madupur	2359490	3484400	1032690	3214805	4937395	1463322	6876580	9615522	6213310	8077303	663270	1538219	874949
24	Kodra Mangolpur	115070	169600	51330	156783	240323	72735	336000	469841	303600	394680	32400	75161	42761
25	Kotyia Newada	3036960	4484400	1328490	4137858	6354395	1882470	8849850	12374723	7996230	10395099	853620	1979624	1126004

Sl. No.	Name of Gram Panchayat	Present value, Rs [1]			Proposed value, Rs. [2]			Total Value, Rs		Production cost, Rs.		Present profit, Rs	Proposed profit, Rs	Net profit, Rs
		Kharif	Rabi	Zaid	Kharif	Rabi	Zaid	Present	Proposed	Present [3]	Proposed [4]			
1	2	3	4	5	6	7	8	9	10	11	12	14	15	16
26	Lilapur	396640	584800	174000	540422	828662	246558	1155440	1615642	1043980	1357174	111460	258468	147008
27	Makaipur	2025380	2990400	886530	2759580	4237397	1256213	5902310	8253190	5333000	6932900	569310	1320290	750980
28	Mavaiya Kala	1910680	2821600	836070	2603302	3998207	1184711	5568350	7786220	5031260	6540638	537090	1245582	708492
29	Multanipur	1843340	2722400	807360	2511551	3857641	1144029	5373100	7513221	4854860	6311318	518240	1201903	683663
30	Nevada Kala	4341950	6411600	1899210	5915907	9085237	2691181	12652760	17692325	11432330	14862029	1220430	2830296	1609866
31	Paharpur	409590	604400	180090	558066	856435	255188	1194080	1669689	1078910	1402583	115170	267106	151936
32	Pure Khusai	4070	6000	3480	5545	8502	4931	13550	18978	12270	15951	1280	3027	1747
33	Rampur Khajur	360010	530400	158340	490514	751577	224368	1048750	1466459	947580	1231854	101170	234605	133435
34	Rampur Pran	1510710	2230800	662070	2058342	3161044	938153	4403580	6157539	3978850	5172505	424730	985034	560304
35	Rasulpur Gulraha	215340	317600	94830	293401	450039	134374	627770	877814	567220	737386	60550	140428	79878
36	Sagra Sundarpur	2036480	3007200	891750	2774704	4261202	1263610	5935430	8299516	5362940	6971822	572490	1327694	755204
37	Sakrauli	3082470	4552400	1347630	4199865	6450751	1909592	8982500	12560208	8116090	10550917	866410	2009291	1142881
38	Sangrampur Kila	3269690	4828400	1430280	4454953	6841843	2026707	9528370	13323503	8609310	11192103	919060	2131400	1212340
39	Shivrajpur	1234320	1822400	541140	1681761	2582341	766795	3597860	5030897	3250840	4226092	347020	804805	457785
40	Sondwa Duban	3688900	5446800	1613850	5026126	7718116	2286825	10749550	15031067	9712690	12626497	1036860	2404570	1367710
41	Tej Garh	247530	364800	110490	337260	516922	156564	722820	1010746	653120	849056	69700	161690	91990
42	Teliyahi	2736150	4040400	1197120	3728004	5725247	1696319	7973670	11149570	7204570	9365941	769100	1783629	1014529
43	Tilauri	1913640	2825600	837810	2607335	4003875	1187177	5577050	7798387	5039120	6550856	537930	1247531	709601
44	Tina	54760	80800	26100	74611	114494	36984	161660	226089	146100	189930	15560	36159	20599
45	Trlokpur Visai	1929550	2849600	844770	2629012	4037883	1197039	5623920	7863934	5081480	6605924	542440	1258010	715570
	Total	84303390	124479600	36905400	114863372	176387594	52294954	245688390	343545920	221990670	288587871	23697720	54958049	31260329

[1] Average production value for all Kharif crops is Rs. 37000/ha, Rabi crops @Rs. 41000/ha and Zaid crops @Rs.87000/ha per annum. Refer Annexure I for detail calculations.

[2] Expected increment in production is 25%, 30% and 35% respectively in Kharif, Rabi and Zaid season.

[3] Average production cost is Rs.32000/ha, Rs.37000/ha and Rs.80000/ha for Kharif, Rabi and Zaid season respectively. Refer Annexure I for detail calculations.

[4] Expected rise of 30% in production cost.

7.1.2 Present and proposed production and value of horticulture system

S. N.	Name of Grampanchayat	Aonla Rejuvenation						Guava high density						Citrus						Horti-system innovation cost in Rs	profit		
		Proposed cost @ Rs 20000/ha	Present production @ 8t/ha	Additional proposed production @ 15 t/ha	Total proposed production, t	Present value @ Rs 20000/t	Proposed value in Rs	Proposed cost @ Rs 63,000/ha	Present production @ 9t/ha	Additional proposed production @ 30t/ha	Total proposed production, t	Present value @ Rs 10000/t	Proposed value in Rs	Proposed cost @ Rs 19000/ha	Present production @ 8t/ha	Additional proposed production @ 15 t/ha	Total proposed production, t	Present value @ Rs 20000/t	Proposed value in Rs		Present value in Rs	Proposed value in Rs	Profit in Rs
1	Ajgra	2600	0	1.95	1.95	0	39000	3780	0	1.8	1.8	0	18000	7600	0	6	6	0	12000	13980	0	16302	16302
2	Badhani	5600	0	4.2	4.2	0	84000	8820	0	4.2	4.2	0	42000	16340	0	12.9	12.9	0	25800	30760	0	35324	35324
3	Bahoolpur	58400	46.64	43.8	90.44	932800	1808800	39690	22.59	18.9	41.49	225900	414900	22800	5.04	18	23.04	100800	460800	120890	1259500	2563610	1304110
4	Bahuchara	26400	0	19.8	19.8	0	396000	41580	0	19.8	19.8	0	198000	21280	0	16.8	16.8	0	336000	89260	0	84074	84074
5	Bansapur	200	0	0.15	0.15	0	3000	630	0	0.3	0.3	0	3000	7790	0	6.15	6.15	0	12300	8620	0	12038	12038
6	Barista	7000	0	5.25	5.25	0	105000	10710	0	5.1	5.1	0	51000	7600	0	6	6	0	12000	25310	0	25069	25069
7	Basapur	8600	0	6.45	6.45	0	129000	13860	0	6.6	6.6	0	66000	10640	0	8.4	8.4	0	168000	33100	0	32990	32990
8	Bhuwalpur	16600	0	12.45	12.45	0	249000	25830	0	12.3	12.3	0	123000	12920	0	10.2	10.2	0	204000	55350	0	52065	52065
9	Bojhwa	4800	0	3.6	3.6	0	72000	7560	0	3.6	3.6	0	36000	9880	0	7.8	7.8	0	156000	22240	0	24176	24176
10	Chaemar Saraiya	12800	0	9.6	9.6	0	192000	20160	0	9.6	9.6	0	96000	16720	0	13.2	13.2	0	264000	49680	0	50232	50232
11	Dadu Pura Singh	19800	0	14.85	14.85	0	297000	31500	0	15	15	0	150000	16910	0	13.35	13.35	0	267000	68210	0	64579	64579
12	Dekahi	0	0	0	0	0	0	0	0	0	0	0	0	1330	0	1.05	1.05	0	21000	1330	0	19670	19670
13	Deoli	36400	0	27.3	27.3	0	546000	57330	0	27.3	27.3	0	273000	32110	0	25.35	25.35	0	507000	125840	0	1200160	1200160
14	Gadwara	1800	0	1.35	1.35	0	27000	2520	0	1.2	1.2	0	12000	3800	0	3	3	0	60000	8120	0	90880	90880
15	Gahri	5800	0	4.35	4.35	0	87000	8820	0	4.2	4.2	0	42000	13870	0	10.95	10.95	0	219000	28490	0	31951	31951
16	Gaura Dand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

