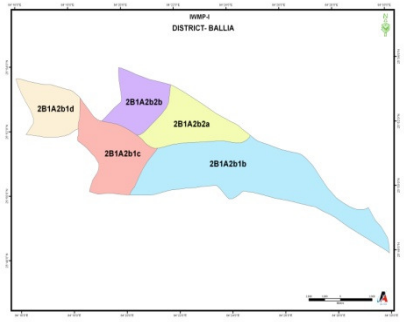
DETAILED PROJECT REPORT (DPR)

INTEGRATED WATERSHED MANAGEMENT PROGRAMME (IWMP) 2009-10

DISTRICT- BALLIA



SUBMITTED TO:
LAND DEVELOPMENT & WATER RESOURCES DEPT. U.P.

SUBMITTED BY:
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Preface

INTEGRATED WATERSHED MANAGEMENT PROGRAMME (IWMP)

The integrated and participatory management and natural resources namely soil, water, vegetation, man, animal and environment using watershed as unit is the key for sustainability of society, environment and production of food, fodder, fuel, fiber, fish, flower, forest etc. About 80 percent of the world and 60 percent of the Indian Agriculture is rain dependent, diverse, complex, under-inverted risky, distress prone and vulnerable. In district Ballia the selected area in the block Kisni for the development under I.W.M.P. Project is very major problematic area due to misuse and over exploitation of resources and droughts. Many people are under below poverty line with low production in agriculture, milk and other farming problems and migration of people for employment to other places etc are major problems in selected area. The degradation of risk prone agro-ecosystem as a result of increased graded due to network of gullies, insufficient vegetal cover, over exploitation of resources, poor production and starving farmers & animals are the limiting factors for prosperity to posterity.

A detailed project plan (DPR) is prepared for the approval of Panchayat, State Govt. and National Rain fed Authority MoA and Govt. of India for the sanction of budget. The report includes scientific and integrated management of all natural resources namely water, soil, vegetation, animal and environment for sustainable production. The descriptions of physical, financial, technical and social details are well highlighted for the development of watershed and expected benefits by mitigating the bad effects of problem area. The details have been summarized as executive summary and Project at a glance.

The DPR of each micro watershed / village Panchayat will be prepared for development with each and every minute details using detail survey and village map. Each work proposed by field works (WDT) will have all physical Financial , Technical and social details for its administrative, technical and financial sanction by Panchayat, watershed manager and finally by PIA.

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TABLE CONTENTS

PROJECT AT A GLANCE

1	Name of Project	IWMP- I
2	Name of Block(s)	Reoti
3	Name of District	Ballia
4	Name of State	Uttar Pradesh
5	Name of Watershed	Chhapra Sarib, Jharkataha, Husenabad, Mahadhan Pur, Udaha
6	Code of Micro watershed	**2B1A2b2a, 2B1A2b1b, 2B1A2b1d, 2B1A2b2b, 2B1A2b1c**
7	Total Geographical area of Project (ha)	**7469**
8	Treatable area(ha)	**5378**
9	Total Project cost(Lacs)	**645.36**
10	No. of Gram Panchayats.	28
11	No. of concerned villages.	61
12	**Demographic Features**	
I	Total Polpulation	83759
Ii	Male Population	43461
Iii	Female Population	40298
Iv	Total SC Population	8908
V	Sex Ratio	1000:927
13	Total Farmer	5528
14	Large Farmer	393
15	Small Farmer	1682
16	Marginal Farmer	3453
17	Project Period	(5Years) 2009-2010 to 2013-2014

18	No. of WCs	5
19	No. members	46
20	Formation of SHGs	
21	Total SHG Nos	203
22	Female SHG Nos.	130
23	Total No. of Members	1218
24	Formation of UGs	-
25	No. of UGs	22
26	No. of Members (UG)	202
27	Important Outcomes indicators	
	(1) Rainfed area (ha)	5993.134
	(2) Area under irrigation (ha)	1736.839
	(3) Area under crops (ha)	6633.78
28	Ground water status Average (m)	4
29	Milk Production (Liters)/per day	740
30	Average income per family (Rs.)	18000-25000
31	Land holding families Average	.82
32	Landless/ Poor families	1736
33	Employment Generation	
	(1) During Project Period	3.09
	(2) After Project	0.58

EXCUTIVE SUMMARY

The Watershed comprises of sixty one villages in Reoti Block of Ballia District of Utter Pradesh. All these watersheds has been identified by the Land development and water resources by IWMP scheme proper prioritization of different parameter for watershed selection criteria Ballia. The watershed is located in the North East of Ballia District. Its lives between 25^0 47′ 53.813′′N to 25^0 53′53.506′′N latitudes and 84^0 15′ 58.799′′ E to 84^0 29′ 57.913′′ E longitude. (Code No. 2B1A2b1d, 2B1A2b2b, 2B1A2b1c, 2B1A2b2a, 2B1A2b1b,) Its altitude 160 to 164M above the mean sea Level (MSL) The total area of watershed is 7469.00 ha. It is surrounded to river Ganga & Ghaghara, All these

watershed are surrounded by the 25 grampanchayat. A watershed is the entire land areas which drain into a stream from its mouth. The watershed of a steam has not only area, but also depth extending from the top of the vegetation to the confining geologic strata beneath. It is a hydrologic unit. There is an infinite relationship between land & water. In simple words it can be refused to the divide separating one drainage basin from other. It is also used a synonym for catchments over or a drainage basin.

The intensification of land use in to traditional agricultural sifting is self depth because it is exploitive the present agricultures practice greatly increase runoff is soil erosion, reduce ground water recharge, cause flood & sedimentation of reservoirs etc. As a result, the cultivated land resource base is shirking and its productive co capacity is diminishing.

Run off, erosion & drainage represent serious problems in may areas of semiarid tropics. These problems can be solved by evolving developmental programmers which take into consideration natural topography and drainage pattern of the land. The collection of excess water and its utilization to provide greater stability to rainfed agriculture appears to be a variable developmental alternative. The watershed is the natural frame work for resource development in relation to crop production.

The climate of the region is characterized as arid to semi arid with average annual rainfall ranges 800 mm annually with an average of 85 rainy days. Out of which above 85% is received during the monsoon season from July to September. The area received very less rainfall in the winter season. How ever temperature ranges from as high as 42ºc in the May- June to as low as 5ºc during December January the pattern of rainfall is highly erratic & maximum water goes as run off.

The most soils of targeted area are sodic in nature, where productivity is very low. PH of these soils ranges from 8.5 to 10. These soils are deficient in organic matter, water holding capacity & micronutrients. Improved greed's of animal & high yielding varieties of different crops, which have sodieness tolerance capacity like Usar Dhan 1 & 3 Daincha, Wheat, Barley, Beer, Bal & Anola, Guava have need to introduce, In spite of that 33% area of sandy clay loam in nature, which have good soil characteristics along with productivity.

Farming is the main occupation of the dwellers of the watershed. The major crops over Rice Wheat Bajra, Archer, Mustard, Sugarcane etc. raised most of the lands kept fallow during khariff because of irregular & uncertain rainfall during the rainy season; Rice & Wheat are the most pre dominant cropping system in the area. A tune off 42 % area under agricultural crop is covered during khariff season in the watershed. Among them various crops like race. Shares maximum area (28%) followed by Arhar (5%) Jowar (4%), Maize (3%) & sugarcane (2%).

Natural vegetation of watershed is not very scientific way. The Forest vegetation is far-dominant with shisham (*Dalbergia sissoo*) Karanj (*Dongamain global*), Mango (*Manjifera indica*) Babul (*Acacia lilotica*) Golar, Neem (*Azadirchta indica*) etc. There is no proper pasture in

the watershed. Grass patches are seen only on the bunds, road side & other such palaces, the principal grasses are serpat, dub (Cynolon ducty bin) Kans.

CHAPTER- 1

PROJECT BACKGROUND

1.1 Project Background

IWMP I Ballia district UP watershed with code No. **2B1A2b1d, 2B1A2b2b, 2B1A2b1c, 2B1A2b2a & 2B1A2b1b** respectively having area 7469.00 ha. Located in North-East part of Ballia district of Uttar Pradesh has been taken up by Department of Integrated watershed management programme District – Ballia.U.P. Under funded Ministry of rural development, GOI. The afar said watershed has also been taken up programme implementation comprising of development & management plan during next five years 2009-10 to 2013-14). The total area of watershed is 7469.00 ha and treatable area is 5378.00ha

1.2 Status of watershed programme

Details	No.	Area (Lac ha.)
1	2	3
Total Micro watersheds in the district	574	4,28,200.00

Workable Micro Watersheds	513	3,92,536.00
Micro Watersheds already treated by DLWR & other agencies	340	2,62,724.00
Balance Micro Watersheds (MWS) for treatment (Before start of IWMP in distt.)	173	1,29,812.00

1.3 Approved plan (PPRs) by Steering Committee (SC)/Gov. of India

Year	Project/Phase IWMP	MWS	Area (ha)	Project Cost Rs. lakh	Name of PIA	S.C. Meeting Date
1	2	4	5	6	7	8
2009-10	IWMP 1	5	5378	645.36	Ballia	

1.4 Status of previous DPRs

S. No.	Approved Project (IWMP-I)	Status of DPR under preparation/ prepared/approved by SLNA with date	Project Area ha	Treatable Area ha	Project cost Rs.(Lakh)	Project period (Fin. Year from.....to.....)	PIA
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
1	-	-	-	-	-	-	-

1.5 Details of IWMP for which this DPR is Prepared

Watershed project IWMP -I	Micro Watersheds (MWS) detail	Micro watersheds code	Name of Watershed in which MWS is falling (River / Nala name)

	2B1A2b2a-Chhaprasarib	2B1A2b2a	Sota Koi
	2B1A2b1b-Jharkataha	2B1A2b1b	
	2B1A2b1d-Husenabad	2B1A2b1d	
	2B1A2b2b-Mahadhanpur	2B1A2b2b	
	2B1A2b1c-Udaha	2B1A2b1c	

Table No.1.1: Criteria and weightage for selection of watershed

S. No.	Criteria	Maximum score	Ranges & scores			
i	Poverty index (% of poor to population)	10	Above 80 % (10)	80 to 50 % (7.5)	50 to 20 % (5)	Below 20 % (2.5)
ii	% of SC/ ST population	10	More than 40 % (10)	20 to 40 % (5)	Less than 20 % (3)	
iii	Actual wages	5	Actual wages are significantly lower than minimum wages (5)	Actual wages are equal to or higher than minimum wages (0)		
iv	% of small and marginal farmers	10	More than 80 % (10)	50 to 80 % (5)	Less than 50 % (3)	
v	Ground water status	5	Over exploited (5)	Critical (3)	Sub critical (2)	Safe (0)
vi	Moisture index/ DPAP/ DDP Block	15	-66.7 & below (15) DDP Block	-33.3 to -66.6 (10) DPAP Block	0 to -33.2 (0) Non DPAP/ DDP Block	
vii	Area under rain-fed agriculture	15	More than 90 % (15)	80 to 90 % (10)	70 to 80% (5)	Above 70 % (Reject)

viii	Drinking water	10	No source (10)	Problematic village (7.5)	Partially covered (5)	Fully covered (0)
ix	Degraded land	15	High – above 20 % (15)	Medium – 10 to 20 % (10)	Low- less than 10 % of TGA (5)	
x	Productivity potential of the land	15	Lands with low production & where productivity can be significantly enhanced with reasonable efforts (15)	Lands with moderate production & where productivity can be enhanced with reasonable efforts (10)	Lands with high production & where productivity can be marginally enhanced with reasonable efforts (5)	
xi	Contiguity to another watershed that has already been developed/ treated	10	Contiguous to previously treated watershed & contiguity within the microwatersheds in the project (10)	Contiguity within the microwatersheds in the project but non contiguous to previously treated watershed (5)	Neither contiguous to previously treated watershed nor contiguity within the microwatersheds in the project (0)	
xii	Cluster approach in the plains (more than one contiguous micro-watersheds in the project)	15	Above 6 micro-watersheds in cluster (15)	4 to 6 microwatersheds in cluster (10)	2 to 4 microwatersheds in cluster (5)	
xiii	Cluster approach in the hills (more than one contiguous micro-watersheds in the project)	15	Above 5 micro-watersheds in cluster (15)	3 to 5 microwatersheds in cluster (10)	2 to 3 microwatersheds in cluster (5)	
	Total	**150**	**150**	**90**	**41**	**2.5**

Table no.1.2: Weightage of the project

Project Name	**Project Type**	**Weightage**												**Total**
IWMP-I	**Eastern plain**	**i**	**ii**	**iii**	**iv**	**v**	**vi**	**vii**	**viii**	**ix**	**x**	**xi**	**xii**	**xiii**	**84.5**
		10	**5**	**5**	**10**	**2**	**0**	**10**	**7.5**	**10**	**10**	**5**	**10**	**N.A.**	

1.6 NEED OF WATERSHED DEVELOPMENT PROGRAMME

Watershed Development Programme is prioritized on the basis of thirteen parameters namely Poverty Index, Percentage of SC/ST, Actual wages, Percentage of small and marginal farmers, Ground water status, Moisture index, Area under rainfed agriculture, Drinking water situation in the area, Percentage of the degraded land, Productivity potential of the land, Continuity of another watershed that has already developed/treated, cluster approach for plain or for hilly terrain. Based on these thirteen parameters a composite ranking was given to Eval

Watershed project as given in Table no. 2 the total number of families under BPL is above 50 percent of the total households of the village. Hence a score of 7.5 is allotted. The percentage of schedule castes in the village is about 35 percent to the total population; hence a score of 10 was allotted. Rainfed agriculture for is the primary occupation of the village due to the fact that ground water is saline and hence unfit for usage. More than 80 percent of the farmers are small and marginal by natural and the actual wages earned by the labour is less than the minimum wages hence a composite rank of 5, and 10 are allotted respected.

Since the rainfall received is erratic and irregular. Drinking water is problematic in the village. The soil is very permeable and production of the land can be significantly enriched with the availability of timely irrigation. All watershed falls in continuity with other watershed. Cluster approach was followed taking into consideration five micro-watersheds covering a total area of 7469 Ha. Thus a cumulative score of 84.5.All the parameters taken together give a cumulative score of 90 to the watershed

Objectives and Scope of Project

a. Conservation, development and sustainable management of natural resources including their use

b. Enhancement of agriculture production and productivity in a sustainable manner.

c. Restoration of ecological balance in the degraded and fragile rain-fed ecosystem.

d. Reduction in regional disparity between rain-fed and irrigated areas.

e. Creation of sustainable employment opportunities for the rural community for livelihood security.

MAJOR PROBLEMS OF THE WATERSHEDS

f. Moisture stress-Drought conditions
g. Erosion hazard
h. Excess runoff.
i. Land degradation
j. Low fertility of soil
k. Ground water depletion/Low ground water table, poor quality of groundwater
l. Low cropping intensity
m. Lack of technical knowledge
n. Lack of irrigation facilities
o. Low productivity of crops

p. Low availability of drinking water for human as well as animals
q. Overgrazing
r. Poor vegetative cover
s. Poor/low productive breeds of miltch animals
t. Lower milk production
u. Lack of feed & fodder availability
v. Non availability of wood/fuel
w. Lack of proper market facilities
x. Lack of educational, transportation, medical & health care facilities
y. Low wages
z. Small land holdings
aa. Low income of the households
bb. Lack of employment opportunity.
cc. Migration from the project area.

COMMON PROBLEMS OF THE PROJECT AREA

The watershed is subjected to various natural & man made desertification, low productivity and imbalanced ecosystem and socio-economic condition of the villagers as described here. The users, planner's .developmental and funding agencies and administrators should make efforts to find solutions and create situations to avoid the following problems faced in the past for achieving successful project.

3.1 Natural Calamities –

1. Increase in number frequency, duration of metrological, hydrological and agriculture of droughts resulting in poor water storage and vegetal production.
2. During normal rainfall years the area receives rainfall during June to September and scanty & irregular showers during winter. Thus remaining period suffers from draught due to low water conservation power of the area as result of erodible causing high run off conditions.
3. The sandy soil along river bank and also loam in other area has low water holding capacity and fertility as well.
4. The few torrential and erosive rain storms on weak and fragile ecosystem need suitable umbrella of vegetative cover to conserve soil
5. Area also suffers from comparatively higher temperature in summer.