S · N ·	Name of Grampanchayat	Aonla Rejuvenation						Guava high density						Citrus						Horti-system innovation cost in Rs	profit		
		Proposed cost @ Rs 20000/ha	Present production @ 8t/ha	Additionl proposed production @ 15 t/ha	Total p-roposed production , t	Pres ent value @ Rs 2000 0/t	Prop osed value in Rs	Prop osed cost @ Rs 63,00 0/ha	Present product ion@ 9t/ha	Additi onal propos ed produ ction @ 30t/ha	Total propos ed produ ction in, t	Pres ent valu e @ Rs 1000 0/t	Prop osed value in Rs	Prop osed cost @ Rs 19000 /ha	Present product ion@ 8t/ha	Additi onal propos ed produ ction @ 15 t/ha	Total p-ropose d produ ction , t	Pres ent valu e @ Rs 2000 0/t	Prop osed value in Rs		Pres ent valu e in Rs	Prop osed value in Rs	Propf it in Rs
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
17	Gazi Mahubavan	57800	46.16	43.35	89.51	923200	1790200	39060	22.41	18.6	41.01	224100	410100	22800	4.96	18	22.96	99200	459200	119660	1246500	2539840	1293340
18	Gharaura	19000	0	14.25	14.25	0	285000	30240	0	14.4	14.4	0	144000	17100	0	13.5	13.5	0	270000	66340	0	632660	632660
19	Handaur	0	0	0	0	0	0	0	0	0	0	0	0	3800	0	3	3	0	60000	3800	0	56200	56200
20	Hariherpur Kailha	8800	0	6.6	6.6	0	132000	13860	0	6.6	6.6	0	66000	8550	0	6.75	6.75	0	135000	31210	0	301790	301790
21	Kataka Bali	29400	0	22.05	22.05	0	441000	46620	0	22.2	22.2	0	222000	25080	0	19.8	19.8	0	396000	101100	0	957900	957900
22	Kharagpur	10400	0	7.8	7.8	0	156000	16380	0	7.8	7.8	0	78000	13300	0	10.5	10.5	0	210000	40080	0	403920	403920
23	Kodra Madupur	13600	0	10.2	10.2	0	204000	21420	0	10.2	10.2	0	102000	13680	0	10.8	10.8	0	216000	48700	0	473300	473300
24	Kodra Mangolpur	200	0	0.15	0.15	0	3000	630	0	0.3	0.3	0	3000	570	0	0.45	0.45	0	9000	1400	0	13600	13600
25	Koty Newada	60400	48.24	45.3	93.54	964800	1870800	40950	23.4	19.5	42.9	234000	429000	23750	5.2	18.75	23.95	104000	479000	125100	1302800	2653700	1350900
26	Lilapur	2400	0	1.8	1.8	0	36000	3780	0	1.8	1.8	0	18000	2470	0	1.95	1.95	0	39000	8650	0	84350	84350
27	Makaipur	24200	0	18.15	18.15	0	363000	37800	0	18	18	0	180000	15580	0	12.3	12.3	0	246000	77580	0	711420	711420
28	Mavaiya Kala	3800	0	2.85	2.85	0	57000	5670	0	2.7	2.7	0	27000	8930	0	7.05	7.05	0	141000	18400	0	206600	206600
29	Multanipur	13200	10.48	9.9	20.38	209600	407600	8820	5.13	4.2	9.33	51300	93300	11210	1.12	8.85	9.97	224000	199400	33230	283300	667070	383770
30	Nevada Kala	12200	0	9.15	9.15	0	183000	18900	0	9	9	0	90000	22610	0	17.85	17.85	0	357000	53710	0	576290	576290
31	Paharpur	4200	0	3.15	3.15	0	63000	6930	0	3.3	3.3	0	33000	3420	0	2.7	2.7	0	54000	14550	0	135450	135450
32	Pure Khusai	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	Rampur Khajur	1600	0	1.2	1.2	0	24000	2520	0	1.2	1.2	0	12000	2280	0	1.8	1.8	0	36000	6400	0	65600	65600

S · N ·	Name of Grampanchayat	Aonla Rejuvenation						Guava high density						Citrus						Horti-system innovation cost in Rs	profit		
		Proposed cost @ Rs 20000 /ha	Present production @ 8t/ha	Additional proposed production @ 15 t/ha	Total proposed production, t	Present value @ Rs 2000 0/t	Proposed value in Rs	Proposed cost @ Rs 63,000/ha	Present production @ 9t/ha	Additional proposed production @ 30t/ha	Total proposed production in, t	Present value @ Rs 1000 0/t	Proposed value in Rs	Proposed cost @ Rs 19000 /ha	Present production @ 8t/ha	Additional proposed production @ 15 t/ha	Total proposed production, t	Present value @ Rs 2000 0/t	Proposed value in Rs		Present value in Rs	Proposed value in Rs	Profit in Rs
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
34	Rampur Pran	0	0	0	0	0	0	0	0	0	0	0	0	7030	0	5.55	5.55	0	11100	7030	0	10397	10397
35	Rasulpur Gulraha	1000	0	0.75	0.75	0	15000	1890	0	0.9	0.9	0	9000	1330	0	1.05	1.05	0	21000	4220	0	40780	40780
36	Sagra Sundarpur	8000	0	6	6	0	12000	12600	0	6	6	0	60000	11020	0	8.7	8.7	0	17400	31620	0	32238	32238
37	Sakrauli	22600	0	16.95	16.95	0	33900	35910	0	17.1	17.1	0	17100	19380	0	15.3	15.3	0	30600	77890	0	73811	73811
38	Sangrampur Kila	6600	0	4.95	4.95	0	99000	10080	0	4.8	4.8	0	48000	17100	0	13.5	13.5	0	27000	33780	0	38322	38322
39	Shivrajpur	2200	0	1.65	1.65	0	33000	3780	0	1.8	1.8	0	18000	6650	0	5.25	5.25	0	10500	12630	0	14337	14337
40	Sondwa Duban	32600	0	24.45	24.45	0	48900	51030	0	24.3	24.3	0	24300	27170	0	21.45	21.45	0	42900	11080	0	10502	10502
41	Tej Garh	2400	0	1.8	1.8	0	36000	3780	0	1.8	1.8	0	18000	2090	0	1.65	1.65	0	33000	8270	0	78730	78730
42	Teliyahi	27800	0	20.85	20.85	0	41700	44100	0	21	21	0	21000	19760	0	15.6	15.6	0	31200	91660	0	84734	84734
43	Tilauri	24600	0	18.45	18.45	0	36900	38430	0	18.3	18.3	0	18300	15960	0	12.6	12.6	0	25200	78990	0	72501	72501
44	Tina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	Trlokpur Visai	15400	0	11.55	11.55	0	23100	23940	0	11.4	11.4	0	11400	12350	0	9.75	9.75	0	19500	51690	0	48831	48831
	Total	611200	151.52	458.4	609.92	3030400	12198400	791910	73.53	377.1	450.63	735300	4506300	536560	16.32	423.6	439.92	326400	8798400	1939670	4092100	23563430	19471330