3.2 Resource exploitation, miss-management & degradation

1. Reduction in water storage capacity of existing structures creating loss of irrigation potential.
2. The farmers are over cultivating degraded terraces, overgrazing grasslands, illicit felling and pollarding of forest trees. Thus, disturbing ecological balance.
3. Lack of awareness and absence of soil conservation works to be adopted by the farmers and state Govt.
4. The watershed does not have the good soil for water harvesting, storage & re-cycling by way of constructing embankment, gully plugs, ponds, nala bundling etc. to face the challenge of drought by providing life saving irrigation to the crops mitigating erosion and flood on foot hills.

5. The productivity of Agriculture, Horticulture, and Animal husbandry is far below the optimum level due to following reasons.
   (I) Great dependence on monsoon:
   (II) Insufficient fertilizer per unit cropped area:
   (III) Traditional farming methods:
   (IV) Lack of adequate farm machinery:
   (V) Lack of finances for farmers:
   (VI)Lack of good quality seeds and fertilizers:

3.3 Administration-

1. The planning of watershed is a bottom up approach based on PRA & RRA. While it was suffering due to its dependence almost entirely on the top down bureaucracy with very little participation of the villagers.
2. Watershed management is a multi-disciplinary and multi-pharaohs activity which calls for active participation of the entire related state department but it is suffering from poor co-operation and superiority complex.
3. In many cases the Chief administrator felt helpless to co-ordinate the activities by involving the departments due to their busy schedule a political pressure & poor administrative hold on other departments Thus, the system of joint responsibility of sharing activities is almost paralyzed.
4. Frequent transfers of competent and experienced officers and posting of untrained and inexperienced officers with the qualification not related with the watershed development. The development by planers will yield added success.
5. The watershed development is a difficult task in the backward and remotely situated areas and the men have to settle their families in the towns far away from the watershed having house, medical and education facilities. The hardship of watershed managers is not generally considered by sanctioning project disturbance allowance and facilities which ultimately lead to suffering of the work and employees.

3.4 Facilities and finances –

1. The project implementing agency, responsible for watershed Development, does not have sufficient facilities. The machines and implements namely tractor, bulldozer, jeep, improved quality seed and breed of animal etc. The PIA officer does not get sufficient co-operation from the other Govt. Depts. for satisfying these needs.
2. A field laboratory for testing important parameters of soils, water, vegetation, animal etc. is generally not provided to the watershed development project.
3. In many cases watershed manager does not get sufficient funds as per actual estimate and grant is based on the standard and estimate fixed in the previous years having low rates of material and labour.
4. It is a common problem in most of the department as a whole. The funds are not provided as per work and execution schedule and made available sometimes in the last week of financial year which is affecting quality & quantity of work, misuse and misappropriation of funds.
5. Funds are very limited and as per rough estimate the rate of resource degradation and reclamation measures in our country are almost going on with the same speed.
6. There is also fear that a rapid expansion of the intellectual property regime, which is now beginning to cover scientific findings & important to food, health security and other basic life support systems, New technology may not be readily available to resource poor rural families.
7. Poverty of people availability/untimely of suitable input and technology.

3.5 Socio-economic –

1. The farmers of the area are poor because many of them are either landless or having uneconomic small holdings resulting the status of farmers below the poverty line.
2. The production of the crops of horticulture, agriculture and grass from panchayat and gazing lands is far below the optimum level.
   The villagers don't have sufficient alternate land use and income.
3. Few unemployed youths and workless villagers are in the habit of gambling and drinking.
4. Ladies are over worked in the house as well as in the field.
5. The self interest to grasp benefits by individuals, influential persons, politicians and between sub villages

3. 6 Industrialization of watershed –

1. There is no small or big factory in the watershed for employment of the people.
2. Alternate land use as source of additional income namely bee-keeping, mushroom production, sericulture, piggery, fishery, dairy processing etc. on commercial scale

are beyond the imagination of the dwellers in most of Project areas.

3. The Operational facilities of banking for the loan at a low interest for the purchase of farm inputs are not there. The farmers are dependent on local money lenders, charging high interest rate.

4. The facilities of storage, marketing and transport of the village produce are very meager or absent.

OBJECTIVES

1. To promote the economic development of the village community which is directly or indirectly dependent on the watershed through?

a. Optimum utilization of the watershed's natural resources namely land, water, vegetation animal etc. that will ensure sustainability of production & society and mitigation of drought by scientific and judicious management of water resources.

b. Employment generation and development of the human especially landless and ladies and other economic resources of the village in order to promote savings and other income generation activities.

2. To encourage restoration of ecological balance in the watershed through;

a. A scientific and judicious management of natural resources so that flood and draught, land, water & nutrients can be conserved, productivity and income can be improved and other problems namely sedimentation of reservoirs, communication failures, ravine development, pollution of air and water etc. can be minimized.

b. Sustained community action for the operation and maintenance of assets created and further development of the potential of the natural resources in the watershed.

c. Simple, easy and affordable technological solutions and institutional arrangements that make use of, and build upon, local technical knowledge and available materials to improve bio-diversity, environment and sustainability in all spheres.

3. Special emphasis to improve the economic and social condition of the resource-poor and the disadvantaged sections of the watershed community such as the asset less and the women through:

a. More equitable distribution of the benefits of land and water resources development and the consequent biomass production.

b. Greater access to income generating opportunities and focus their human resource development.

4. Human resource development through working, training and visits at all levels namely administrators, technicians, field workers and beneficiaries. The project will yield a valuable and permanent system of brotherhood, love and effective cooperation amongst the villagers and watershed authorities by working with the groups and membership of various village institutions.

5. The operational projects proposed and conducted, will guide scientists to investigate the scientific basis of local technical innovations and to either give validation to the farmer's practices or improve upon their technical content without losing their comparative advantage of cost-effectiveness and simple and easy usefulness. Non-monitory input namely contour cultivation, mulch, crop geometry, tillage, INM and IPM need to be promoted.

6. Capacity building of village institutions and local bodies in implementing the responsibilities assigned to them.

Methodology for the preparation of DPR

I. Use of available of information

The collection of data and details from following sources

A. Statistics of state district and Panchayat
B. Achievements technology from state line departments namely agriculture, horticulture, forestry industries etc.
C. Satellite images
D. Thematic Maps
E. Visit of already developed watershed in the locality.
F. Study of available watershed proposal and estimates.

II. Records at Watershed level

A. Available Records
   1. Block Development office
   2. Village Panchayat
   3. Lekhpal (Revenue) and Supervisors of State line Department
B. Existing developmental activities
   1. Pond, irrigation tank, Channel
   2. Check Dam, Retentions wall in gully and slide spot area
   3. Drinking water structures
   4. Agriculture, horticulture, animal husbandry and village industries
   5. Forestry, Pasture and staggered trenches and common land
   6. Distribution of improved seeds of grain and vegetables
   7. SHG, UG, Van Panchayat etc.

III. Details of Estimates

1. Estimates Prepared by field worker for the project proposal, to be checked by J.E. and Soil Conservation Officer

IV. Meetings

1. Visit of the area and discussion with the formers using PRA and RRA exercises.
2. Group discussion-with office bearers of village institutions namely WDT and WC.
3. Discussions with district water advisory unit consisting of state line department.
4. Training details of PIA, WDT, and Beneficiaries

V. Steps of Report Preparation

A. Study of Maps
   1. Village Cadastral map 1:4000
   2. Toposheet 1:50000/ 1:25000/ 1:250000.
   3. Micro watershed map of all Prepared by RSAC, UP,
   4. Satellite Image processing
   5. Superimpose of sajra map on high resolute satellite image.
   6. Contouring
   7. Net planning on maps

B. Baseline Survey with GPS (Orgon 550)
   1. Detailed intergraded basic resources/bench mark surveys and demarcating the present and proposed land uses, land treatment etc.

C. PRA
   1. The PRA was Guiding principal and this will empower the farmers in decision making by sharing responsibilities and accountabilities of activities to be carried out by focusing on economic, ecological, equity, efficiency and empowerment

D. Project Report

1. Need Problems General descriptions of resources, present and proposed land use and treatment, budget, drawing and estimate of work etc.

E. Editing and improvement of report

The well qualified consultants of watershed survey, Planning, development, monitoring and evaluation were engaged for editing and improvement of the report.

Process step from planning

The following nine process steps were applied for net planning of watershed as summaries below.

STEP-1 **Secondary data collection:-** During the five days visit programme in the micro watershed project with of all available documents of village label by approaching the Gram panchayat collected secondary data.

STEP-2 **Village meeting & conducting PRA exercise:-** Community meeting conducted on fix days for the consultation with villagers for the PRA Exercise. Participatory mode of the villages was positive indicated for the success of programme. With good in testing participation has been drawn social & resource map on ground & paper & discussed unvarious topics of problematic thoughts in the micro watershed.

STEP-3 **Socio economic survey: -** The resource organization of village label volunteers identified to conduct house hold socio economic survey/states.

STEP-4 **Probe typology analysis:-**Thoroughly analyzed the data & identified problem type as soil & moisture conservation, crop rotation, crop coverage, productivity, livelihoods, social issues & capacity building gaps etc. Problems discussed with the watershed committee & came up with alternative solution.

STEP-5 **Conduct of net participatory planning (NPP):-** The planning team visited together in the planning blocks on the scheduled date along with the beneficiaries of the villages & data gathered as for the participatory net planning.

STEP-6 **Productivity & livelihood planning exercise: -** For the product livelihood exercise, group discussion on various livelihoods as Agriculture, Animal husbandry enterprise development held discussion with the villagers in the micro watershed.

STEP-7 **Institutional & capacity building: -** This plan is prepared based on the data available in the field and auscultations with the watershed committee.

STEP-8 **Data consolidation & documentation of DPR: -** After gathering all required information compiled collected data. Thoroughly discussed and finalized the expected outcomes and benefits especially in the respect of livelihood for different segments. These are the target and performers indicators for the micro watershed.

STEP-9 **Conduct of Gram Sabha obtaining approvals submissions of DPR.:-**After preparation of the draft DPR convened to Gram sabha and activities proposed expected outcomes benefits of implementing the programme are explained in case of any changes are proposed in the Gram sabha approval obtained by the Gram sabha and already singed of Mau paper.

STEP-9A **Attachment of detail estimate, cost and design:-**Estimating, Costing and design prepared technically According to plan in the micro watershed project and attached with the DPR.

STEP-9B **various type of mapping: -**

DPR prepared in the support of micro watershed project using various types of maps is as follows:

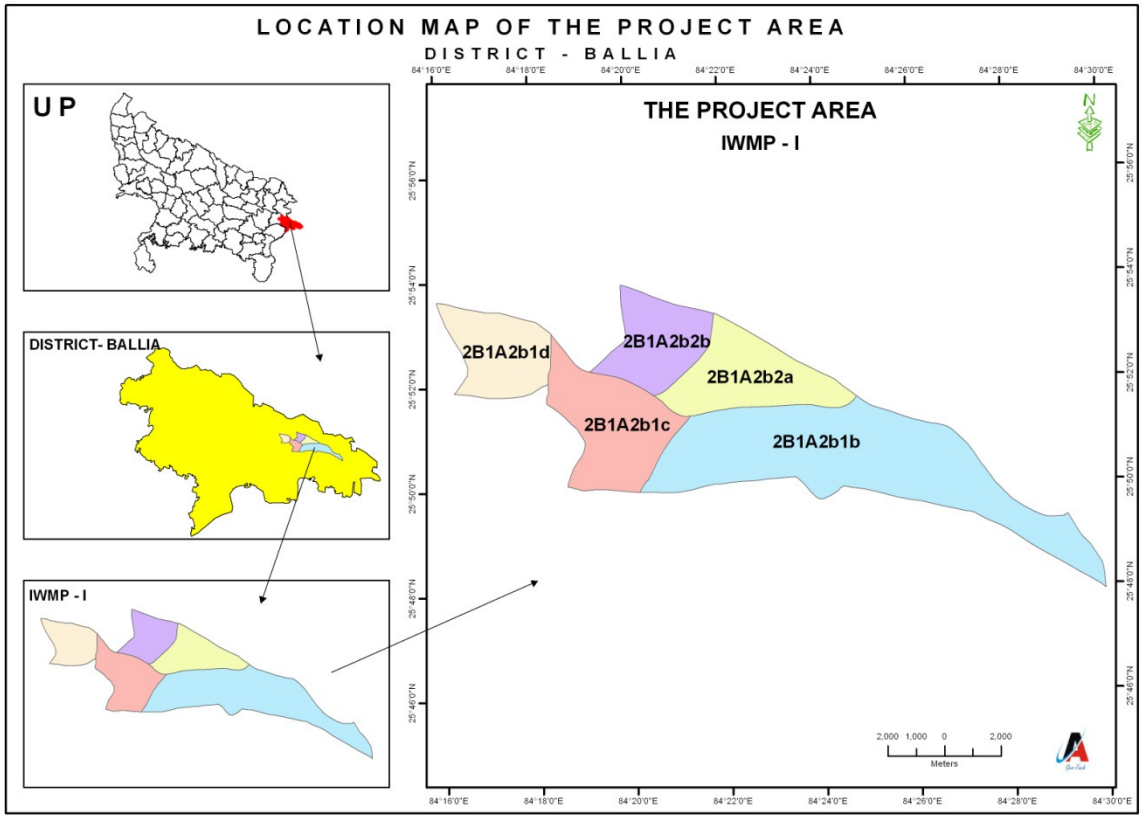
1. Cadastral map (Village)
2. Land use map/Land Cover map
3. Drainage/stream order map
4. Contour map
5. Slope map
3. Action Plan map
6. Micro watershed map
7. Digital Elevation Map
8. Satellite Image Map
9. Base map etc.

CHAPTER- 2

GENERAL DESCRIPTION OF THE PROJECT AREA

2.1 Location:

The IWMP-I, Ballia watershed in Reoti blocks of Ballia district is located on Ballia – Bansdih & Ballia-Varanasi highway and both about 30 km. away from Ballia head quarter & 5 to 10 km. from said blocks, which is between 25^0 47' 53.813''N to 25^0 53'53.506''N north latitudes and 84^0 15' 58.799'' E to $84^0$29' 57.913'' E longitude.



2.2 Climate condition of the Project Area

The watershed falls under the semi-arid region of tropical climate. The average annual precipitation is 800 mm spreading over 85 rainy days. Most of the rainfall (about 85 %) is received during July to September. The rainfall is of moderate to high intensity. The area receives on or scanty rainfall in the winter season. The temperature variation ranges from as high as 42^{o}C in the month of May- June to as low as 5^{o}C in December- January.

Table No.2.1: Average monthly rainfall of the last five years

Month	Year/Rainfall in mm.						Temperature c	
	2006	2007	2008	2009	2010	Average	Max.	Min.
January	57.2	0.0	41.9	17.3	11.8	25.6	12.0	3.0
February	2.1	136.8	46.8	20.1	52.2	51.6	9.0	6.5
March	99.7	163.1	0.0	26.9	5.8	59.1	14.0	10.0
April	20.3	41.2	47.9	43.5	4.7	31.52	22.0	16.0
May	112.0	33.1	57.9	49.1	38.2	58.06	32.0	26.25
June	166.5	129.7	359.1	55.2	118.1	165.72	43.0	28.0
July	482.9	247.2	325.8	330.5	325.1	342.3	38.0	25.0
August	394.9	548.5	396.1	403.7	346.4	417.92	33.5	22.0
September	189.0	95.2	111.8	196.3	250.2	168.5	28.0	19.5
October	31.7	2.1	30.4	9.4	12.9	17.3	22.0	14.0
November	7.0	0.0	0.0	10.8	13.3	6.22	17.5	10.5
December	28.0	19.7	1.0	0.0	67.7	23.28	14.0	3.0

Data presented in above table indicate that about 70 percent of the total annual rainfall is received in the summer monsoon during the pepiod of July to September that coincides with the kharif cropping period. July and August are the peak period of the rainfall. During winter and early summer months, westerly depressions cause light showers in the area are good for rabbi harvest. Generalli a rainfall of less than 30 mm per month indicates a dry month, because this amount of rain may not break the crust and even reach the upper layer of the moisture control section of the soil. Hence based on these criteria for a dry month, the number of dry months in the region attains the order of 6 or more from October to May.