7.1.3 Production and Profit from major animal /livestock

S.N	Name of G.P.	Cow	Buffalo	Goat	Poultry	Production value in Rs				Present		Proposed		Profit in Rs		Net Benefits, Rs
						Cows @9000	Buffalo @11000	Goat @900	Poultry @300	Total prduction value	Total prduction cost, Rs	Total production value	Total production cost, Rs	Present production value, Rs	Proposed production value, Rs	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Ajgra	52	55	110	97	520000	660000	99000	29100	1308100	915670	1569720	1098804	392430	470916	78486
2	Badhani	49	61	115	43	490000	732000	103500	12900	1338400	936880	1606080	1124256	401520	481824	80304
3	Bahloolpur	40	181	62	127	400000	2172000	55800	38100	2665900	1866130	3199080	2239356	799770	959724	159954
4	Bahuchara	50	661	28	58	500000	7932000	25200	17400	8474600	5932220	10169520	7118664	2542380	3050856	508476
5	Bansupur	72	219	58	155	720000	2628000	52200	46500	3446700	2412690	4136040	2895228	1034010	1240812	206802
6	Barista	17	22	66	16	170000	264000	59400	4800	498200	348740	597840	418488	149460	179352	29892
7	Basupur	44	55	56	39	440000	660000	50400	11700	1162100	813470	1394520	976164	348630	418356	69726
8	Bhuwalpur	85	106	50	75	850000	1272000	45000	22500	2189500	1532650	2627400	1839180	656850	788220	131370
9	Bojhwa	73	91	90	65	730000	1092000	81000	19500	1922500	1345750	2307000	1614900	576750	692100	115350
10	Chaemar	139	173	100	123	1390000	2076000	90000	36900	3592900	2515030	4311480	3018036	1077870	1293444	215574
11	Dadu Puran	15	11	52	11	150000	132000	46800	3300	332100	232470	398520	278964	99630	119556	19926
12	Dekahi	87	109	328	77	870000	1308000	295200	23100	2496300	1747410	2995560	2096892	748890	898668	149778
13	Deoli	293	62	58	56	2930000	744000	52200	16800	3743000	2620100	4491600	3144120	1122900	1347480	224580
14	Gadwara	102	129	65	91	1020000	1548000	58500	27300	2653800	1857660	3184560	2229192	796140	955368	159228
15	Gahri	81	101	75	82	810000	1212000	67500	24600	2114100	1479870	2536920	1775844	634230	761076	126846
16	Gaura Dand	75	95	91	67	750000	1140000	81900	20100	1992000	1394400	2390400	1673280	597600	717120	119520
17	Gazi	67	83	82	59	670000	996000	73800	17700	1757500	1230250	2109000	1476300	527250	632700	105450
18	Gharaura	70	88	70	62	700000	1056000	63000	18600	1837600	1286320	2205120	1543584	551280	661536	110256
19	Handaur	6	6	21	5	60000	72000	18900	1500	152400	106680	182880	128016	45720	54864	9144
20	Hariherpur	7	9	28	6	70000	108000	25200	1800	205000	143500	246000	172200	61500	73800	12300
21	Kataka Bali	18	227	60	160	180000	2724000	54000	48000	3006000	2104200	3607200	2525040	901800	1082160	180360
22	Kharagpur	17	212	52	55	170000	2544000	46800	16500	2777300	1944110	3332760	2332932	833190	999828	166638
23	Kodra Madupur	3	3	12	3	30000	36000	10800	900	77700	54390	93240	65268	23310	27972	4662
24	Kodra	30	37	112	26	300000	444000	100800	7800	852600	596820	1023120	716184	255780	306936	51156
25	Koty Newada	93	116	54	82	930000	1392000	48600	24600	2395200	1676640	2874240	2011968	718560	862272	143712
26	Lilapur	84	59	50	74	840000	708000	45000	22200	1615200	1130640	1938240	1356768	484560	581472	96912
27	Makaipur	50	60	814	192	500000	720000	732600	57600	2010200	1407140	2412240	1688568	603060	723672	120612
28	Mavaiya Kala	58	62	70	51	580000	744000	63000	15300	1402300	981610	1682760	1177932	420690	504828	84138
29	Multanipur	48	54	112	88	480000	648000	100800	26400	1255200	878640	1506240	1054368	376560	451872	75312
30	Nevada Kala	42	48	120	84	420000	576000	108000	25200	1129200	790440	1355040	948528	338760	406512	67752

S.N	Name of G.P.	Cow	Buffalo	Goat	Poultry	Production value in Rs				Present		Proposed		Profit in Rs		Net Benefits, Rs
						Cows @9000	Buffalo @11000	Goat @900	Poultry @300	Total production value	Total production cost, Rs	Total production value	Total production cost, Rs	Present production value, Rs	Proposed production value, Rs	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
31	Paharpur	43	42	55	30	430000	504000	49500	9000	992500	694750	1191000	833700	297750	357300	59550
32	Pure Khusai	55	44	110	31	550000	528000	99000	9300	1186300	830410	1423560	996492	355890	427068	71178
33	Rampur Khajur	15	356	52	50	150000	4272000	46800	15000	4483800	3138660	5380560	3766392	1345140	1614168	269028
34	Rampur Pran	16	30	115	100	160000	360000	103500	30000	653500	457450	784200	548940	196050	235260	39210
35	Rasulpur	20	45	100	111	200000	540000	90000	33300	863300	604310	1035960	725172	258990	310788	51798
36	Sagra	58	72	58	51	580000	864000	52200	15300	1511500	1058050	1813800	1269660	453450	544140	90690
37	Sakrauli	48	52	55	88	480000	624000	49500	26400	1179900	825930	1415880	991116	353970	424764	70794
38	Sangrampur	42	118	116	84	420000	1416000	104400	25200	1965600	1375920	2358720	1651104	589680	707616	117936
39	Shivrajpur	56	42	128	30	560000	504000	115200	9000	1188200	831740	1425840	998088	356460	427752	71292
40	Sondwa Duban	64	71	112	65	640000	852000	100800	19500	1612300	1128610	1934760	1354332	483690	580428	96738
41	Tej Garh	42	85	59	80	420000	1020000	53100	24000	1517100	1061970	1820520	1274364	455130	546156	91026
42	Teliyahi	58	52	64	54	580000	624000	57600	16200	1277800	894460	1533360	1073352	383340	460008	76668
43	Tilauri	15	65	75	62	150000	780000	67500	18600	1016100	711270	1219320	853524	304830	365796	60966
44	Tina	28	70	110	51	280000	840000	99000	15300	1234300	864010	1481160	1036812	370290	444348	74058
45	Trlokpur Visai	30	59	98	100	300000	708000	88200	30000	1126200	788340	1351440	946008	337860	405432	67572
Total		2457	4398	4368	3116	24570000	52776000	3931200	934800	82212000	57548400	98654400	69058080	24663600	29596320	4,932,720

7.1.4 Net Profit through Various Interventions

Sl. No.	Name of G.P.	Net Profit (Rs)				Yearly System Profit					Total profit in Rs
		Cropping system	Horticulture	Animal Husbandry	Livelihood activities	I	II	III	IV	V	
1	2	3	4	5	6	7	8	9	10	11	12
1	Ajgra	454059	163020	78486	599700	213018	834020	917422	1018338	1303559	4286357
2	Badhani	1158428	353240	80304	114400	495493	659442	725386	805179	1255040	3940540
3	Bahloolpur	982536	1304110	159954	388400	456996	891096	980205	1088028	2522701	5939026
4	Bahuchara	995192	840740	508476	131400	601467	793014	872315	968270	1925202	5160269
5	Bansupur	683419	120380	206802	338200	356088	729897	802887	891205	1118529	3898606
6	Barista	415983	250690	29892	103000	178350	299185	329104	365305	659831	1831775
7	Basupur	722414	329900	69726	96200	316856	444742	489216	543029	938093	2731936
8	Bhuwalpur	559572	520650	131370	134000	276377	438014	481816	534816	1119644	2850666
9	Bojhwa	756434	241760	115350	60400	348714	443985	488383	542106	848918	2672106
10	Chaemar Saraiya	1156683	502320	215574	352200	548903	955993	1051592	1167268	1809660	5533415
11	Dadu Puran Singh	967123	645790	19926	160300	394820	594602	654062	726009	1458920	3828411
12	Dekahi	130055	19670	149778	46200	111933	169327	186259	206748	251227	925494
13	Deoli	1845703	1200160	224580	420400	828113	1331325	1464457	1625547	3020773	8270215
14	Gadwara	294464	90880	159228	153600	181477	353224	388547	431287	573922	1928457
15	Gahri	1116373	319510	126846	118600	497288	665616	732178	812718	1229754	3937553
16	Gaura Dand	1354	0	119520	0	48350	53185	58503	64938	72731	297706
17	Gazi Mahubavan	649427	1293340	105450	107000	301951	439146	483060	536197	1893881	3654235
18	Gharaura	880751	632660	110256	124200	396403	560243	616267	684057	1398804	3655774
19	Handaur	351897	56200	9144	186700	144416	345558	380114	421926	528758	1820772
20	Hariherpur Kailha	530780	301790	12300	469400	217232	708355	779191	864902	1270480	3840160
21	Kataka Bali	1387508	957900	180360	454400	627147	1144262	1258688	1397144	2522701	6949942
22	Kharagpur	860942	403920	166638	96400	411032	548535	603389	669761	1154053	3386770
23	Kodra Madupur	874949	473300	4662	198400	351844	585429	643972	714809	1273886	3569939
24	Kodra Mangolpur	42761	13600	51156	84200	37567	125523	138076	153264	185256	639686
25	Kotya Newada	1126004	1350900	143712	177400	507886	736075	809683	898748	2357497	5309889
26	Lilapur	147008	84350	96912	84200	97568	191525	210677	233852	346264	1079886
27	Makaipur	750980	711420	120612	163400	348637	546900	601591	667765	1459317	3624211
28	Mavaiya Kala	708492	206600	84138	105300	317052	454057	499463	554404	827532	2652508

Sl. No.	Name of G.P.	Net Profit (Rs)				Yearly System Profit					
		Cropping system	Horticulture	Animal Husbandry	Livelihood activities	I	II	III	IV	V	Total profit in Rs
1	2	3	4	5	6	7	8	9	10	11	12
29	Multanipur	683663	383770	75312	174300	303590	508249	559074	620572	1078811	3070296
30	Nevada Kala	1609866	576290	67752	124200	671047	862352	948587	1052932	1755573	5290491
31	Paharpur	151936	135450	59550	179700	84594	272754	300029	333032	508446	1498856
32	Pure Khusai	1747	0	71178	0	29170	32087	35296	39178	43880	179611
33	Rampur Khajur	133435	65600	269028	416000	160985	593084	652392	724155	876654	3007270
34	Rampur Pran	560304	103970	39210	106200	239806	369986	406985	451753	609933	2078463
35	Rasulpur Gulraha	79878	40780	51798	100400	52670	158337	174171	193330	257310	835819
36	Sagra Sundarpur	755204	322380	90690	194500	338358	566693	623363	691933	1097345	3317691
37	Sakrauli	1142881	738110	70794	97200	485470	631217	694339	770716	1601312	4183054
38	Sangrampur Kila	1212340	383220	117936	416400	532110	1001721	1101894	1223102	1753094	5611921
39	Shivrajpur	457785	143370	71292	465400	211631	698194	768013	852495	1098164	3628497
40	Sondwa Duban	1367710	1050200	96738	455400	585779	1099757	1209733	1342803	2554140	6792212
41	Tej Garh	91990	78730	91026	93200	73206	173727	191100	212121	316305	966459
42	Teliyahi	1014529	847340	76668	181200	436479	661327	727459	807480	1751717	4384462
43	Tilauri	709601	725010	60966	159400	308227	498449	548294	608607	1406650	3370227
44	Tina	20599	0	74058	0	37863	41649	45814	50854	56956	233135
45	Trlokpur Visai	715570	488310	67572	289900	313257	634482	697931	774703	1355977	3776351
Total		31260329	19471330	4932720	8921400	14477220	24846342	27330976	30337383	53449199	150441119

7.1.5 Gram Panchayat wise cost of project under IWMP

Gram panchayat wise proposed cost of project from IWMP -Pratapgarh-6															
Sl. No.	Name of Grampanchayat	Total, ha	Treatable area, ha	Administrative (10%)	EPA (4%)	TRG (5%)	DPR (1%)	Work (56%) NRM	Livelihood (9%)		Production system (10%)		ME (2%)	Consolidation (3%)	Total cost in Rs.
									Off-farm	On-farm	Farm machinery	Crop improvement			
1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17
1	Ajgra	130.88	79.76	95712	43650	91000	9572	0	258000	133500	183100	59950	19143	28714	922341
2	Badhani	280.67	171.05	205260	16550	91000	20526	1500000	40000	36000	89000	98500	41052	61578	2199466
3	Bahlolpur	290.49	177.03	212436	14100	91000	21244	1500000	220000	26000	78200	98900	42488	63731	2368099
4	Bahuchara	368.31	224.46	269352	14250	45500	26936	1500000	20000	71000	78200	146750	53871	80806	2306665
5	Bansupur	133.30	81.24	97488	284200	45500	9749	0	200000	13000	45600	59950	19498	29247	804232
6	Barista	131.64	80.23	96276	7650	45500	9628	0	18000	53000	43600	59950	19256	28883	381743
7	Basupur	183.80	112.01	134412	11800	91000	13442	850000	40000	23000	57900	77200	26883	40324	1365961
8	Bhuwalpur	223.42	136.16	163392	5200	45500	16340	1500000	33000	58000	31300	86450	32679	49018	2020879
9	Bojhwa	170.15	103.69	124428	287700	91000	12443	850000	15000	26000	66700	68700	24886	37329	1604186
10	Chaemar Saraiya	288.86	176.04	211248	10250	45500	21125	1500000	200000	23000	74200	98900	42250	63375	2289848
11	Dadu Puran Singh	291.32	177.54	213048	14400	45500	21305	1500000	35000	74500	79700	98900	42610	63915	2188878
12	Dekahi	24.45	14.90	17880	9200	45500	1788	0	0	33000	36900	5350	3576	5364	158558
13	Deoli	553.79	337.50	405000	13900	45500	40500	1500000	240000	26000	95900	224050	81000	121500	2793350
14	Gadwara	65.03	39.63	47556	22100	45500	4756	0	40000	64000	71300	18600	9512	14267	337591
15	Gahri	240.22	146.40	175680	24550	136500	17568	1500000	40000	39000	95800	87250	35136	52704	2204188
16	Gaura Dand	0.11	0.07	0	0	0	0	0	0	0	0	0	0	0	0
17	Gazi Mahubavan	290.96	177.32	212784	286750	91000	21279	1500000	38000	33000	71900	98900	42557	63836	2460006
18	Gharaura	294.93	179.74	215688	11000	45500	21569	1500000	40000	43000	51600	103450	43138	64707	2139652
19	Handaur	66.31	40.41	48492	29250	45500	4850	0	20000	110500	112400	18600	9699	14548	413839
20	Hariherpur Kailha	147.36	89.81	107772	11650	91000	10778	0	240000	61000	54400	64500	21555	32332	694987
21	Kataka Bali	433.08	263.93	316716	292300	91000	31672	1500000	235000	56000	99500	165400	63344	95015	2945947
22	Kharagpur	231.09	140.83	168996	14100	45500	16900	1500000	20000	46000	61200	86850	33800	50699	2044045
23	Kodra Madupur	237.55	144.77	173724	23900	45500	17373	1500000	40000	96000	81000	87250	34745	52118	2151610
24	Kodra Mangolpur	9.15	5.57	6684	11950	45500	669	0	15000	43000	32400	450	1337	2006	158996
25	Kotya Newada	303.26	184.82	221784	9350	45500	22179	1500000	40000	81000	49600	133850	44357	66536	2214156
26	Lilapur	42.14	25.68	30816	11950	45500	3082	0	15000	43000	42900	8800	6164	9245	216457
27	Makaipur	267.50	163.03	195636	289550	45500	19564	1500000	40000	71000	73700	94650	39128	58691	2427419
28	Mavaiya Kala	154.42	94.11	112932	14250	91000	11294	850000	40000	29500	68700	67350	22587	33880	1341493
29	Multanipur	169.09	103.05	123660	19750	91000	12366	850000	35000	84500	91800	68250	24732	37098	1438156
30	Nevada Kala	390.40	237.92	285504	12100	91000	28551	1500000	40000	43000	72700	154600	57101	85652	2370208