2.3. Shape and Extent:-

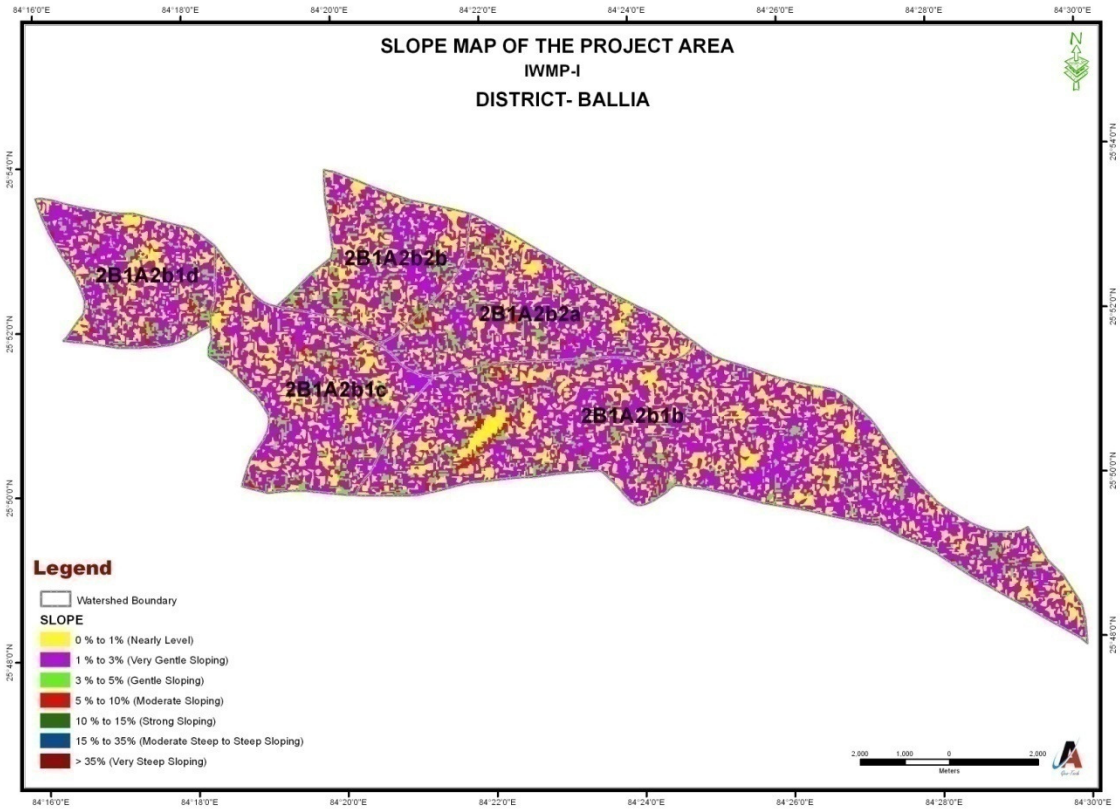
The shape of the watershed area is somewhat rectangular and liner with tail like structure on the lower portion. The maximum length and width of the watershed are near about 10 km North to South and East to west 7.1 km, respectively.

2.4. Physiography:-

Total area of the IWMP 1st Ballia is 5975.00 ha with treatable area 5378.00 ha. Elevation range and location of altogether five micro watershed shed are given below above

2.5 Slope

Spatial distribution of different slope classes was prepared using Arc GIS. Slope was divided into five classes' viz. 0-0.5, 0.5-1.0, 1-3, 3-5, and more than 5 per cent. Per cent areal extent of



different slope classes in IWMP-I micro-watershed. The dominant slope category in the micro-watershed were 1-3 per cent (60%) followed by 3-5 per cent (20%). In IWMP-I total 968.00 ha area under 0-0.5 % slope, 1653.00 ha under 0.5-1.00 %, 1046.00 ha under 3-5 % and 448.00 ha area under more than 5.00 slope

Table no. 2.2: Elevation range, longitude latitude, relief height difference etc

	Elevation of watershed from MSL		
Micro watershed	**Minimum**	**Maximum**	**Relief height difference**
2B1A2b1b	48	68	20
2B1A2b1c	55	69	14
2B1A2b1d	57	72	15
2B1A2b2a	54	70	16
2B1A2b2b	55	70	15

Table No.2.3: Soil Texture

S. No.	**Area in different Soil Group (ha)**			
	Light textured soil (sand, loamy sand)	**Medium textured soil (Sandy loam, loam, silt loam)**	**Heavy textured soil (Clayey)**	**Others specify ……..**
1-	1500	5000	969	-

Table No.2.4: Slope percentage in the project area

S. No.	Name of MWS & code	Slope range wise area (ha)						
		0-0.5%	0.5-1.0%	1-3%	3-5%	>5%		Others Specify
						Undulating	Terraced	
1	2	3	4	5	6	7	8	9
1	**Chhaprasarib 2B1A2b2a**	122.124	1200.100	300.123	400	0	0	0
2	**Jharkataha 2B1A2b1b**	50.250	1500.500	277.193	450	0	0	0
3	**Husenabad 2B1A2b1d**	15.50	800.500	59.014	185.50	0	0	0
4	**Mahadhanpur 2B1A2b2b**	50.30	850.500	64.121	100.20	0	0	0
5	**Udaha 2B1A2b1c**	23.24	1800.500	200.250	380.100	0	0	0

2.6 Area and Elevation:

The total area which is bounded by the Micro-watershed cluster project is 7469 ha. But the total area which is treated during this project is only 5378.00 ha. Highest of the projected area is 152 m above the mean sea level. Project area covered the number of villages.

Table No.2.5 Details of flood and drought in the project area

1 S. No.	Name of Micro Watershed	2	3	4		5
		Particulars	Villages	Periodicity		Not affected
				Annual	Any other (please specify)	
1		Flood	No. of villages	-	-	-
			Name(s) of villages	-	-	-
2		Drought	No. of villages	-	-	-
			Name(s) of villages	-	-	-

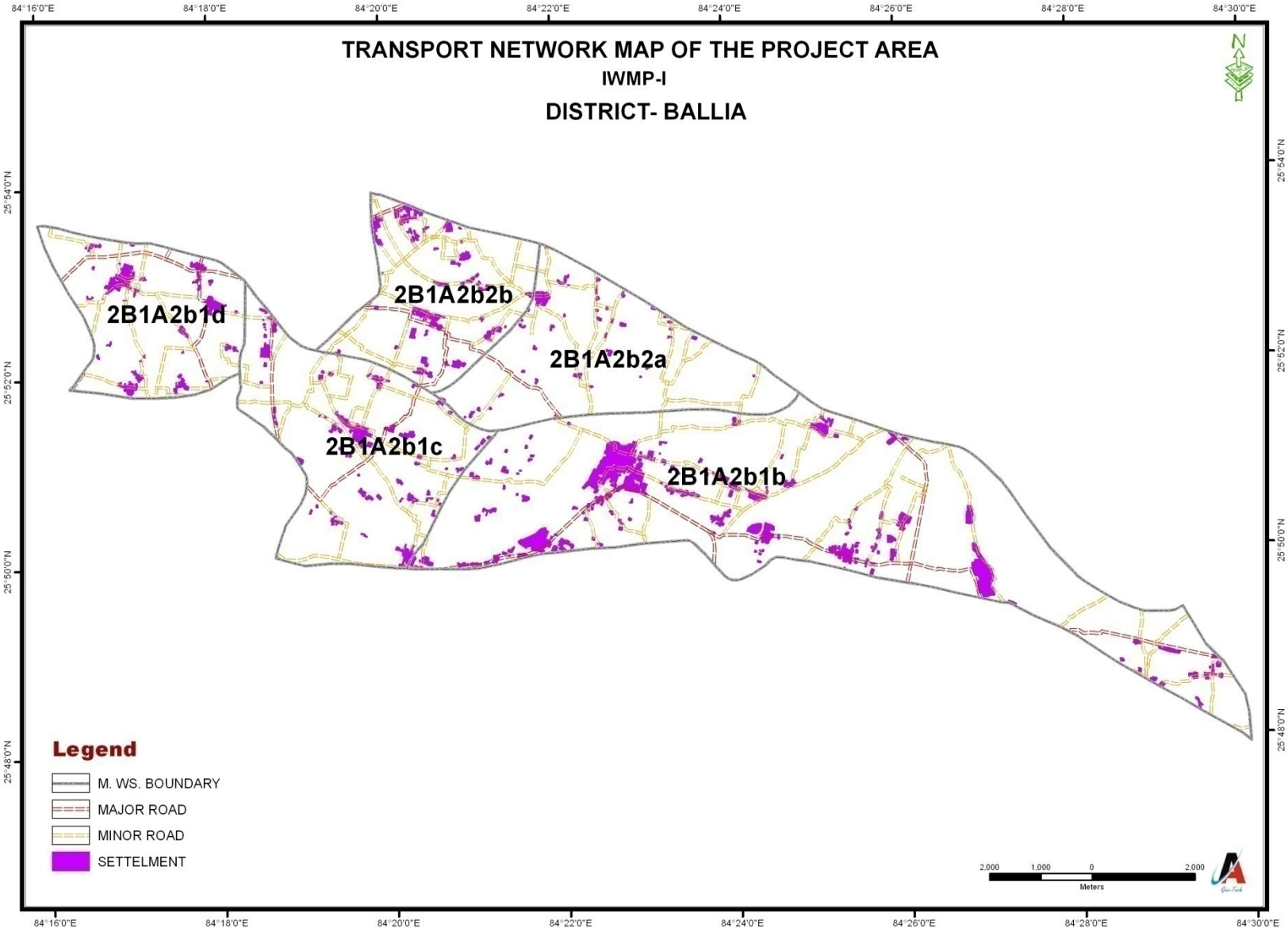
Table No.2.6: Microwatershed /GP Information

S.No.	Name of micro watershed with Code	Latitude / Longitude	Name of GP	Names of villages	Area of village included in MWS	Teatable area	Details of important /approach road with distance km
1	2	3	4	5	6	7	8
1.	Chhaprasarib 2B1A2b2a	25º 51’ 22.162’’ N to 25º 53’ 19.519’’ N & 84º 20’ 31.839’’ E to 84º 24’ 47.401’’ E	Kushar	Bhudirampur	110.76	70	7
				Choubeypur	115.67	85	6
			Sub Total		**226.43**	**155**	
			Chhaprasarib	Chhaprasarib	669.3250	490	2
				Umati	150	110	5
				Bhisiya	88.682	60	9
			Sub Total		**908.007**	**660**	
			Jamgharwa	Jamgharwa	145.55	95	4
				Lamuhi	106.33	74	1
			Sub Total		**251.88**	**169**	
			Naina	Kusouri Khurd	79.194	25	6
				Somnathpur	22.078	10	5
			Sub Total		**101.272**	**35**	
			Handia kalan	Newapur	29.7580	20	8
			Sub Total		477.758	**20**	
			Rampur (Margrib)	Rakhahar Noorpur	57	5	8
			Sub Total		57	5	
			Total		**1574.347**	**1044**	
2.		25º 47’ 53.74’’ N to 25º 51’ 39.108’’ N & 84º 20’ 10.494’’ E to 84º 29’ 57.872’’ E	Kushar	Arjimafi atardariya	15.9550	7	5
				Atardariya	58.449	40	6
				Kushar	291.6	240	4
			Sub Total		**366.004**	**287**	
			Kharika	Bhakhar	17.780	7	13
				Kharika	79.298	50	10
				Kachuha	8.461	3	9

	Jharkataha 2B1A2b1b			Parsiaya	49.589	35	7
				Kalyanpur	70.873	50	9
				Khirodhanpur	52.086	45	7
				Sonbarsa	43.379	20	15
			Sub Total		**321.466**	**210**	
			Jharkataha	Mathnagnath	6.114	2	15
				Jharkataha	164.08	120	12
			Sub Total		**170.194**	**122**	
			Chhaprasarib	Marauti	84.777	40	16
				Bhaisha	209.56	180	4
			Sub Total		**294.337**	**220**	
			Gayghat	Gayghat	125	95	4
			Sub Total		**125**	**95**	
			Bisunpur	Babhnaouli taluka reoti	55.81	35	8
				Gayghat taluka reoti	93.032	65	6
				Kunwa Piper	101.6	70	4
			Sub Total		**250.442**	**170**	
			Reoti (N.P.)	Reoti (N.P.)	300	156	1
			Sub Total		**300**	**156**	
			Total		**1827.443**	**1260**	
3.	Husenabad 2B1A2b1d	25º 52’ 3.3’’ N to 25º 53’ 38.464’’ N & 84º 16’ 18.707’’ E to 84º 18’ 6.214’’ E	Husenabad	Husenabad	867.28	725	2
			Sub Total		**867.28**	**725**	
			Bisouli	Bisouli	163.119	130	4
				Chakmiran	29.215	20	3
			Sub Total		**192.334**	**150**	
			Total		**1059.614**	**875**	
		25º 51’ 46.611’’ N to 25º 53’	Mahadhanpur	Mahadhanpur	188.19	130	8
			Sub Total		**188.19**	**130**	
			Handia khurd	Handia khurd	82.4240	40	15

4.	Mahadhanpur 2B1A2b2b	54.369'' N & 84º 19' 11.422'' E to 84º 21' 44.504'' E		Tahirpur	45.127	20	7
				Mahendrapur	76.416	45	6
				Babhnouli taluka handia	40.584	25	8
			Sub Total		**244.551**	**130**	
			Kusouri kalan	Kusouri kalan	175.464	135	4
			Sub Total		**175.464**	**135**	
			Handia Kalan	Handia Kalan	448	327	5
			Sub Total		**448**	**327**	
			Naina	Pathkhouli	24.536	5	6
			Sub Total		**24.536**	**5**	
			Singhi	Singhi	232.380	167	2
			Sub Total		**232.380**	**167**	
			Total		**1313.121**	**894**	
5.	Udaha 2B1A2b1c	25º 49' 56.015'' N to 25º 52' 59.241'' N & 84º 18' 18.335'' E to 84º 21' 17.463'' E	Udaha	Udaha	147.159	120	9
			Sub Total		**147.159**	**120**	
			Binha	Binha	159.740	132	8
			Sub Total		**159.740**	**132**	
			Pakaha	Pakaha	168.05	119	7
				Galaferpur	71.19	40	9
			Sub Total		**239.24**	**159**	
			Rajouli	Rajouli taluka sahatwar	200	165	5
				Bharouli	199.959	160	9
			Sub Total		**399.959**	**325**	
			Bhopatpur	Bhopatpur	8.762	3	7
			Sub Total		**8.762**	**3**	
			Naina	Jagdishpur taluka reoti	5.499	2	6
				Jagdishpur taluka handia	3.709	1	8
				Naina	322.512	275	4
				Balbir Naina	29.861	20	8
			Sub Total		**360.951**	**298**	
			Trikalpur	Trikalpur	60.625	40	5
				Kumhaila	36.637	25	7

				Bhagwanpur	38.209	28	8
			Sub Total		**135.471**	**93**	
			Chhapia	Mangeet chhap	53.415	35	6
				Dubey chhap	48.397	35	4
				Chhapia	90.751	75	5
				Kunwar Chhap	50	30	5
			Sub Total		**242.563**	**175**	
			Total		**1694.475**	**1305**	
			Grand Total		**7469**	**5378**	


TRANSPORT NETWORK MAP OF THE PROJECT AREA
IWMP-I
DISTRICT- BALLIA
N
84°16'0"E
84°18'0"E
84°20'0"E
84°22'0"E
84°24'0"E
84°26'0"E
84°28'0"E
84°30'0"E
25°54'0"N
25°52'0"N
25°50'0"N
25°48'0"N
2B1A2b1d
2B1A2b2b
2B1A2b2a
2B1A2b1c
2B1A2b1b
Legend
M. WS. BOUNDARY
MAJOR ROAD
MINOR ROAD
SETTELMENT
2,000
1,000
0
2,000
Meters

2.7 Area under major land use

The IWMP I[st] watersheds has diversified land uses namely agriculture, waste land (open scrub), seasonal water bodies etc. The varied present land use and area under different categories in watershed is shown in below table. The mixed land use followed in the watershed is almost similar in other parts of the U.P. During PRA exercise, the villagers prepared land use. One such map of village of IWMP I[st] watershed.