Gram panchayat wise proposed cost of project from IWMP -Pratapgarh-6

Sl. No.	Name of Grampanchayat	Total, ha	Treatable area, ha	Administrative (10%)	EPA (4%)	TRG (5%)	DPR (1%)	Work (56%) NRM	Livelihood (9%)		Production system (10%)		ME (2%)	Consolidation (3%)	Total cost in Rs.
									Off-farm	On-farm	Farm machinery	Crop improvement			
1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17
31	Paharpur	59.33	36.16	43392	33050	136500	4340	0	20000	105500	126700	16050	8679	13018	507229
32	Pure Khusai	0.21	0.13	0	0	0	0	0	0	0	0	0	0	0	0
33	Rampur Khajur	40.16	24.47	29364	14300	91000	2937	0	218000	48000	42900	8800	5873	8810	469984
34	Rampur Pran	121.67	74.15	88980	10250	136500	8898	0	20000	53000	48900	56650	17796	26694	467668
35	Rasulpur Gulraha	23.69	14.44	17328	14400	136500	1733	0	40000	26000	55200	5350	3466	5199	305176
36	Sagra Sundarpur	190.09	115.85	139020	311150	91000	13902	850000	38000	95500	152500	78050	27804	41706	1838632
37	Sakrauli	333.60	203.31	243972	14400	91000	24398	1500000	38000	26000	80200	142550	48795	73192	2282507
38	Sangrampur Kila	293.72	179.00	214800	14850	91000	21480	1500000	220000	46000	80200	103000	42960	64440	2398730
39	Shivrajpur	115.93	70.65	84780	17300	45500	8478	0	220000	81000	77500	56200	16956	25434	633148
40	Sondwa Duban	469.47	286.11	343332	289550	136500	34334	1500000	240000	51000	87200	173600	68667	103000	3027183
41	Tej Garh	37.03	22.57	27084	11650	91000	2709	0	18000	46000	42900	8700	5417	8126	261586
42	Teliyahi	342.46	208.71	250452	14100	45500	25046	1500000	38000	86000	71400	142950	50091	75136	2298675
43	Tilauri	275.98	168.19	201828	16100	136500	20183	1500000	20000	91000	72700	98050	40366	60549	2257276
44	Tina	3.73	2.28	0	0	0	0	0	0	0	0	0	0	0	0
45	Trlokpur Visai	213.78	130.28	156336	30150	136500	15634	850000	60000	138500	88500	83400	31268	46901	1637189
Total		8934.54	5445	6531024	2608600	3276000	653120	36600000	3447000	2433000	3118000	3415650	1306222	1959323	65347939

7.2 Funds received under Watershed Development Fund (WDF)

Funds received for people participation to WDF		
S.N.	Name of work	Rs in lakhs
A	NRM work category	
1	Contribution from NRM work on general category	5.22
2	Contribution from NRM work on SC/ST/Small / Marginal farmers category	0.65
3	SubTotal (A) (1+2)	5.87
B	Production system	
4	Contribution from general category	10.45
5	Contribution from SC/ST/Small/Marginal farmers category	1.31
6	Sub Total (B) (4+5)	11.76
Total (A+B) (Rs. in lakhs)		17.63

7.3 Cost: Benefit Analysis (NPV, BC Ratio and IRR)

Year	Cost	Discounted value of cost	Benefits	Discounted value of Benefits	IRR
1	2	3	4	5	6
0	8,998,256	8,998,256			(8,998,256)
1	34,964,104	31,785,549	14,477,220	14,477,220	(17,308,329)
2	27,010,634	22,322,838	24,846,342	24,846,342	2,523,504
3	22,312,167	16,763,461	27,330,976	27,330,976	10,567,515
4	19,517,442	13,330,675	30,337,383	30,337,383	17,006,708
5			53,449,199	53,449,199	53,449,199
Total	112,802,602	93,200,779	150,441,119	150,441,119	37%

B:C Ratio (5/3)	1.61
NPV (5-3)	57,240,340
IRR	37%

Chapter 8: Convergence

8.1 Gram Panchayat wise proposed convergence cost

Sl. No.	Name of G.P.	Treatable area (ha)	IWMP	NHM	MGNREGA				By Farmers		Total cost
			Total cost from IWMP	Cost of horti-system	Cost for animal production support	Cost of roadside tree plantation	Cost of NRM works (MGNREGA part)	Total cost from MGNREGA	Contribution for horti-system	Cost for Renovation of FB	
1	2	3	4	5	6	7	8	9	10	11	12
1	Ajgra	79.76	922341	6990	552000	76600	1412814	2041414	6990	35282	3,013,017
2	Badhani	171.05	2199466	15380	552000	126000	1094667	1772667	15380	13570	4,016,463
3	Bahloolpur	177.03	2368099	60445	552000	62000	468526	1082526	60445	10856	3,582,371
4	Bahuchara	224.46	2306665	44630	276000	145800	526414	948214	44630	10856	3,354,995
5	Bansupur	81.24	804232	4310	276000	80800	272404	629204	4310	8142	1,450,198
6	Barista	80.23	381743	12655	276000	37200	463504	776704	12655	8142	1,191,899
7	Basupur	112.01	1365961	16550	552000	63200	381888	997088	16550	10856	2,407,005
8	Bhuwalpur	136.16	2020879	27675	276000	143000	622001	1041001	27675	5428	3,122,658
9	Bojhwa	103.69	1604186	11120	552000	131600	414388	1097988	11120	10856	2,735,270
10	Chaemar Saraiya	176.04	2289848	24840	276000	229400	419135	924535	24840	8142	3,272,205
11	Dadu Puran Singh	177.54	2188878	34105	276000	67400	521676	865076	34105	10856	3,133,020
12	Dekahi	14.90	158558	665	276000	0	143782	419782	665	5428	585,098
13	Deoli	337.50	2793350	62920	276000	251600	730188	1257788	62920	10856	4,187,834
14	Gadwara	39.63	337591	4060	276000	20400	394248	690648	4060	13570	1,049,929
15	Gahri	146.40	2204188	14245	828000	33200	589808	1451008	14245	16284	3,699,970
16	Gaura Dand	0.07	0	0	0	0	0	0	0	0	0
17	Gazi Mahubavan	177.32	2460006	59830	276000	83200	422885	782085	59830	8142	3,369,893
18	Gharaura	179.74	2139652	33170	276000	81400	772544	1129944	33170	5428	3,341,364
19	Handaur	40.41	413839	1900	276000	0	579612	855612	1900	24426	1,297,677
20	Hariherpur Kailha	89.81	694987	15605	552000	16400	381704	950104	15605	8142	1,684,443
21	Kataka Bali	263.93	2945947	50550	552000	220400	650848	1423248	50550	13570	4,483,865
22	Kharagpur	140.83	2044045	20040	276000	77200	429383	782583	20040	10856	2,877,564
23	Kodra Madupur	144.77	2151610	24350	276000	163600	540417	980017	24350	13570	3,193,897
24	Kodra Mangolpur	5.57	158996	700	276000	0	227564	503564	700	10856	674,816
25	Kotyia Newada	184.82	2214156	62550	276000	153000	342244	771244	62550	5428	3,115,928