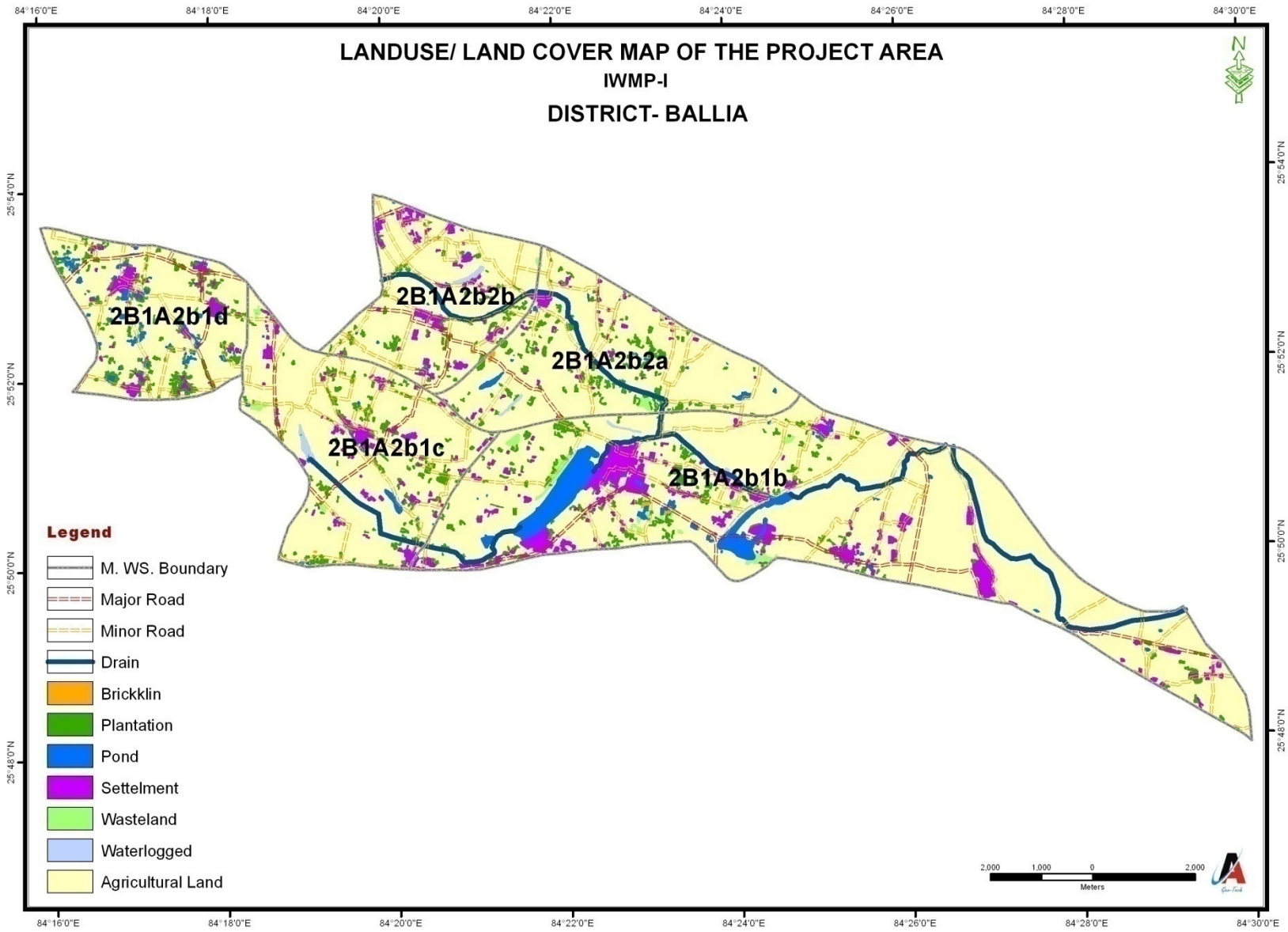
Table No.2.7: Project- IWMP- I

S.No.	Name of micro watershed with Code	Name of village	Cultivated and wasteland area of the village (ha)				Area details (ha) (falling within the projects)								
			Cultivated rainfed area	Cultivated irrigated area	Uncultivated wasteland/ fallow		Pvt. Agri. Land					Forest Land	Community land	Others (Pl. specify)	Total area (ha)
					Temp.	Permanent	Gen	SC	ST	OBC	Total				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Chhaprasarib (2B1A2b2a)	Bhudirampur	80	20	3	3.26	70	0	0	30	100	0	1.5	3	110.76
		Choubeypur	90	15	3	2.97	75	0	0	30	105	0	1.2	3.5	115.67
		Chhaprasarib	500	135	5	3.125	300	100	35	200	635	0	5.1	21.1	669.325
		Umati	100	35	3.1	2.2	35	0	0	100	135	0	3.7	6	150
		Bhisiya	50.100	20.100	2.101	3.181	50	0	0	20.2	70.2	0	1.2	12	88.682
		Jamgharwa	105	22	2.45	4	70	13	10	34	127	0	3.1	9	145.55
		Lamuhi	70	22	6	1.53	60	8	6	18	92	0	2.8	4	106.33
		Kusouri Khurd	50	24	1	1.294	50	0	0	24	74	0	0.9	2	79.194
		Sonathpur	16	5	0	1.078	6	0	0	15	21	0	0	1	22.078
		Handia Kalan	280	130	4	3.2	250	10	72	78	410	0	5.8	25	448
		Newapur	15	5	5.25	2.30	10	4	0	6	20	0	.7	1.5	29.7580
		Rakhahar Noorpur	35	15	2	2.3	30	5	0	15	50	0	0.5	2.2	57
	Total		**1391.1**	**448.1**	**36.901**	**30.378**	**1006**	**140**	**123**	**570.2**	**1839.2**	**0**	**26.5**	**90.3**	**2022.347**
2	Jharkataha (2B1A2b1b)	Arjimafi atardariya	9	4	1	.255	3	0	0	10	13	0	0.2	1.5	15.9550

		Atardariya	40	11	1.100	2.149	40	0	0	11	51	0	1.7	2.5	58.449
		Kushar	180	70	2	1.2	180	10	10	50	250	0	4.5	3.9	291.6
		Bhakhar	12	3	1	.28	5	0	0	10	15	0	0.6	0.9	17.780
		Kharika	49	26	1	.798	42	8	2	23	75	0	1.4	1.1	79.298
		Kachuha	6	2	.100	.361	5	0	0	3	8	0	0	0	8.461
		Parsiaya	30	15.189	1	.9	30	0	0	15.189	45.189	0	1	1.5	49.589
		Kalyanpur	50	10	4	2.173	30	0	0	30	60	0	1.9	2.8	70.873
		Khirodhanpur	40	8.286	1	.5	40	3	0.286	5	48.286	0	0.6	1.7	52.086
		Sonbarsa	30	11	1	.179	30	1	1	9	41	0	0.3	0.9	43.379
		Mathnagnath	3.714	2	0	.2	0	0	0	5.714	5.714	0	0	0.2	6.114
		Jharkataha	120	26.48	5	3	100	3.48	8	35	146.48	0	3.7	5.9	164.08
		Marauti	60	19	1.377	1	50	0	0	29	79	0	1.3	2.1	84.777
		Bhaisha	130	40	3.34	15	100	6	2	62	170	0	3.4	17.82	209.56
		Gayghat	91	20	2.1	4	100	0	0	11	111	0	2.6	5.3	125
		Babhnaouli taluka reoti	41	10	.5	1	41	1	1	8	51	0	0.9	2.41	55.81
		Gayghat taluka reoti	70.100	16.082	1.15	1.9	75	1.182	0	10	86.182	0	1.8	2	93.032
		Kunwa piper	70	25.4	1	2	80	0	0	15.4	95.4	0	1.1	2.1	101.6
		Reoti (N.P.)	150	89	2	25	150	30	9	50	239	0	5	29	300
	Total		**1181.814**	**408.437**	**29.667**	**61.895**	**1101**	**63.662**	**33.286**	**392.303**	**1590.251**	**0**	**32**	**83.63**	**1827.443**
3	Husenabad 2B1A2b1d	Husenabad	641.56	141.1	34.8	7.46	560	42	22	158.66	782.66	0	7.28	35.08	867.28
		Bisouli	110.2	35	5.8	3.291	86	15	12	32.2	145.2	0	3.1	5.8	163.119
		Chakmiran	19.2	7.6	.9	0.315	18	0	0	8.8	26.8	0	0	1.2	29.215
	Total		**770.96**	**183.7**	**41.5**	**11.066**	**664**	**57**	**34**	**199.66**	**954.66**	**0**	**10.38**	**42.08**	**1059.614**
4	Mahadhanpur 2B1A2b2b	Mahadhanpur	100	65	5	3.69	100	15	0	50	165	0	6.1	8.5	188.19
		Handia khurd	50	17	7.2	4.024	45	8	5	9	67	0	1.4	2.8	82.4240
		Tahirpur	30	8	3.2	2.27	25	0	0	13	38	0	0	1.7	45.127

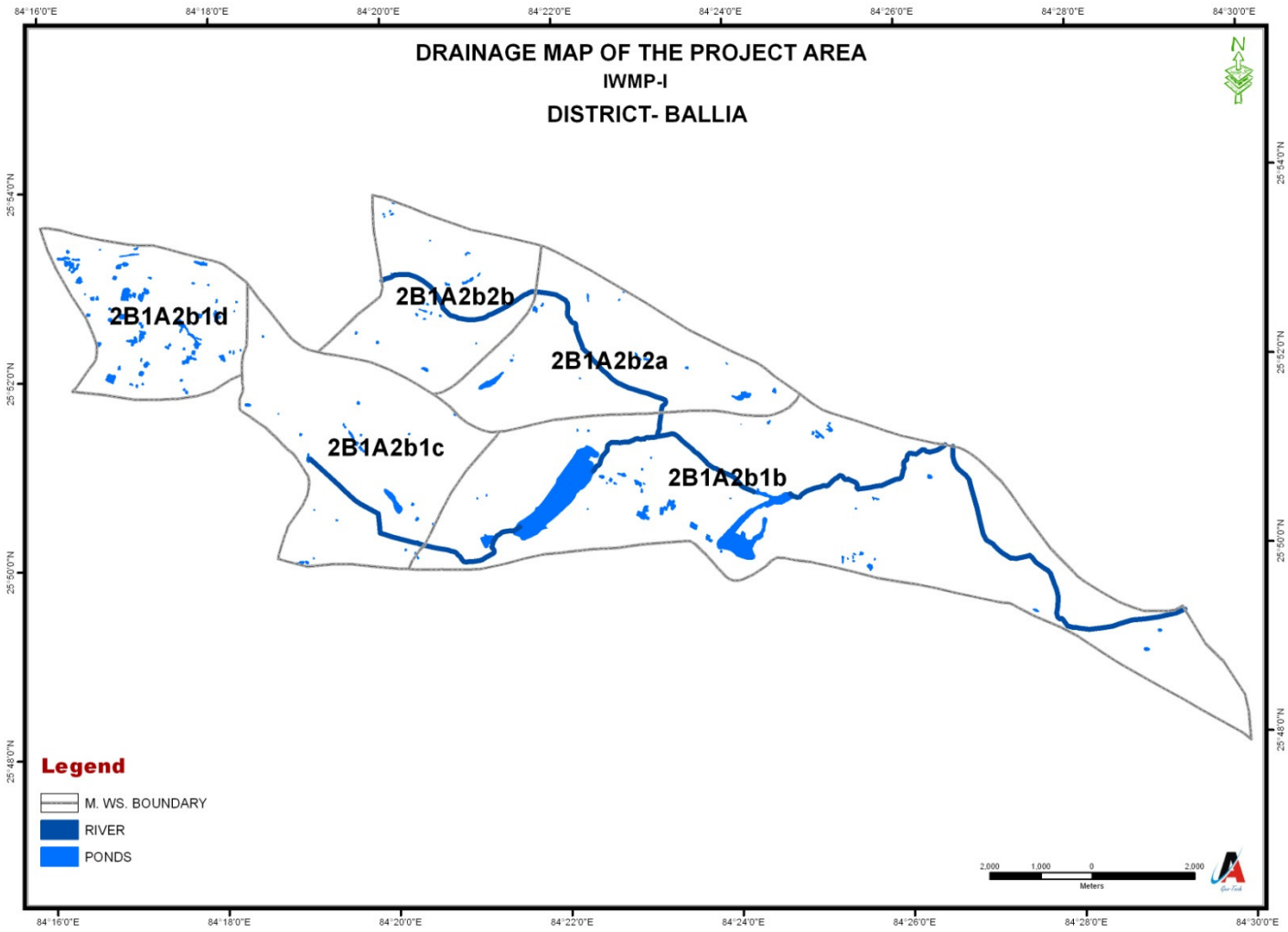
		Mahendrapur	55	11	4.3	2.516	50	0	0	16	66	0	0.8	2.8	76.416
		Babhnouli taluka handia	29	8	1.484	1	25	1	1	10	37	0	0	1.1	40.584
		Kusouri kalan	130	27	7.1	4.064	80	20	7	50	157	0	4.5	2.8	175.464
		Pathkhouli	17.4	3.6	1.9	0.736	17	0	0	4	21	0	0	0.9	24.536
		Singhi	140.9	72.9	5.8	3.9	90	14	6	103.3	213.9	0	2.9	5.98	232.380
	Total		**552.3**	**212.5**	**35.984**	**22.2**	**432**	**58**	**19**	**255.3**	**764.9**	**0**	**15.7**	**26.58**	**865.121**
5	Udaha 2B1A2b1c	Udaha	110.9	24.0	4.6	1.809	100	4	.9	30	134.9	0	1.6	4.25	147.159
		Binha	109.8	35.4	5.2	1.95	90	15	2	38.2	145.2	0	1.74	5.65	159.740
		Pakaha	110.2	36.9	6.9	3.9	90.8	18.9	5.4	32	147.1	0	1.05	9.10	168.05
		Galaferpur	41.6	23.9	1.6	0.89	41.2	0	0	24.3	65.5	0	1.1	2.1	71.19
		Rajouli taluka sahatwar	100	42.84	18	11	100	0	0	42.84	142.84	0	6.9	21.26	200
		Bharouli	130.8	38.6	14.7	5.879	120.8	0	0	66.6	169.4	0	2.9	17.08	199.959
		Bhopatpur	5.6	2.8	0.162	0	3.5	1.4	0	3.5	8.4	0	0	0.2	8.762
		Jagdishpur taluka reoti	3.9	1.3	0.199	0	3.5	0	0	1.7	5.2	0	0	0.1	5.499
		Jagdishpur taluka handia	25.1	6.3	2.4	1.29	21.4	0	0	10	31.4	0	0	0.2	3.709
		Naina	200	56	21.94	10.882	180	10	10	56	256	0	4.8	28.89	322.512
		Balbir Naina	21.1	7.7	0.56	0	18.3	1.2	1.3	8	28.8	0	0	0.5	29.861
		Trikalpur	41.6	14.1	1.2	1.085	36.2	2.1	1.085	16.315	55.7	0	0.6	2.04	60.625
		Kumhaila	28.1	6.4	1.047	0	22	0	0	12.5	34.5	0	0	1.09	36.637
		Bhagwanpur	29.3	6.2	1.6	0.069	22.2	0	0	13.231	35.5	0	0	1.04	38.209
		Mangeet chhap	38.2	10.02	1.4	1.195	33.4	0	0	14.82	48.22	0	1.4	1.2	53.415
		Dubey chhap	37.8	8.3	0.9	0.299	24.5	6	5.6	10	46.1	0	0	1.1	48.397
		Chhapia	59..9	23.4	2.4	1.271	52.1	8.4	4.571	18.22	83.3	0	1.7	2.08	90.751

										9					
		Kunwar chhap	40	6.717	1.1	0.083	40	0	0	6.717	46.717	0	0.2	1.9	50
	Total		**1074**	**350.877**	**85.908**	**41.602**	**999.9**	**67**	**30.856**	**404.952**	**1484.777**	**0**	**23.99**	**99.78**	**1694.475**
	Grand total		**3896.174**	**1252.737**	**144.052**	**125.539**	**3203**	**318.662**	**209.286**	**1417.463**	**5149.011**	**0**	**84.58**	**242.59**	**7469**



2.8 Drainage pattern:

Due to prevalence of mild to steep slopes and presence of a number of drainage lines in the watershed, the drainage system is adequate. The microwatershed cluster fall in Ghagra basin. There are few mazor drains in the cluster.



2.8.1. Description of Agro-climatic Zone & major agro ecological situations

An attempts has made to work at feasible extension strategy and research agenda needs for the district falls under agro

climatic east plain zone of Uttar Pradesh characterize by semi dry medium moisture availability with 180 –210 days growing season and sub humid climate with two dry season i.e. summer and winter and ustic typic soil moisture regimes. A deep thought has also been given to intensively and divisively suitable / adoptable forming system in order to fully utilize the natural resource available at the command of the farmers taking a holistic approach district divided in to following agro-ecological situation (AES) on the basis of soil type and irrigation facilities

AES	Characteristic	Area (%)	Representative village	Block
AES 1	Clay loam irrigated (karail)	36.08	Sohaon	Sohaon
AES 2	Loam irrigated	23.69	Kiriharapur	Sear
AES 3	Sandy loam irrigated	17.41	Deoli	Dubahar
AES 4	Water logged	13.34	Hathaouse	Maniar
AES 5	Flood prone	9.68	Maniar	Maniar

2.8.2. Soil types

The physiographic features are similar to that of associated soils of the tarai Himalayas and Awed plains soil moisture regimes are ustic typic and soil temperature regime is hyperthermic. In ustic moisture regime soils have limited moisture with strong retaining capacity and readily available when required for plant growth. In these regimes the soils are formed by the weathered rock quartzite, phyllite and schist parent material with soil texture of clay loam karail dominated (36.08%), loam (23.69), and sandy loam (17.41 %) are dominated in the district.

Table No.2.8: Details of soil erosion in the project area

S.N.	**Code of Micro Watershed**	**1**	**2**	**3**	**4**	**5**
		Cause	**Type of erosion**	**Area affected (ha)**	**Run off**	**Average soil loss**

					(mm/ year)	(Tonnes/ ha/ year)
		Water erosion				
	2B1A2b2a	a	Sheet	1000		15-20
		b	Rill	500		
		c	Gully	350		
		Total		1850		
	2B1A2b1b					
			Sheet	1150		15-20
			Rill	600		
			Gully	50		
		Total		1800		
	2B1A2b1d					
			Sheet	650		15-20
			Rill	200		
			Gully	100		
		Total		950		
	2B1A2b2b					
			Sheet	500		15-20
			Rill	350		
			Gully	150		
		Total		1000		
	2B1A2b1c		Sheet	1500		15-20
			Rill	500		
			Gully	100		
		Total		2100		

Table No. 2.9: Ground Water Status

S. No.	Name & Code of Micro watershed	Depth of Ground Water Table (Below Ground level) in Meter		No. of Observation well	Remarks
		Before Monsoon	After Monsoon		
1	2	3	4	5	6
1	Chhaprasarib 2B1A2b2a	12	7	25	-
2	Jharkataha 2B1A2b1b	14	8	10	-
3	Husenabad 2B1A2b1d	15	10	25	-
4	Mahadhanpur 2B1A2b2b	16	9	16	-
5	Udaha 2B1A2b1c	12	10	9	-

Table No.2.10: Irrigation Status

S.No.	Name & Micro Watershed with code	Gross Cultivated Area				Net Cultivated Area	Gross Irrigated Area				Net Irrigated Area	Rainfed Area
		Kharif	Rabi	Zaid	Total		Kharif	Rabi	Zaid	Total		
1	2	4	5	6	7	8	9	10	11	12	13	14

	Chhaprasarib 2B1A2b2a	920	1284	86	2290	1839.2	230	334	19	**583**	448.1	1391.1
										0		
2	Jharkataha 2B1A2b1b	810	875	90	1775	1590.25	225	239	19	**483**	408.37	1662.714
										0		
3	Husenabad 2B1A2b1d	943	430	32	1405	954.66	110	252	17	**379**	183.7	770.96
										0		
4	Mahadhanpur 2B1A2b2b	655	465	72	1192	764.90	350	160	33	**543**	212.50	732.23
										0		
5	Udaha 2B1A2b1c	985	738	70	1793	1484.78	385	221	23	**629**	350.87	1436.06
	Total of Project	**4313**	**3792**	**350**	**8455**	**6633.78**	**1300**	**1206**	**111**	**2617**	**1736.839**	**5993.134**

Table No. 2.11: Source wise Area Irrigated

S. No.	Name &Micro watershed with code	Canal Area	State Tube wells		Tanks		Open well		Bore wells		Lift irrigation		Others (Specify)		Total Irrigated Area	Remarks
			No.	Area	No.	Area	No.	Area	No.	Area	No.	Area	No.	Area		
1	2	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Chhaprasarib	-	5	20	-	-	-	-	72	423.	-	-	-	-	448.1	-

	2B1A2b2a									1						
2	Jharkataha 2B1A2b1b	-	10	18	-	-	-	-	90	380.37	-	-	-	-	408.37	-
3	Husenabad 2B1A2b1d	-	2	8	-	-	-	-	29	173.7	-	-	-	-	183.7	-
4	Mahadhanpur 2B1A2b2b	-	0	12	-	-	-	-	93	200.50	-	-	-	-	212.50	-
5	Udaha 2B1A2b1c	-	3	12	-	-	-	-	114	335.87	-	-	-	-	350.87	-
	Total of Project	**-**	**20**	**70**	**-**	**-**	**-**	**-**	**398**	**1563.04**	**-**	**-**	**-**	**-**	**89**	**-**

Table No.2.12: DETAILS OF COMMON PROPERTY RESOURCES IN THE PROJECT AREA

S. No.	Names of MWS with code	CPR Particulars	Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)			
			Pvt. persons	Govt. (specify deptt.)	PRI	Any other (Pl. Specify)	Pvt. persons	Govt. (specify deptt.)	PRI	Any other (Pl. Specify)
1	**Chhapra**	(i) Wasteland/ degraded	67.27	-	26.5	-	67.27	-	26.5	-

	sarib 2B1A2b2a	land								
		(ii) Pastures	-	-	-	-	-	-	-	-
		(iii) Orchards	10	-	-	-	-	-	-	-
		(iv) Village Woodlot	-	-	-	-	-	-	-	-
		(v) Forest	-	-	-	-	-	-	-	-
		(vi) Village Ponds/ Tanks	-	-	3.22	-	-	-	-	-
		(vii) Community Buildings	-	-	4.9	-	-	-	-	-
		(viii) Weekly Markets	-	-	-	-	-	-	-	-
		(ix) Permanent markets	-	-	-	-	-	-	-	-
		(x) Temples/ Places of worship	-	-	2.98	-	-	-	-	-
		(xi) Others (Pl. specify)	-	35.1	-	-	-	-	-	-
2	**Jharkataha 2B1A2b1b**	(xii) Wasteland/ degraded land	93.522	-	32	-	93.522	-	32	-
		(xiii) Pastures	-	-	-	-	-	-	-	-
		(xiv) Orchards	25	-	-	-	-	-	-	-
		(xv) Village Woodlot	-	-	-	-	-	-	-	-
		(xvi) Forest	-	-	-	-	-	-	-	-
		(xvii) Village Ponds/ Tanks	-	-	3.64	-	-	-	-	-
		(xviii) Community Buildings	-	-	15.5	-	-	-	-	-
		(xix) Weekly Markets	-	-	4	-	-	-	-	-
		(xx) Permanent markets	-	-	6	-	-	-	-	-
		(xxi) Temples/ Places of worship	-	-	2.90	-	-	-	-	-
		(xxii) Others (Pl. specify)	-	43.70	-	-	-	-	-	-
3	**Husenabad 2B1A2b1d**	(xxiii) Wasteland/ degraded land	52.566	-	10.38	-	52.566	-	10.38	-

		(xxiv) Pastures	-	-	-	-	-	-	-	-
		(xxv) Orchards	15	-	-	-	-	-	-	-
		(xxvi) Village Woodlot	-	-	-	-	-	-	-	-
		(xxvii) Forest	-	-	-	-	-	-	-	-
		(xxviii) Village Ponds/ Tanks	-	-	3.15	-	-	-	-	-
		(xxix) Community Buildings	-	-	4.5	-	-	-	-	-
		(xxx) Weekly Markets	-	-	-	-	-	-	-	-
		(xxxi) Permanent markets	-	-	-	-	-	-	-	-
		(xxxii) Temples/ Places of worship	-	-	.59	-	-	-	-	-
		(xxxiii) Others (Pl. specify)	-	20.5	-	-	-	-	-	-
4	**Mahadhanpur 2B1A2b2b**	(xxxiv) Wasteland/ degraded land	58.184	-	15.7	-	58.184	-	15.7	-
		(xxxv) Pastures	-	-	-	-	-	-	-	-
		(xxxvi) Orchards	12	-	-	-	-	-	-	-
		(xxxvii) Village Woodlot	-	-	-	-	-	-	-	-
		(xxxviii) Forest	-	-	-	-	-	-	-	-
		(xxxix) Village Ponds/ Tanks	-	-	2.84	-	-	-	-	-
		(xl) Community Buildings	-	-	7.1	-	-	-	-	-
		(xli) Weekly Markets	-	-	-	-	-	-	-	-
		(xlii) Permanent markets	-	-	-	-	-	-	-	-
		(xliii) Temples/ Places of worship	-	-	2.11	-	-	-	-	-
		(xliv) Others (Pl. specify)	-	25.50	-	-	-	-	-	-
5	**Udaha 2B1A2b1c**	(xlv) Wasteland/ degraded land	129.149	-	23.99	-	129.149	-	23.99	-

		(xlvi)Pastures	-	-	-	-	-	-	-	-
		(xlvii) Orchards	9	-	-	-	-	-	-	-
		(xlviii) Village Woodlot	-	-	-	-	-	-	-	-
		(xlix)Forest	-	-	-	-	-	-	-	-
		(l) Village Ponds/ Tanks	-	-	2.98	-	-	-	-	-
		(li) Community Buildings	-	-	5.2	-	-	-	-	-
		(lii) Weekly Markets	-	-	-	-	-	-	-	-
		(liii) Permanent markets	-	-	-	-	-	-	-	-
		(liv) Temples/ Places of worship	-	-	1.48	-	-	-	-	-
		(lv) Others (Pl. specify)	-	40.50	-	-	-	-	-	-

Table No.2.13: Microwatershed wise details of Crops, their Productivity and Production in IWMP-I

1. Major farming systems/enterprises (based on the analysis made by the KVK)

Category	Enterprises	Contribution of different enterprises (P/S/T/Q) towards annual income of family				
		AES-1	AES-2	AES-3	AES-4	AES-5
Large	Agriculture	P	P	P	P	P
	Horticulture	Q	Q	S	Q	S
	Animal husbendry	S	S	Q	S	Q
	Agriculture labour	-	-	-	-	-

	Nonfarm activity	T	T	T	T	T
Small	Agriculture	T	P	S	P	S
	Horticulture	P	T	P	T	P
	Animal husbandry	S	S	T	S	T
	Agriculture labour	Q	Q	Q	Q	Q
	Nonform activity	-	-	-	-	-
Marginal	Agriculture	Q	T	Q	T	T
	Horticulture	T	Q	S	Q	P
	Animal husbandry	P	S	T	P	Q
	Agriculture labour	S	P	P	S	S
	Nonform activity	-	-	-	-	-
Landless	Agriculture	-	-	-	-	-
	Horticulture	Q	Q	Q	Q	Q
	Animal husbandry	S	S	S	S	S
	Agriculture labour	P	P	P	P	P
	Nonfarm activity	T	T	T	T	T
P: Primary	**S: Secondary**	**T: Tertiary**	**Q:Quarternery**			

2. Area, Production and Productivity of major crops cultivated in the district

Sl. No	**Crop**	**Area (ha)**	**Production (MT)**	**Productivity (Qtl / ha)**

1.	Wheat	136832	3212160	23.48
2.	Barley	6337	105110	16.59
3.	Chick pea	3590	41700	11.62
4.	Field pea	2487	29750	11.96
5.	Rabi maize	7000	25000	35.71
6.	Lentil	20212	256290	12.68
7.	Rai/ Mustard	879	8760	9.97
8.	Linseed	01.0	-	1.3
9.	Potato	7336	1633580	222.68
10	Sugar cane	8339	3031060	363.48
11.	Tobacco	02.0	150	75.15
12.	Rice	122943	2196240	17.86
13.	Kharif Maize	24969	168040	13.67
14	Jowar	1557	17550	11.27
15	Bajara	1649	22230	13.48
16	Kharif Urd	10	20	2.37
17	Kharif Moong	09	20	2.34
18	Ground Nut	219	1460	6.68
19	Sunflower	06	100	16.70
20	Turmeric	02	30	18.09
21	Zaid Urd	11	50	4.90
22	Zaid Moong	249	1530	6.05
23	Zaid Maize	1254	17140	13.67
24	Pegion Pea	7939	51460	6.48

Name of GP:- Chhapra Sarib 2B1A2b2a

S.No	**Crop.**	**Area in (Ha.)**	**Productivity Qtl,/Ha**	**Production (Qtl.)**		**Remarks**
				Grain/Main product	**Fodder/Fuel/**	

								other Product.		
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed	
A	**Kharif**									
1	Rice	61	59	29	25	1769	1475	0	0	
2	Maze	47	111	15	12	705	1332	0	0	
3	Arhar	0	89	0	19	0	1691	0	0	
4	Urd/Mung	43	45	13	10	559	450	0	0	
5	vegetables (Cropwise)	56	61	40	35	2240	2135	0	0	
6	Fodder	33	51	45	65	1485	3315	1485	3315	
..	Other, specify									
B	**Rabi**									
1	Wheat	41	121	32	28	1312	3388	12	10	
2	Barley	13	53	12	10	156	530	0	0	
3	Masoor	19	59	13	11	247	649	0	0	
4	Gram	11	51	18	12	198	612	0	0	
5	Pea	13	46	14	15	182	690	2.3	1.3	
6	Mustard	7	33	12	12	84	396	0	0	
7	Potato	21	141	50	55	1050	7755	0	0	
8	vegetables (Cropwise)	13	33	55	60	715	1980	0	0	
9	Fodder	5	54	60	65	300	3510	300	3510	
..	Other, specify									
C	**Zaid**									
1	vegetables (Cropwise)	5	11	25	23	125	253	0	0	
2	Fodder	4	12	50	55	200	660	200	600	
3	Urd/Mung	7	15	14	11	98	165	5	0	
4	Sugarcane	3	0	40	0	120	0	0	0	
..	Other, specify									
	Total	**402**	**1045**	**537**	**523**	**11545**	**30986**	**2004.3**	**7436.3**	

Name of GP:- Jharkataha 2B1A2b1b

S.No	Crop.	Area in (Ha.)		Productivity Qtl,/Ha		Production (Qtl.)				Remarks
						Grain/Main product		Fodder/Fuel/ other Product.		
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed	