Sl. No.	Name of G.P.	Treatable area (ha)	IWMP	NHM	MGNREGA				By Farmers		Total cost
			Total cost from IWMP	Cost of horti-system	Cost for animal production support	Cost of roadside tree plantation	Cost of NRM works (MGNREGA part)	Total cost from MGNREGA	Contribution for horti-system	Cost for Renovation of FB	
1	2	3	4	5	6	7	8	9	10	11	12
26	Lilapur	25.68	216457	4325	276000	2000	272657	550657	4325	10856	786,620
27	Makaipur	163.03	2427419	38790	276000	29600	604326	909926	38790	10856	3,425,781
28	Mavaiya Kala	94.11	1341493	9200	552000	60800	373045	985845	9200	10856	2,356,594
29	Multanipur	103.05	1438156	16615	552000	64000	538170	1154170	16615	16284	2,641,840
30	Nevada Kala	237.92	2370208	26855	552000	83800	711007	1346807	26855	10856	3,781,581
31	Paharpur	36.16	507229	7275	552000	0	669053	1221053	7275	27140	1,769,972
32	Pure Khusai	0.13	0	0	0	0	0	0	0	0	0
33	Rampur Khajur	24.47	469984	3200	552000	40400	292457	884857	3200	10856	1,372,097
34	Rampur Pran	74.15	467668	3515	828000	53400	438004	1319404	3515	8142	1,802,244
35	Rasulpur Gulraha	14.44	305176	2110	828000	0	266314	1094314	2110	10856	1,414,566
36	Sagra Sundarpur	115.85	1838632	15810	552000	100000	823875	1475875	15810	29854	3,375,981
37	Sakrauli	203.31	2282507	38945	552000	148600	645110	1345710	38945	13570	3,719,677
38	Sangrampur Kila	179.00	2398730	16890	552000	67800	583917	1203717	16890	13570	3,649,797
39	Shivrajpur	70.65	633148	6315	276000	127200	782736	1185936	6315	13570	1,845,284
40	Sondwa Duban	286.11	3027183	55400	828000	104000	639100	1571100	55400	10856	4,719,939
41	Tej Garh	22.57	261586	4135	552000	4800	270157	826957	4135	10856	1,107,669
42	Teliyahi	208.71	2298675	45830	276000	149800	665964	1091764	45830	10856	3,492,955
43	Tilauri	168.19	2257276	39495	828000	123600	559126	1510726	39495	10856	3,857,848
44	Tina	2.28	0	0	0	0	0	0	0	0	0
45	Trlokpur Visai	130.28	1637189	25845	552000	51400	532215	1135615	25845	16284	2,840,778
Total		5445	65347939	969835	19044000	3474600	22469877	44988477	969835	526516	112802602

Chapter 9: Phasing of the works

9.1 Physical phasing

Sl. No.	Works/Activity/Year	I	II	III	IV	V	Total
A	EPA activities						
1	Vegetable seed packet distribution for backyard garden	2199	0	0	0	0	2199
2	Pond	0	7	0	0	0	7
3	Fodder on field bund of BPL families	0	283	0	0	0	283
	Sub total	2199	290	0	0	0	2489
B	NRM Work						
1	Masonry check dam on IIIrd order @ 25 m (IWMP)(No)	0	11	6	6	4	27
2	Fodder on field bund IV @250m per farmer (No.s)	0	3520	1946	1615	1201	8282
3	CB m ³	0	40587	22442	18622	13848	95499
4	PBm ³	0	3557	1967	1632	1214	8370
5	Renovation of pond (No.s)	0	8	4	5	4	21
6	Renovation of FB in meter @200mtr per farmer (m3) (75% by MGNREGA)	0	83	46	38	27	194
7	Silvi Pasture (ha)	0	33	57	49	40	179
8	Renovation of FB in meter @200mtr per farmer (m3) (25% by farmers)	0	83	46	38	28	194
	Sub total	0	47882	26514	22005	16366	112766
C	Production System						
a	Production System for crop innovation						
1	Wheat SWI	27	43	92	70	43	274
2	Aonla + Intercropping	4	7	15	11	7	42
3	Seed Treatment Demonstrations	4	7	15	11	7	42
4	Oil seed+ potato intercrop	4	7	15	11	7	42
5	Early vegetable	4	7	15	11	7	42
6	Paddy SRI	18	28	60	46	28	180
7	Arhar transplanted	9	14	29	22	14	88
8	Maize + transplanted Legume	7	11	23	18	11	71
9	Millets	5	8	17	13	8	50
10	Green manure (Dhaincha)	4	7	15	11	7	42
11	Groundnut intercrop	5	8	17	13	8	50

Sl. No.	Works/Activity/Year	I	II	III	IV	V	Total
12	Zaid oilseed	3	5	11	9	5	35
13	Off season zaid vegetable	2	4	8	6	4	25
	Sub total	96	154	330	250	154	982
b	Production system for Farm machinery						
1	Cona weeder@2000	51	80	172	131	80	514
2	Aonla de-stoning machine3500	36	56	121	92	56	360
3	Manual Knapsack/foot operated sprayer.1300	18	28	60	46	28	180
4	Power ed Knapsack sprayer/Power Operated Taiwan sprayer (capacity 8 - 12 lts):7000	5	8	18	14	8	53
5	Pusa Zero energy cool chamber (100 kg)4500	5	8	17	13	8	50
	Sub total	115	180	388	296	180	1157
c	Work for Production Support						
1	NADEP @4/village	55	59	87	37	37	276
2	Vermi pit@4/village	41	44	65	28	28	207
3	Cow shelter@5/village	28	30	43	19	19	138
4	Goat shelter @ 2/village	28	30	43	19	19	138
5	Poultry shelter @ 2/village	14	15	22	9	9	69
	Sub total	166	178	260	112	112	828
D	Livelihood Activities						
a	Farm based activities						
1	Goat rearing (4F+1M goats /unit)	2	2	4	3	1	12
2	Poultry	3	4	2	3	3	14
3	Solar drier, Aonla, with Panel	3	4	2	3	3	14
4	Backyard poultry	2	2	2	1	1	8
5	Piggery (5F+1M pigs/unit)	2	2	1	1	1	8
6	Seed replacement	17	19	28	13	10	85
7	Low tunnel nursery	22	25	37	17	11	112
	Sub total	51	57	75	40	29	253
b	Non-farm based activities						
1	Producer company for Aonla Products (Federation) (@200,000)	1	1	1	1	0	4
2	Milk Collection Center (Federation) (@200,000)	1	1	2	2	1	7
3	Individual dairy unit (Rs. 20,000 per farmer)	5	6	6	5	3	23

Sl. No.	Works/Activity/Year	I	II	III	IV	V	Total
4	Pumpset repairing (20000)	0	1	1	1	0	3
5	Sanatary pad making from wood pulp (40000)	0	0	2	1	1	4
6	Electrician (20000)	0	0	2	2	1	6
7	Painting work (20000)	0	0	1	1	1	3
8	Tiles fitter (18000)	0	0	0	1	1	3
9	Plumbing (18000)	0	1	1	0	0	2
10	Shuttering work (18000)	0	0	1	1	1	4
11	Hand pump mechanic (20000)	0	1	2	2	1	6
12	Welding Set (Rs. 15000)	0	1	2	2	1	7
	Sub total	7	13	22	20	12	72
E	Agr- horticultutre and Plantation						
1	Aonla rejuvenation ha	6	7	10	4	4	31
2	Guava high density ha	3	3	4	2	2	13
3	Citrus - high density in ha	6	6	9	4	4	28
4	Rodeside plantation (no.s)	3475	3735	5472	2345	2345	17373
	Sub total	3489	3751	5495	2355	2355	17444
F	Training						
1	SLNA and line department	4	7	11	7	7	36
2	Watershed cum data cell	4	7	11	7	7	36
3	PIA	4	7	11	7	7	36
4	WDT	7	14	22	14	15	72
5	User Group	7	14	22	14	15	72
6	SHG	14	29	43	29	29	144
7	Watershed committee	7	14	22	14	15	72
8	Other volunteers	4	7	11	7	7	36
9	Watershed community and farmers	7	14	22	14	15	72
	Sub total	58	113	175	113	117	576
G	DPR	1	0	0	0	0	1
H	ME	1	1	1	2	2	7
I	Administrative	1	1	1	2	2	7
J	Consolidation (3%)	-	-	-	-	1	1

9.2 Financial phasing

Sl. No.	Works/Activity/Year	I	II	III	IV	V	Total
A	EPA activities						
1	Vegetable seed packet distribution for backyard garden	329850	0	0	0	0	329850
2	Pond	0	1925000	0	0	0	1925000
3	Fodder on field bund of BPL families	0	353750	0	0	0	353750
	sub total	329850	2278750	0	0	0	2608600
B	NRM Work						
1	Massonary check dam III @ 300 m (IWMP)	0	9350000	5100000	5100000	3400000	22950000
2	Fodder on field bund IV @250m per farmer (No.s)	0	4400000	2432500	2018750	1501250	10352500
3	Cost CB @ 67 m3	0	2719346	1503631	1247691	927766	6398433
4	PBm ³	0	238336	131806	109361	81288	560790
5	Renovation of pond (No.s)	0	5200000	2600000	3250000	2600000	13650000
6	Renovation of FB in meter @200mtr per farmer (m3)	0	673668	372451	307323	225913	1579354
7	Silvi Pasture (ha)	0	667350	1137150	977150	797150	3578800
8	Renovation of FB in meter @200mtr per farmer (m3) (25% by farmers)	0	224584	124166	102454	75314	526516
	Sub total of above	0	23473283	13401703	13112728	9608680	59596393
C	Production System						
a	Production System for crop innovation						
1	Wheat SWI	108000	171300	367300	279300	171300	1097200
2	Aonla+Intercropping	60000	97500	217500	157500	97500	630000
3	Seed Treatment Demonstrations	25600	41600	92800	67200	41600	268800
4	Oil seed+ potato intercrop	16000	26000	58000	42000	26000	168000
5	Early vegetable	4000	6500	14500	10500	6500	42000
6	Paddy SRI	45000	70000	150000	115000	70000	450000
7	Arhar transplated	18000	28000	58000	44000	28000	176000
8	Maize + transplated Legume	14000	22500	46500	36500	22500	142000
9	Millets	7500	11513	25013	19013	11513	74550
10	Green manur (Dhaincha)	8000	13000	29000	21000	13000	84000
11	Groundnut intercrop	15000	23025	50025	38025	23025	149100
12	Zaid oilseed	3000	5450	11450	9450	5450	34800

Sl. No.	Works/Activity/Year	I	II	III	IV	V	Total
13	Off season zaid vegetable	8000	16800	32800	24800	16800	99200
	Sub total	332100	533188	1152888	864288	533188	3415650
b	Production system for Farm machinery						
1	Cona weeder@2000	102000	160000	344000	262000	160000	1028000
2	Aonla de-stoning machine3500	126000	195125	422625	321125	195125	1260000
3	Manual Knapsack/foot operated sprayer.1300	23400	36400	78000	59800	36400	234000
4	Power ed Knapsack sprayer/Power Operated Taiwan sprayer (capacity 8 - 12 lts):7000	35000	56000	126000	98000	56000	371000
5	Pusa Zero energy cool chamber (100 kg)4500	22500	34875	75375	57375	34875	225000
	Sub total	308900	482400	1046000	798300	482400	3118000
c	Work for Production Support						
1	NADEP @4/village	495000	533250	785250	335250	335250	2484000
2	Vermi pit@4/village	410000	442500	652500	282500	282500	2070000
3	Cow shelter@5/village	1260000	1338750	1923750	843750	843750	6210000
4	Goat shelter @ 2/village	1120000	1190000	1710000	750000	750000	5520000
5	Poultry shelter @ 2/village	560000	600000	880000	360000	360000	2760000
	sub total	3845000	4104500	5951500	2571500	2571500	19044000
D	Livelihood Activities						
a	Farm based activities						
1	Goat rearing (4F+1M goats /unit)	40000	40000	80000	60000	20000	240000
2	Poultry	60000	75000	35000	55000	55000	280000
3	Solar drier, Aonla, with Panel	75000	93750	43750	68750	68750	350000
4	Backyard poultry	7000	7000	7000	3500	3500	28000
5	Piggery (5F+1M pigs/unit)	40000	45000	25000	25000	25000	160000
6	Seed replacement	51000	55500	82500	37500	28500	255000
7	Low tunnel nursery	220000	250000	370000	170000	110000	1120000
	sub total	493000	566250	643250	419750	310750	2433000
b	Non-farm based activities						
1	Producer company for Aonla Products (Federation) (@200,000)	200000	200000	200000	200000	0	800000
2	Milk Collection Center (Federation) (@200,000)	200000	200000	400000	400000	200000	1400000
3	Individual dairy unit (Rs. 20,000 per farmer)	100000	110000	110000	90000	50000	460000
4	Pumpset repairing (20000)	0	20000	20000	20000	0	60000

Sl. No.	Works/Activity/Year	I	II	III	IV	V	Total
5	Sanitary pad making from wood pulp (40000)	0	0	80000	40000	40000	160000
6	Electrician (20000)	0	5000	45000	45000	25000	120000
7	Painting work (20000)	0	0	20000	20000	20000	60000
8	Tiles fitter (18000)	0	4500	4500	22500	22500	54000
9	Plumbing (18000)	0	18000	18000	0	0	36000
10	Shuttering work (18000)	0	4500	22500	22500	22500	72000
11	Hand pump mechanic (20000)	0	20000	40000	40000	20000	120000
12	Welding Set (Rs. 15000)	0	18750	33750	33750	18750	105000
	sub total	500000	600750	993750	933750	418750	3447000
E	Agro- horticultutre and Plantation						
1	Aonla rejuvenation ha	122200	131350	192550	82550	82550	611200
2	Guava high density ha	158130	170100	249480	107100	107100	791910
3	Citrus - high density in ha	107350	115378	168958	72438	72438	536560
4	Rode side plantation	695000	747050	1094450	469050	469050	3474600
	Total of above	1082680	1163878	1705438	731138	731138	5414270
F	Training						
1	SLNA and line department	20000	35000	55000	35000	35000	180000
2	Watershed cum data cell	68000	119000	187000	119000	119000	612000
3	PIA	12000	21000	33000	21000	21000	108000
4	WDT	24500	49000	77000	49000	52500	252000
5	User Group	56000	112000	176000	112000	120000	576000
6	SHG	63000	130500	193500	130500	130500	648000
7	Watershed committee	45500	91000	143000	91000	97500	468000
8	Other volunteers	24000	42000	66000	42000	42000	216000
9	Watershed community and farmers	21000	42000	66000	42000	45000	216000
	sub total	334000	641500	996500	641500	662500	3276000
G	DPR	653120	0	0	0	0	653120
H	ME	186603	186603	186603	373207	373207	1306222
I	Administrative	933003	933003	933003	1866008	1866008	6531024
J	Consolidation (3%)	0	0	0	0	1959323	1959323
	Grand Total of A+B+C+D+E+F+G+H+I+J	8998256	34964104	27010634	22312167	19517442	112802602

Chapter 10: Consolidation and post-project management

Watershed development projects can render sustainable production through the execution of rain water management programme with appropriate combination of environmental balance, community participation and institutionalization of process. The strategic planning for the post project management is elaborated as under:

10.1 Activity of consolidation and post project management phase

SL. No.	Activity
1	Preparation of project completion report
2	Preparation of GPS based inventory of developed infrastructure
3	Documentation of success stories
4	Preparation of feed back and suggestion note for watershed committee
5	Documentation of procedure for management and utilization of infrastructure developed under the project
6	Documentation of procedure for maintenance of infrastructure developed under the project
7	Documentation of utilization of watershed development fund (WDF)
8	Documentation of quality and sustainability issues

10.2 Adoption of eco-friendly conservation measures

The conservation measures taken up in the watershed should be long lasting with sustainability. Along with engineering measures, efforts would also be made to reinforce the vegetative cover around the earthen structures, on the slopes, on bunds, and on barren lands through protection of the process of natural regeneration and by planting appropriate vegetation with combination of grass/shrubs and trees. The stream banks would also be vegetated and stabilized to create a buffer zone between land and water body. Such vegetation and physical measures help in stabilizing stream banks, augmenting ground water recharge and improving the riparian habitat.