A	**Kharif**									
1	Rice	61	31	28	25	1708	775	0	0	
2	Maze	33	121	14	12	462	1452	0	0	
3	Arhar	0	91	0	18	0	1638	0	0	
4	Urd/Mung	21	51	13	11	273	561	0	0	
5	vegetables (Cropwise)	13	76	60	56	780	4256	0	0	
6	Fodder	5	53	60	56	300	2968	300	2968	
..	Other, specify									
B	**Rabi**									
1	Wheat	51	111	30	27	1530	2997	15	12	
2	Barley	17	41	12	10	204	410	0	0	
3	Masoor	11	61	13	11	143	671	0	0	
4	Gram	9	71	16	13	144	923	0	0	
5	Pea	13	43	15	13	195	559	2	1.4	
6	Mustard	5	44	13	11	65	484	0	0	
7	Potato	23	143	55	50	1265	7150	0	0	
8	vegetables (Cropwise)	11	31	60	55	660	1705	0	0	
9	Fodder	5	41	65	60	325	2460	325	2460	
..	Other, specify									
C	**Zaid**									
1	vegetables (Cropwise)	5	11	50	45	250	495	0	0	
2	Fodder	4	17	60	55	240	825	240	825	
3	Urd/Mung	7	23	13	11	91	253	0	0	
4	Sugarcane	3	0	35	0	105	0	2.5	0	
..	Other, specify									
	Total	**297**	**1060**	**612**	**539**	**8740**	**30582**	**884.5**	**6266.4**	

Name of GP:- Husenabad 2B1A2b1d

S.No	**Crop.**	**Area in (Ha.)**		**Productivity Qtl,/Ha**		**Production (Qtl.)**				**Remarks**
						Grain/Main product		**Fodder/Fuel/ other Product.**		
		Irrigated	**Rainfed**	**Irrigated**	**Rainfed.**	**Irrigated**	**Rainfed**	**Irrigated**	**Rainfed**	
A	**Kharif**									
1	Rice	51	41	30	28	1530	1148	0	0	

2	Maze	33	121	14	12	462	1452	0	0	
3	Arhar	0	89	0	18	0	1602	0	0	
4	Urd/Mung	17	61	12	10	204	610	0	0	
5	vegetables (Cropwise)	11	49	40	38	440	1862			
6	Fodder	5	41	45	42	225	1722	225	1722	
..	Other, specify									
B	**Rabi**									
1	Wheat	53	91	31	29	1643	2639	0	0	
2	Barley	7	39	12	10	84	390	0	0	
3	Masoor	11	51	16	14	176	714	0	0	
4	Gram	5	63	17	15	85	945	0	0	
5	Pea	0	34	0	18	0	612	0	0	
6	Mustard	0	27	0	12	0	324	0	0	
7	Potato	27	99	55	50	1485	4950	0	0	
8	vegetables (Cropwise)	11	27	50	45	550	1215	0	0	
9	Fodder	6	11	60	55	360	605	360	605	
..	Other, specify									
C	**Zaid**									
1	vegetables (Cropwise)	5	10	56	45	250	450	0	0	
2	Fodder	3	7	55	50	165	350	165	350	
3	Urd/Mung	7	15	13	11	91	165	0	0	
4	Sugarcane	2	0	35	0	70	0	1.5	0	
..	Other, specify									
	Total	**254**	**876**	**541**	**502**	**7820**	**21755**	**751.5**	**2677**	

Name of GP:- Mahadhanpur 2B1A2b2b

	Crop.	**Area in**		**Productivity**		**Production (Qtl.)**				**Remarks**
S.No		**(Ha.)**		**Qtl,/Ha**		**Grain/Main product**		**Fodder/Fuel/**		
								other Product.		
		Irrigated	**Rainfed**	**Irrigated**	**Rainfed.**	**Irrigated**	**Rainfed**	**Irrigated**	**Rainfed**	
A	**Kharif**									
1	Rice	57	21	30	27	1710	567	0	0	
2	Maze	17	119	15	13	255	1547	0	0	
3	Arhar	0	61	0	20	0	1220	0	0	

4	Urd/Mung	11	71	13	10	143	710	0	0	
5	vegetables (Cropwise)	19	47	50	45	950	2115	0	0	
6	Fodder	5	43	60	55	300	2365	300	2365	
..	Other, specify									
B	**Rabi**									
1	Wheat	51	111	33	30	1683	3330	12	25	
2	Barley	17	19	10	8	170	152	0	0	
3	Masoor	13	41	16	13	208	533	0	0	
4	Gram	11	43	18	15	198	645	0	0	
5	Pea	17	33	18	16	306	528	0	0	
6	Mustard	11	31	13	10	143	310	0	0	
7	Potato	23	91	60	55	1380	5005	0	0	
8	vegetables (Cropwise)	17	51	55	66	935	3366	0	0	
9	Fodder	7	41	70	65	490	2665	490	2665	
..	Other, specify									
C	**Zaid**									
1	vegetables (Cropwise)	10	25	45	40	450	100	0	0	
2	Fodder	7	15	60	55	420	825	420	825	
3	Urd/Mung	12	30	13	10	150	300	0	0	
4	Sugarcane	3	0	40	0	120	0	1.5	0	
..	Other, specify									
	Total	**308**	**893**	**619**	**553**	**10011**	**26283**	**1223.5**	**5880**	

Name of GP:- Udaha 2B1A2b1c

S.No	Crop.	Area in (Ha.)		Productivity Qtl,/Ha		Production (Qtl.) Grain/Main product		Fodder/Fuel/ other Product.		Remarks
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed	
A	**Kharif**									
1	Rice	25	20	30	27	750	540	0	0	
2	Maze	38	110	15	13	570	1430	0	0	
3	Arhar	0	90	0	18	0	1620	0	0	
4	Urd/Mung	33	60	13	10	429	600	0	0	
5	vegetables (Cropwise)	29	50	45	46	1305	2300	0	0	

6	Fodder	23	45	55	50	1265	2250	1265	2250	
..	Other, specify									
B	**Rabi**									
1	Wheat	35	125	32	30	1120	3750	16	24	
2	Barley	19	35	13	10	247	350	0	0	
3	Masoor	34	65	14	12	476	780	0	0	
4	Gram	22	75	16	14	352	1050	0	0	
5	Pea	26	85	16	12	416	1020	0	0	
6	Mustard	13	65	15	13	195	845	0	0	
7	Potato	44	130	50	45	2200	5850	0	0	
8	vegetables (Cropwise)	11	55	55	50	605	2750	0	0	
9	Fodder	7	50	60	55	420	2750	420	2750	
..	Other, specify									
C	**Zaid**									
1	vegetables (Cropwise)	9	25	55	50	495	2750	0	0	
2	Fodder	6	15	65	50	390	750	390	750	
3	Urd/Mung	8	30	13	10	104	300	0	0	
4	Sugarcane	3	0	45	0	135	0	3	0	
..	Other, specify									
	Total	**385**	**1130**	**607**	**515**	**11474**	**31685**	**2094**	**5774**	

General Comments and Recommendations for Rainfed Agriculture

The reduction in yield or failure of crops due to Agriculture draught and loam soil with low water holding capacity and growing of high water requiring crops namely Sugarcane is affecting soil productivity of the area. The improved technology of rainfed Agriculture and watershed bases is only solution of this problem. The droughts do not have much effect due to high water table and presence of progressive farmers.

Comments

1- Crop production and livestock rearing contribute 80% to the animal fodder and failure of rains caused distress.
2- Climatic variability has increased frequency of extreme weather events, risk and vulnerability.
3- Moderate to severe metrological drought due to rainfall deficit was analyzed.
4- Synergies of forest, wasteland, non-arable, arable land, rearing of animals, Micro-enterprising equity and enabling institutions may be optimized in the watershed management programme.
5- Surface water resources are least developed in the area.
6- Improving water use efficiency by upgrading the systems should be high priority.
7- Hybrids of Jowar, input intensive new varieties of pulses, oil seed, public distribution system, neglect of yanks, dug-wells and installing of tube-wells have altered traditional coping systems and increased risks, distress and vulnerability to droughts.
8- Horticulture is another important option to diversify income, employment, risks and vulnerability to rainfall uncertainties.
9- Citrus (Nimbu), Phalsa, and Jack fruit also have potentials of diversifying risks, distress and vulnerability.
10- Forest and scrublands have opportunities to improve productivity and other services of land cover.
11- Construction of water harvesting structures in forest can improve supplies of water for wild like and downstream agriculture.
12- More than 80% of all category farmers normally take produce to the market, 50% sales being in regulated market.

Recommendations

a- Medium term

1- Desilting, renovation, repairs of tanks, checkdams, deepening and recharging of dug-well may be taken up.
2- Creation of fodder and feed block banks should be immediate priority.
3- Deworming, Vaccination and other health measures are being recommended.
4- Mineral mixture should supplement the feed to prevent loss in fertility during drought.
5- There is a scope to improve efficiency of artificial insemination (AI) ervices.
6- Naturally growing Traditional drought hardy land races of citrus, Amla, Karounda and custard apple can be top worked with improved varieties detailed in the text to enhance their value.
7- Rainwater conservation in trenches, planting of indigenous fruits, fodder trees, shrubs, grasses, pasture legumes (Stylosanthes hamata) and promoting cut and carry system of grasses in place of grazing can improve functions and community service of the forest land.
8- Waving of interest, a part or whole of principal or deferred re-payment should be inbuilt into the loaning process to maintain credit eligibility of the farmers.
9- Integrated participatory management of inputs, natural resources, social capital and innovative institutions is recommended.
10- Digging of farm ponds and new open wells can also yield quick result and provide employment.
11- Extra short duration crops and varieties given in the text can reduce vulnerability to drought and arrangement of their seed bank is suggested.

12- Normal, medium, short and extra short duration crops and varieties are listed to match with the length of growing period and amount of rainfall while preparing crop contingency plans.

Long term

1. Long term strategy consists of professionally designed integrated participatory treatment of watershed form ridge to valley systems. Treatment of forest, non-arable and arable land should be unified into a common plan.
2. About 3-6% of net sown area of Project is irrigated with poor and erratic supplies. Ground water over utilization is predominant and open dug-wells provide much needed but non-dependable equity. Recharging of open dug-wells can yield quick result.
3. Surface and soil profile water storage may be promoted as new tub wells and dug wells are not allowed.
4. In situ conservation of rainwater, contour cultivation, sowing on ridge or raised productivity by 18-22% at reduced risk.
5. Seed multiplication and creation of seed banks of dry land crops is least priority of private sector and public sector should be geared up.
6. Seed replacement rate of pulses, oil seed and cereals with latest improved varieties may be doubled.
7. There is 25-35% yield gap and several suggestions on rotation, seed banks, marketing, intensification or diversification are made.
8. Intensification of the existing major four livestock production system has been recommended.
9. Goat rearing especially of Barberi is most economical.
10. Liquidation of animal assets is a normal practice of coping with drought. Providing consumption credit at reasonable interest can avoid distress sale of animal.
11. Castration of scrub bulls to reduce population of unproductive animals should be a long term measure.
12. Marketing of milk through Private-Producer and Consumer institution can add to the value, income and employment.
13. Setting up of a modern processing plant for meat, milk and animal related by product can improve benefits tremendously.
14. Productivity of forest resources should be improved through watershed management, planting fodder trees, shrubs and grasses to support animal husbandry.
15. Early bearing grafted Tamarind, pomegranate, fig (Anjir), guava and mango are quite hardy after their initial establishment and may be planted.
16. Drought tolerant tomatoes (Arka Vikas), rainfed onion, coriander, turmeric, ginger, beetle leaves have specific niche or micro region in the district Ballia.
17. Credit cycle in rainfed region should automatically switch over to two or three years under specified failures of rains.
18. Livelihood in rainfed region is highly diversified and credit against total income portfolio may be devised.
19. In order to prevent diverting of crop loans for other purpose consumptions loans for other purposes consumptions loan should also be introduced.
20. Weather based insurance (Barsha Bima) may take away some drawback of existing insurance system.
21. Almost 100% of fertilizers, seed, agro-chemicals, farm implements and animal feeds were purchased form private dealers and 90% of farmers sell some produce, purchase of inputs, warehousing, sample testing service, Banks, extension and electronic display system etc. should be set up under one roof of a modern market.

A- Crop Varieties recommended for West region of UP by different ICAR Institutes and SAUs.

Crop	Variety	Seed Production Agency
Gram	Poosa-256, Kwr-108,Rsg-936,Wcg-1,Wcg-2,Poosa-372 Pant G-186	Pantnagar, Poosa
	KGD-1168, KWR-108,Pragti	Lucknow
Pea	Rachna, KPMR-522, KPMR-144-1,Pant pea-42,Aman-2009	Pantnagar, Kanpur
	Azad, UPAS-120	Varanasi
Sugarcan	Co.Sa.8436,88230,95255,96268,767,8432,88216,	Ballia
	97264,92423,U.P.-0097	
	Co.J.-64,Co Pant-84212	
Urd	Pant U-30,Pdu-1,Pant Urd-31	Kanpur
	Azad 1, 2 and 3, Shekhar-1and 3	
Lentil	Narendra Masoor-1,Pant masoor-4 and 5	Kanpur
	Shekhar-2 and 3	
Paddy	Pant-10 and 12,Govind, Ratna, Narendra-80,Poosa Basmati-1,Saket-4	Faizabad
Wheat	H.U.W.-533,K-8027and 9351,U.P.-2338-2382-2425 W.H.-542,P.V.W.-343,502,550,590	Lucknow
Rai/ Mustard	Kanti. Maya. Urvashi, Ashirwad. Vardan	Varanasi
Moong	T-44,Pant moong-3 and 4, Narendra moong-1	Varanasi
	P.D.M.-11	

B- New Wheat Varieties of North West U.P. , Gujarat. South Rajasthan and Chattisgarh (Recommended by Indore of ICAR)

Stage of Cultivation	Time of Cultivation	N0. of Irrigation	Varieties		Productivity Qt./ha
			Chandausi/ Sharb-ati (Aestivum)	Kathia/ Malvi (Durum)	
	15-30 October	Rainfed (on residual moisture)	HW2004 (Amar)- Tall HI 1500 (Amirita)-Tall HI 1531 (Harshita)- Dwarf	HD 4672 (Malavrath) HI 8627 (Malavkirti)	15-20
Early	15 October to 10 November	1	HW 2004 (Amar) dwarf HI1500(Amtita) dwarf	HD 4672 (Malavrath) HI 8627 (Malavkirti	30-35
	5-25 November	4-Mar	HI1418(Nveen Chandausi) Hi 1479 (Swarna) Hi 1544 (Poorna) MPO 1106(Sudha)	Hi 8331 (Malavshri) HI 8498(Mahavshakti)	50-55
On time		6-Apr	GW-273 GW-322 GW-366	Shrivelled grain if last irrigation is nat given	50-55
Late	December	4	HI 1418 (Naveen Chandausi)	-	40-45

			HI 1445 (Abha) DL 788-2(Vidisha)		
		5	GW173 MP4010 HD2932(Pusa wheat-111)		
	January	5-Apr	Raj -3777 DL788-2(Vidisha) HI1418 (Naveen Chandausi) HI1454 (abha)	-	30-35
On time	Saline/ alkaline	5-Apr	Raj 3077 JOB666 Krl 1-4 Krl19	-	40-45

CHAPTER- 3

BASELINE SURVEY AND PARTICIPATORY RURAL APPRAISAL

3.1 SOCIO ECONOMIC ANALYSIS OF THE PROJECT

In the proposed watershed management plan of Tons, Ganga & Ghaghara, proper blending of bio engineering measures will be applied. The proposed land use plan will improve the land utilization index and crop diversification index significantly as compared to existing one. It will help in maintaining ecosystem integrity on sustained basis.

3.2 ECONOMIC ANALYSIS:

Economic analysis of the project is carried out by taking direct benefits and costs, considering 30 year project life at 10% discount rate. For the purpose of economic analysis, whole watershed development plan is divided into four sectors as agriculture (rainfed and irrigated), pure horticulture, agro-horticulture and silvi pastoral (Silvi-Pastoral + sericulture). Net present value (NPV), Benefit Cost Ratio (BCR) , Payback Period(PBR) and internal rate of return(IRR) criteria is Applied to judge the economic efficiency of each enterprise, sector and project as a whole.

Table No.3.1: Demographic Features with Ethnographic Details of Communities

SN	Name of Micro Watershed	Name of village	Total Population			Population of SC/ST		
			Total	Male	Female	Total	Male	Female
1	2	3	4	5	6	7	8	9
1	CHHAPRASARIB	Bhudirampur	643	325	318	0	0	0
		Choubeypur	356	186	170	0	0	0
		Chhaprasarib	3311	1742	1569	321	174	147
		Umati	381	199	182	0	0	0
		Bhisiya	492	261	231	8	5	3
		Jamgharwa	1008	505	503	149	72	77
		Lamuhi	831	429	402	215	105	110
		Kusouri Khurd	439	244	195	0	0	0
		Somnathpur	424	227	197	0	0	0
		Handia kalan	4965	2599	2366	779	410	369
		Newapur	127	69	58	24	14	10
		Rakhahae noorpur	1033	549	484	67	41	26
	Total		**14010**	**7335**	**6675**	**1563**	**821**	**742**
2	JHARKATAHA	Arjimafi atardariya	364	188	176	0	0	0
		Atardariya	527	273	254	0	0	0
		Kushar	1507	761	746	361	171	190
		Bhakhar	798	409	389	147	80	67
		Kharika	2404	1246	1158	29	16	13
		Kachuha	0	0	0	0	0	0
		Parsiaya	424	209	215	0	0	0
		Kalyanpur	77	49	28	0	0	0
		Khirodhanpur	988	600	388	50	30	20
		Sonbarsa	484	274	210	30	15	15
		Mathnagnath	398	207	191	0	0	0
		Jharkataha	4309	2220	2089	731	369	362
		Marauti	37	19	18	0	0	0
		Bhaisha	492	261	231	8	5	3
		Gayghat	988	600	388	50	30	20
		Babhnaouli taluka reoti	530	273	257	0	0	0
		Gayghat taluka reoti	770	410	360	60	40	20
		Kunwa piper	817	440	377	82	46	36
		Reoti (N.P)	22082	11318	10764	1578	800	778
	Total		**37996**	**19757**	**18239**	**3126**	**1602**	**1524**
3	**HUSENABAD**	Husenabad	5291	2713	2578	313	173	140

		Bisouli	2752	1440	1312	317	169	148
		Chakmiran	170	89	81	0	0	0
	Total		**8213**	**4242**	**3971**	**630**	**342**	**288**
4	**MAAHADHANPUR**	Mahadhanpur	1840	918	922	318	154	164
		Handia khurd	814	418	396	27	13	14
		Tahirpur	511	257	254	0	0	0
		Mahendrapur	133	63	70	0	0	0
		Babhnouli taluka handia	195	93	102	7	1	6
		Kusouri kalan	1516	782	734	127	70	57
		Pathkhouli	277	141	136	0	0	0
		Singhi	4605	2326	2279	1185	612	573
	Total		**9891**	**4998**	**4893**	**1664**	**850**	**814**
5	**UDAHA**	Udaha	1111	595	516	0	0	0
		Binha	2081	1114	967	381	204	177
		Pakaha	1389	709	680	379	206	173
		Galaferpur	52	24	28	0	0	0
		Rajouli taluka sahatwar	1207	612	595	155	70	85
		Bharouli	714	367	347	0	0	0
		Bhopatpur	1738	893	845	257	139	118
		Jagdishpur taluka reoti	50	30	20	0	0	0
		Jagdishpur taluka handia	33	18	15	0	0	0
		Naina	1290	683	607	542	278	264
		Balbir Naina	300	156	144	21	10	11
		Trikalpur	1738	911	827	78	45	33
		Kumhaila	136	69	67	0	0	0
		Bhagwanpur	24	14	10	0	0	0
		Mangeet chhap	265	129	136	0	0	0
		Dubey chhap	522	269	253	49	22	27
		Chhapia	999	536	463	63	37	26
		Kunwar chhap	0	0	0	0	0	0
	Total		**13649**	**7129**	**6520**	**1925**	**1011**	**914**
	Total of Project		**83759**	**43461**	**40298**	**8908**	**4626**	**4282**

Table No. 3.2: Details of seasonal migration from Project area: Pre-project status

S. No.	Names of Watershed	Name of village	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km, Approx)	Occupation during migration	Income from such occupation (Rs. in lakh)
1	2	3	4	5	6		7	8
	CHHAPRASARIB	Bhudirampur	100	120-180	Employment	500	wages	14-20
		Choubeypur	70	120-180	Employment	700	wages	10-15
		Chhaprasarib	800	120-180	Employment	500	wages	115-120
		Umati	60	120-180	Employment	600	wages	8-13
		Bhisiya	90	120-180	Employment	500	wages	12-17
		Jamgharwa	120	120-180	Employment	800	wages	17-22
		Lamuhi	140	120-180	Employment	650	wages	20-25
		Kusouri Khurd	95	120-180	Employment	750	wages	13-18
		Somnathpur	125	120-180	Employment	500	wages	18-23
		Handia kalan	1700	120-180	Employment	600	wages	244-250
		Newapur	30	120-180	Employment	600	wages	4-9
		Rakhahar noorpur	300	120-180	Employment	1000	wages	43-48
	Total		**3630**					
2	JHARKATAHA	Arjimafi atardariya	100	120-180	Employment	650	wages	14-19
		Atardariya	120	120-180	Employment	555	wages	17-22
		Kushar	110	120-180	Employment	345	wages	15-20
		Bhakhar	175	120-180	Employment	785	wages	25-30
		Kharika	270	120-180	Employment	888	wages	38-43
		Kachuha	0	0	0	0	0	0
		Parsiaya	175	120-180	Employment	1000	wages	25-30
		Kalyanpur	10	120-180	Employment	500	wages	1.44-2.00
		Khirodhanpur	303	120-180	Employment	500	wages	43-48
		Sonbarsa	204	120-180	Employment	650	wages	29-34
		Mathnagnath	133	120-180	Employment	500	wages	19-24

		Jharkataha	1250	120-180	Employment	600	wages	180-185
		Marauti	5	120-180	Employment	450	wages	.50-2.00
		Bhaisha	100	120-180	Employment	400	wages	14-19
		Gayghat	310	120-180	Employment	450	wages	44-49
		Babhnaouli taluka reoti	120	120-180	Employment	1590	wages	17-22
		Gayghat taluka reoti	201	120-180	Employment	300	wages	28-33
		Kunwa piper	210	120-180	Employment	610	wages	30-35
		Reoti (N.P)	1950	120-180	Employment	1450	wages	300-310
	Total		**5746**					
3	**HUSENABAD**	Husenabad	1200	120-180	Employment	600	wages	172-177
		Bisouli	380	120-180	Employment	500	wages	54-59
		Chakmiran	30	120-180	Employment	400	wages	4-9
	Total		**1610**					
4	**MAAHADHANPUR**	Mahadhanpur	500	120-180	Employment	500	wages	72-77
		Handia khurd	200	120-180	Employment	700	wages	28-33
		Tahirpur	100	120-180	Employment	550	wages	14-19
		Mahendrapur	50	120-180	Employment	600	wages	7-12
		Babhnouli taluka handia	50	120-180	Employment	700	wages	7-12
		Kusouri kalan	500	120-180	Employment	300	wages	72-77
		Pathkhouli	70	120-180	Employment	400	wages	10-15
		Singhi	1950	120-180	Employment	1450	wages	300-310
Total			**3420**					
5	**UDAHA**	Udaha	350	120-180	Employment	500	wages	50-55
		Binha	700	120-180	Employment	550	wages	100-110
		Pakaha	330	120-180	Employment	600	wages	45-50
		Galaferpur	15	120-180	Employment	500	wages	2-5
		Rajouli taluka sahatwar	450	120-180	Employment	700	wages	60-70
		Bharouli	180	120-180	Employment	800	wages	20-30
		Bhopatpur	390	120-180	Employment	900	wages	50-60
		Jagdishpur taluka reoti	10	120-180	Employment	500	wages	1-5

		Jagdishpur taluka handia	10	120-180	Employment	1200	wages	1-5
		Naina	500	120-180	Employment	700	wages	70-80
		Balbir Naina	100	120-180	Employment	600	wages	10-20
		Trikalpur	600	120-180	Employment	500	wages	85-90
		Kumhaila	40	120-180	Employment	1000	wages	5-10
		Bhagwanpur	10	120-180	Employment	1200	wages	1-5
		Mangeetchhap	100	120-180	Employment	500	wages	15-25
		Dubey chhap	200	120-180	Employment	700	wages	30-40
		Chhapia	300	120-180	Employment	600	wages	50-60
		Kunwar chhap	0	0	0	0	0	0
	Total		**4285**					
	Total of Project		**18691**					

Table No. 3.3: Details of infrastructure in the project areas

S N	Name of Micro Watershed	Parameters		Status			
1	2	4		5			
1	CHHAPRASARIB	(i)	villages connected to the main road by an all-weather road	yes			
		(ii)	Village provided with electricity	10			
		(iii)	No. of households without access to drinking water	45			
		(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 11	(S) 4	(HS) -	(VI) -
		(v)	No. of villages with access to Primary Health Centre	N.A			
		(vi)	No. of villages with access to Veterinary Dispensary	N.A			
		(vii)	No. of villages with access to Post Office	2			
		(viii)	No. of villages with access to Banks	1			
		(ix)	No. of villages with access to Markets/ mandis	N.A			
		(x)	No. of villages with access to Agro-industries	-			
		(xi)	Total quantity of surplus milk deficit	NIL			
		(xii)	No. of milk collection centre's (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) -	(S) -	(PA) 2	(O) 5
		(xiii)	No. of villages with access to Anganwa di Centre	12			
		(xiv)	Any other facilities with names of villages (please specify)	-			
2	JHARKATAHA	(i)	Name of villages connected to the main road by an all-weather road	yes			
		(ii)	Village's Name provided with electricity	24			
		(iii)	No. of households without access to drinking water	76			
		(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 24	(S) 15	(HS) 2	(VI) -
		(v)	No. of villages with access to Primary Health Centre	4			

		(vi)	Names of villages with access to Veterinary Dispensary	2			
		(vii)	Names of villages with access to Post Office	1			
		(viii)	Names of villages with access to Banks	1			
		(ix)	Names of villages with access to Markets/ mandis	1			
		(x)	Names of villages with access to Agro-industries	-			
		(xi)	Total quantity of surplus milk deficit	NIL			
		(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) -	(S) -	(PA) 3	(O) 20
		(xiii)	Name of villages with access to Anganwadi Centre	19			
		(xiv)	Any other facilities with names of villages (please specify)	-			
3	**HUSENABAD**	(i)	Name of villages connected to the main road by an all-weather road	yes			
		(ii)	Village's Name provided with electricity	yes			
		(iii)	No. of households without access to drinking water	84			
		(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 2	(S) 1	(HS) -	(VI) -
		(v)	Names of villages with access to Primary Health Centre	1			
		(vi)	Names of villages with access to Veterinary Dispensary	-			
		(vii)	Names of villages with access to Post Office	-			
		(viii)	Names of villages with access to Banks	-			
		(ix)	Names of villages with access to Markets/ mandis	-			
		(x)	Names of villages with access to Agro-industries	-			
		(xi)	Total quantity of surplus milk deficit	NIL			
		(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) -	(S) -	(PA) 2	(O) -
		(xiii)	Name of villages with access to Anganwadi Centre	2			
		(xiv)	Any other facilities with names of villages (please specify)	-			
4	**MAHADHANPUR**	(i)	Name of villages connected to the main road by an all-weather road	yes			
		(ii)	Village's Name provided with electricity	yes			
		(iii)	No. of households without access to drinking water	47			
		(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 14	(S) 5	(HS) 1	(VI) -

		(v)	Names of villages with access to Primary Health Centre	4			
		(vi)	Names of villages with access to Veterinary Dispensary	2			
		(vii)	Names of villages with access to Post Office	2			
		(viii)	Names of villages with access to Banks	1			
		(ix)	Names of villages with access to Markets/ mandis	-			
		(x)	Names of villages with access to Agro-industries	-			
		(xi)	Total quantity of surplus milk deficit	-			
		(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) -	(S) 2	(PA) -	(O) -
		(xiii)	Name of villages with access to Anganwadi Centre	9			
		(xiv)	Any other facilities with names of villages (please specify)	-			
5	**UDAHA**	(i)	Name of villages connected to the main road by an all-weather road	yes			
		(ii)	Village's Name provided with electricity	yes			
		(iii)	No. of households without access to drinking water	47			
		(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 14	(S) 5	(HS) 1	(VI) -
		(v)	Names of villages with access to Primary Health Centre	4			
		(vi)	Names of villages with access to Veterinary Dispensary	2			
		(vii)	Names of villages with access to Post Office	2			
		(viii)	Names of villages with access to Banks	1			
		(ix)	Names of villages with access to Markets/ mandis	-			
		(x)	Names of villages with access to Agro-industries	-			
		(xi)	Total quantity of surplus milk deficit	-			
		(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) -	(S) 1	(PA) -	(O) -
		(xiii)	Name of villages with access to Anganwadi Centre	13			
		(xiv)	Any other facilities with names of villages (please specify)	-			