The diversity of watershed development measures is the key to sustainability. Combination of drainage line management, agro-horticulture and forestry measures including plantation of shallow and deep-rooted plants, fast and slow growing plants, productive and medical plants and herbs will be encouraged. The watershed development measures will ultimately help recharge the rainwater to the ground water, improve soil moisture optimally and provide tangible and intangible benefits to the community and environment as a whole.

Land use pattern will go hand in hand with carrying capacity of the watershed. Optimum use of water and increased use of organic fertilizers is the key to conserve the precious land sources. Excessive fertilization and over irrigation leads to permanent damage of soil, land and groundwater. It is important to maintain soil quality through crop management. Crop diversity, intercropping, and crop rotation help in improving the micro flora and fauna present in the soil and maintaining the healthy symbiotic subsystem relationship. Extensive use of measures like Integrated Pest Management (IPM) and Integrated Pest and Nutrient Management (IPNM) would be practiced.

10.3 Participation of local community in development and management

During the planning phase the local peoples' participation will be ensured and it is planned that the involvement during implementation and post project maintenance will be

maintained. However, participation without empowerment does not help in achieving sustainable development. Community will be made aware of different concepts and options for their livelihood and natural resource management. Local wisdom is important in understanding rural dynamics that includes the interface between human behaviour and its economic/ecological implications. The interest among the community will be created and maintained by adopting the measures in such a manner that they provide immediate, medium and long term benefits to the community.

10.4 Institutionalization for post project management

A dynamic institutional arrangement is necessary for project management, facilitation of benefit sharing and maintenance of the resources. This is usually achieved through formation of user groups for different resources/assets created as well as through other village level organizations. In-built system and mechanism will be developed for qualitative growth and dynamism of the organizations. The community organizations will be linked to other Government and Non Government institutes of interest. Therefore potential people's organizations would be formed in the project area viz watershed level organization and users groups.

10.4.1 Watershed level committee

Watershed level organization viz; water and watershed management committees will be established right from the beginning of the project. The overall planning, co ordination, management and maintenance are possible through this representative body. This clearly implies representation from different sections of the community – landholders and landless, men and women, thus bringing people from all section of the society, gram panchayat and other existing political or non political organizations.

10.4.2 User Groups (UGs) and Self Help Groups (SHGs)

Few other categories of institutions are formed of various groups with common areas of interest in the project area. These include, depending upon necessity, SHGs of women and men, UGs for common assets, etc. The capacities of different groups will be developed from time to time for effective functioning of the groups. A mechanism will be developed to ensure continuity, both in learning, functioning and actions that form responsibilities of such groups during the implementation project activities.

Annexure I: Computation of profit for various crops based on production cost and production value

Sr. no	Items		Rabi Crop				Kharif crops									Zaid and/or yearlong			
			Wheat	Gram	Barly	Mustard	Black Gram	Paddy	Green Gram	Maize	Jowar	Groundnut	Bajra	Arhar	Sesame	Peas	Onion	Potato	Sugarcane
1.1	Human Labour	Family	5325	4143	5958	5694	4534	8231	5631	9269	2916	10112	5140	9001	5263	4700	12437	10647	13160
1.2		Attached	31	3	156	55	10	38	25	0	12	3710	0	0	12	12	174	29	506
1.3		Casual	3005	2997	3362	2768	1353	5308	2633	3960	2571	10123	4486	2564	9137	4873	26998	4962	12549
2.1	Animal Labour	Hired	9	29	0	267	9	33	1	28	5	322	0	43	244	2	61	450	300
2.2		Owned	570	212	851	699	322	1415	89	533	811	2197	85	635	1266	1288	157	320	1283
3.1	Machine Labour	Hired	5475	3266	3555	3331	2147	3097	2036	2662	2985	2341	3499	2067	1542	3601	4294	4382	1058
3.2		Owned	435	179	1604	1138	632	237	101	20	10	54	54	91	24	993	534	1137	401
4	Seed		2664	4991	2920	703	922	2568	1310	822	1239	8778	743	1203	618	4177	8442	20552	7611
5.1	Fertilizer & Manure	Fertilizer	4393	1105	3700	3050	51	3698	704	1878	2633	2736	776	79	1984	2181	9874	10215	3811
5.2		Manure	2	0	0	29	0	73	50	258	271	405	0	9	37	4	1007	327	507
6	Insecticides		152	7	0	18	300	266	206	8	311	405	4	0	148	92	1905	129	538
7	Irrigation Charges		3822	1334	3110	1597	26	2954	91	918	0	2986	352	1268	817	3163	5438	3014	5963
8	Interest on Working Capital		643	441	602	428	180	615	226	346	339	1064	312	249	495	654	1846	1423	2158
9	Fixed Costs		17171	11970	14719	15923	5855	15035	5149	11287	6038	18376	10057	25291	6798	10761	45443	18671	38807
10	Rental Value of Owned Land		13059	8852	11929	11328	2979	10941	2750	7893	4857	15431	8129	12213	6128	8124	40069	14779	32157
11	Rent Paid For Leased-in-Land		890	387	134	748	1557	204	899	301	0	0	194	6754	0	3	0	38	161
12	Land Revenue, Taxes, Cesses		21	7	13	11	4	5	2	9	3	24	3	14	21	8	25	11	23
13	Depreciation on Implements & Farm Building		623	439	381	462	313	696	294	741	319	354	595	1348	187	278	499	611	1020
14	Interest on Fixed Capital		2577	2285	2262	3373	1002	3190	1205	2344	859	2566	1137	4963	462	2348	4851	3232	5445
16	Total cost per ha [sum(1 to 9)]		43697	30679	40536	35698	16341	43568	18253	31987	20141	63611	25508	42501	28385	36501	118610	76255	88650
17	Production cost/q		1748	3068	1689	3570	4085	1556	6084	1599	1439	3742	1500	4722	4731	3042	1483	763	222
18	Production q/ha		25	10	24	10	4	28	3	20	14	17	17	9	6	12	80	100	400
19	Rate Rs/q		1500	3500	1450	4000	4500	1500	6000	1400	1600	4200	1400	5000	6000	3500	1500	800	270

Sr. no	Items	Rabi Crop				Kharif crops									Zaid and/or yearlong			
		Wheat	Gram	Barley	Mustard	Black Gram	Paddy	Green Gram	Maize	Jowar	Groundnut	Bajra	Arhar	Sesame	Peas	Onion	Potato	Sugarcane
20	Amount main product Rs/ha (18*19)	37500	35000	34800	40000	18000	42000	18000	28000	22400	71400	23800	45000	36000	42000	120000	80000	108000
21	By-product q/ha	25	5	20	1	2	25	4	40	30	25	25	4	1	2	50	100	120
22	Rate of by-product Rs/q	350	350	350	100	350	150	350	100	100	300	100	400	50	300			
23	Amount of by-product Rs/ha (21*22)	8750	1750	7000	100	700	3750	1400	4000	3000	7500	2500	1600	50	600	0	0	0
24	Total amount Rs/ha (20+23)	46250	36750	41800	40100	18700	45750	19400	32000	25400	78900	26300	46600	36050	42600	120000	80000	108000
25	Profit Rs/ha (24-16)	2553	6071	1264	4402	2359	2182	1147	13	5259	15289	792	4099	7665	6099	1390	3745	19350