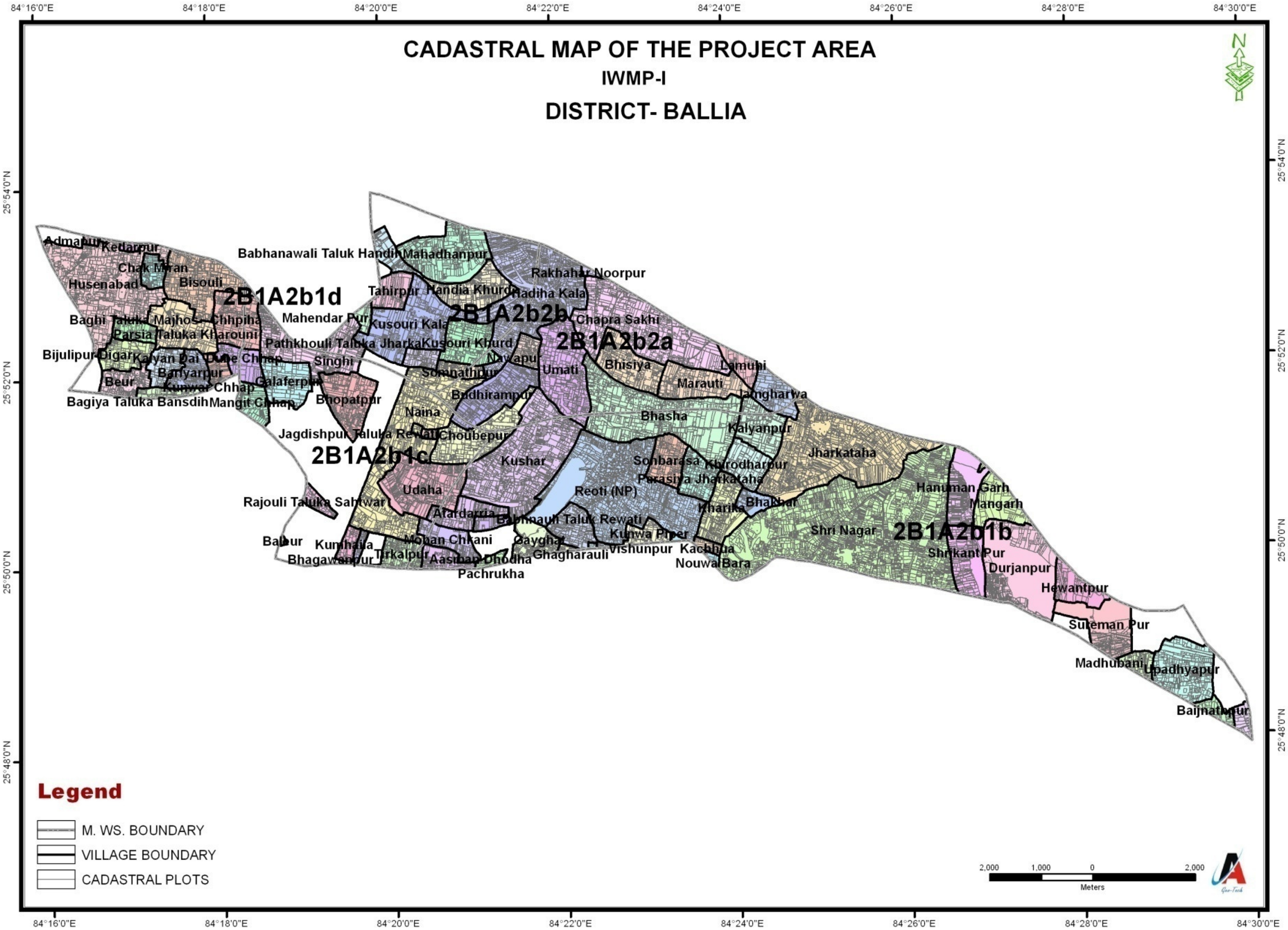

CADASTRAL MAP OF THE PROJECT AREA
IWMP-I
DISTRICT- BALLIA
2B1A2b1d
2B1A2b2b
2B1A2b2a
2B1A2b1c
2B1A2b1b
Admapur
Kedarpur
Chak Miran
Husenabad
Bisouli
Babhanawali Taluk Handih
Mahadhanpur
Rakhahar Noorpur
Tahirpur
Handia Khurd
Radiha Kala
Mahendar Pur
Kusouri Kala
Chapra Sakhi
Kusouri Khurd
Pathkhouli Taluka Jharka
Singhi
Nawapur
Umati
Bhisiya
Lamuhi
Marauti
Jangharwa
Somnathpur
Budhirampur
Bhopatpur
Galaferpur
Naina
Bhasha
Kalyanpur
Jharkataha
Jagdishpur Taluka Rewati
Choubepur
Kushar
Sonbarasa
Khrodharpur
Parasiya Jhatkataha
Hanuman Garh
Mangarh
Udaha
Reoti (NP)
Kharika
Bhakhar
Rajouli Taluka Sahtwar
Afardarria
Barhnauli Taluk Rewati
Kunwa Piper
Shri Nagar
Mohan Chhani
Gayghat
Vishunpur
Kachhua
Shrikant Pur
Babur
Kumhaila
Bhagawanpur
Tirkalpur
Aashapur Dhodha
Ghagharauli
Nouwal Bara
Durjanpur
Pachrukha
Hewantpur
Sulteman Pur
Madhubani
Upadhyapur
Baijnathpur
Baghi Taluka Majhos
Chhpiha
Parsia Taluka Kharouni
Bijulipur Digar
Kalyan Dai
Dube Chhap
Bariyarpur
Beur
Kunwar Chhap
Bagiya Taluka Bansdih
Mangit Chhap
Legend
M. WS. BOUNDARY
VILLAGE BOUNDARY
CADASTRAL PLOTS
2,000
1,000
0
2,000
Meters
84°16'0"E
84°18'0"E
84°20'0"E
84°22'0"E
84°24'0"E
84°26'0"E
84°28'0"E
84°30'0"E
25°54'0"N
25°52'0"N
25°50'0"N
25°48'0"N

Table No.3.4: Livestock Population

S. N.	Name of Micro watershed with code.	Cow		Buffalow		Ox/Bull	Goat	Sheep	Piggeries	Poultry			Other specify
		Desi	Crossed	Desi	Murrah					Broiler	Layers	Total	
1	2			5	6	7	7	8	9	10	11	12	13
1	**Chhaprasarib 2B1A2b2a**	725	220	1050	0	70	300	375	80	20	50	2890	-
2	**Jharkataha 2B1A2b1b**	930	300	1320	0	80	370	685	110	30	70	3895	-
3	**Husenabad 2B1A2b1d**	700	200	1000	0	100	250	400	75	20	60	2805	-
4	**Mahadhanpur 2B1A2b2b**	750	250	1050	0	50	275	450	60	40	80	3005	-
5	**Udaha 2B1A2b1c**	850	300	1275	0	70	350	650	95	50	100	3740	-
	Total of Project	**3955**	**1270**	**5695**	**0**	**370**	**1545**	**2560**	**420**	**160**	**360**	**16335**	-

Table No.3.5: Details of Livestock Productivity

SN	Name of Micro watershed with code	Milk Production (Liter Per day)				Goatry	Poultry		Piggeries weight Kg/Pig
		Cows		Buffalos		Weight in Kg/goat	Broiler Weight in Kg/ Brl	Layers No. of eggs/day	
		Desi	Crossed	Desi	Murrah				
1	2	4	5	6	7		9	10	11
1	**Chhaprasarib 2B1A2b2a**	2.25	3.70	2.50	0	25	1.5	350	39
2	**Jharkataha 2B1A2b1b**	2.15	3.40	2.70	0	28	2.5	560	45
3	**Husenabad 2B1A2b1d**	2.35	3.50	2.50	0	30	1.9	300	40
4	**Mahadhanpur 2B1A2b2b**	2.40	3.60	2.60	0	25	2.5	560	41
5	**Udaha 2B1A2b1c**	2.10	3.50	2.70	0	27	1.8	700	38

Table No.3.6: Horticulture Status

S. N.	Name of micro watershed with code	Name of Important horticultural crop					
		Whole Fruit Crop			Scattered Fruit Crop		
		Area ha.	Productivity qtl/ha	Production qtls	No.	Productivity qtl/No.	Production qtls
1	2	5	6		7	8	
1	**Chhaprasarib 2B1A2b2a**	10	25	250	40	2.0	80
2	**Jharkataha 2B1A2b1b**	25	22	550	300	1.5	450
3	**Husenabad 2B1A2b1d**	15	24	360	30	2.4	72
4	**Mahadhanpur 2B1A2b2b**	12	25	300	20	2.0	40
5	**Udaha 2B1A2b1c**	9	22	198	350	2.5	875
	Total of Project	**71**	**118**	**1658**	**740**	**10.4**	**1517**

HORTICULTURE DEVELOPMENT FOR WATERSHED MANAGEMENT

It's a matter of proud that district Ballia is very famous for agro forestry (field boundary and inter cropping) and horti-agri system. There should be good examples of two to three tier of horticulture system having cultivation of citrus under mango tress. How ever the horticulture department may try three tier systems with the following trees.

1. Ginger/Turmeric-Citrus-Mango } Karonda on orchard boundary as
2. Ginger/Turmeric-Citrus-Mango } productive and protective fence

The in situ water harvesting techniques should be used for growing trees in such a way that each tree has its own micro catchment area. The success of the conservation of horticulture entirely depends on the selection of economically viable hardy varieties of fruit crops resistant to moisture stress or drought and other adverse climate conditions. The fruit crops selected for degraded lands must be such that their maximum growth take place during the period of maximum water availability in the soil and should have low demand.

The main constraints which restrict development of the horticulture land use in degraded lands are enumerated below:

Constraints in rainfed Horticulture Adoption without tube wells.

(a) Basic constraints

1- Lack of suitable agro-techniques for degraded lands
2- Lack of trained resource persons
3- Inadequate dissemination of the technologies
4- Lack of community approach
5- High biotic interference
6- Lack of infrastructure including marketing.

(b) Soil constraints

1- Poor nutrient status of the soil
2- Physical impediment
3- Moisture stress.

(c) Plant related constraints

1- Poorly survival zone
2- Problem of plant establishment
3- Physiological disorders
4- Fruit drop and poor productivity
5- Incidence of insects-pests.

However, apart from the above mentioned constraints, the major bottleneck in horticulture development are poor technological advancements, high initial establishment cost, high input demand, timely operation and seasonal shortage of labours, etc.

Concepts and Advantages of Conservation Horticulture in wasteland

The project area has network of rainfed and irrigated orchard and agri-horty system. Conservation horticulture or horticulture land use based on soil and water conservation principle is a suitable alternative for utilization and management of land under rain fed conditions. Thus horticulture development in

watershed management appears to be the most appropriate technique for sustained productivity as well as for restoration of degraded lands. In fact, horticulture system meets all the basic needs-food, fruits, fodder, fuel and timber besides, providing employment and sustaining a number of products for industries.

The fruit trees grown with crops can provide fuel from pruned shoots and dried branches, leaf fodder for animals and leaf litter that can be utilized as mulch material and organic matter the leaf litter of deciduous fruit trees not only protects the top soil from the impact of raindrops but also improve soil structure, reduces evapo-transpiration, increases infiltration and add to the nutrient status of soil. Therefore conservation based horticulture land use system assumes great significance as fruit trees on degraded lands provide higher returns and offer alternative opportunity in non-arable areas where cropping may not be possible. Rainfed and eroded sand covered area needs planting of seedling at a deeper depths having soil with higher water holding capacity.

1- Selection of Suitable Fruits variety:-

For the success of conservation horticulture, selection of hardy varieties resistant to diseases and pests and use of local or other hardy root stocks for raising fruit-trees is of great importance. The major part of the reproductive cycle is. Period from flowering to fruiting must also fall during maximum water availability period and the root ripening must be completed before the onset of dry summer (April-May).

Ber, Guava, Karonda, Bel, Amla, Lemon, and Mango etc. are the plants which fulfill this requirement and all these fruit plants are most suitable for West U.P. region under rainfed condition. The project area mainly mango and peach plantation with intercropping.

2- Planting Techniques:-

For degraded lands, pits should be dug of 1m x 1m x 1m size, the excavated soil is mixed with Farmyard Manure (FYM) @ 5-10kg/pit with doses of potash and phosphorous and some insecticide / pesticide (numicide / aldrex) for prevention of white ant. Planting of the fruits plants should be done with the onset of monsoon.

3-Use of Root Stokes:-

Budding and grafting on the wild root stock gives benefit of the establishment root and in turn provides better quality fruits with high field potential. For example, Ziziphus Mauritian, a wild ber can be successful budded with scion of improved cultivars, this practice is only successful where sizable patch of wild root stock is available. The budded/grafted stock needs intensive management as it is required to be protected from the wild animals, birds, insects, pests etc. The wild root stock develops efficient tap root to provide moisture and nutrients to the scion. Amla and Bel are other examples of raising the improved cultivation the wild root stock.

4-In Situ Water Harvesting:-

Since on sandy soil, runoff water is considerably poor, therefore, it should be harvested and used. The run off can be utilized for growing fruit plants in such a way that each tree in the established plants is at the time of fruit setting and fruiting. Moisture available at this critical period improves the fruit yield.

Runoff water will be harvested and stored in tanks during the rains. The stored water will be utilized at the time when the fruit trees show moisture stress during dry months. Counter trenches will dug between the rows of fruit trees because this is effective in conserving moisture and providing soil erosion. The tube well irrigated area has more then 20% land under mango and peach orchard.

5-Mulching:-

Mulching is practiced to conserve moisture. It prevents the loss of moisture by evaporation and improve water intake by the soils. Various organic (Straw, hay, manure, tree leaves, dry wads) material are used for mulching. Use of plastic mulch has been taken in rain fed and dry farming conditions to increase the productivity by minimizing evapo-transpiration losses.

6-Drip Irrigation:-

Drip irrigation saves water by 40 to 70 percent and two to three times more area can be irrigated with the same amount of available water. It has the advantages that it ensures uniform distribution of water, provides perfect control over water application and minimizing the losses during convergence and seepage. The demonstration can help and multiply the system specially in sandy area as Sardar and Jatt of the progressive farmer.

7- Dry Land Horticulture:-

In the selected area about 1558 ha. land is planned for horticulture and agro horticulture. Species like amla, guava, ber, bel, lemon will be planted at suitable site in the watershed.

Horticulture Department

Traditionally Ber, Amla, Karounda, Custard Apple, Jack fruit, Mango, Bael and citrus growing on the private and common lands are very common.

In the selected watershed area in district Ballia cabbage is the main crop of vegetable on commercial basis.

West U.P. region also has possibility of cultivating drought tolerant tomatoes like Arka Vikas (Selection-22) and rainfed onions provided there is proper marketing and processing facilities. Moringa Mango and ginger are other possibilities.

Special attribute medicinal species of drought ecologies

Name of Plant	Uses
Commiphora wightii	Lowers the cholesterol level, Carmative, as fixative in perfumery
Cassia angustifolia	Laxative, vermifute, Cathartic, Purgative
Withania samnifera	Rheumatism, Tuberculosis, Aphrodisiac
Aloe barbadensis	Rheumatism, Purgative, Liver disorder
Pedalium murex	Diuretic, impotency, Gonorrhoea and Dysuria, Demulcent, User
Boerhavia diffusa	Diuretic, Jaundice
Cyperus rotundus	Anti-Peptic
Tinospora cordifolia	Fever, Tonic
Tribulus terrestris	Diuretic, Tonic
Peganum harmala	Jaundice, Asthma, Rheumatism, Gallstones, Colic pains
Calotropic procera	Cold and cough, Asthma, Fever
Capparis deciduas	Dental problems, Asthma, Boils and Swellings
Andrographis paniculata	Hepato Protective

Demonstration of Agro-Horticulture & Drought Resistant Technology

District Ballia is situated in West U.P. region where there is scarcity of water in pockets only and in summer temperature rises up to 45 causing upper layer of fields dry and therefore mortality rate of plants is very high. Farmers usually like to grow grain and sugarcane crops only. The production of crops decreases below the tree. Some important economical irrigation system is illustrated as below.

Using Plastic Drum of 20 Liters

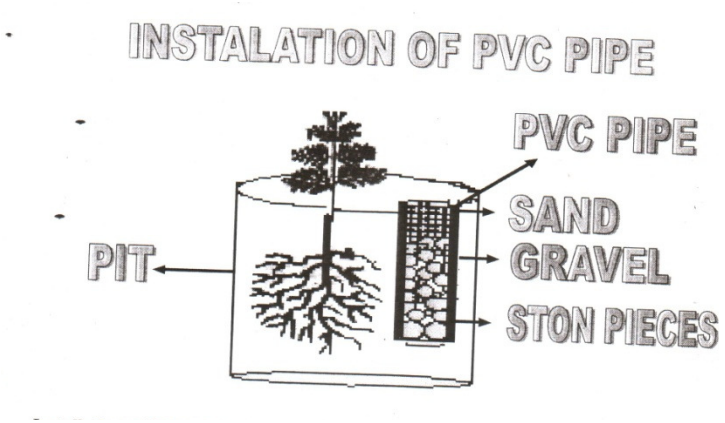
It is important to promote moisturisation in root zone of the plants. In this process plastic drums with full of water is used. Mainly crops roots go in to the soil up to 4"-5" in cereal crops and 6"-9" in pulses. Using plastic drums the plants will be planted 45-55 cm below the ground level which is below the root zone of crops. Therefore trees will not able to take nutrients from upper layer of fields and there will no effect of plants on crops.

In summer season up to 1 to 1.50m depth of soil becomes dry causes more mortality rate of plants, using drums plants are planted below 50-60 cm from ground level and in rainy and winter season up to February roots of plants goes below 2.10m below where moisture will be available and plants will be safe in summer also. Using barbed wire fencing the plants will be protected against grazing.

Therefore, it is hoped that farmers will adapt this procedure for Agro-forestry and will become prosperous.

INSTALATION OF PVC PIPE

PVC Pipe	10Cm in diameter and length 1.2 m
Filler in PVC pipe	Stone then gravel then sand
Filler in pit	Scraped top soil+FYM



Installation of PVC pipe

Famers were told to dig pits at the marked location with dimension 0.75 m x 0.75 m x 0.75 and fill with scraped soil + FYM amendment. The PVC pipes were inserted inside the pit at the adjoining of seedling/sapling before planting and the pipe was filled with stone/sand, then this pipe was removed. This hole provided sufficient moisture around root zone for proper growth and development of the plant. It also helped in reducing moisture losses from evaporation.

PITCHER IRRIGATION SALIENT FEATURES

A mud pitcher or desired capacity with a small hole at bottom just sufficient to accommodate a rope is taken. The rope with a knot at one end passes thought the hole so that water in very small quantities drips down and makes the soil wet. The roots of the plants draw water from the wet soil. To prevent evaporation the top of the pitcher is covered.

SPECIFICATIONS

1- A pitcher (Usually earthen) of required capacity is lowered down a pit made for the purpose at a small distance from the plant with covered top.

2- A rope (with a knot at one end inside the pitcher to keep the rope in position and control the dripping of water)of about 350mm length is used to give controlled supply of water to the soil near the plant. A small vertical hole should badge below the pitcher to accommodate the rope

Table No.3.7: Forest, Vegetative Cover/Grass Land

S. No.	Name & Code of Micro watershed	Forest (Area ha)			Grass Land (Area ha)		Other vegetative cover (Area ha)	
		Reserve	Gram Samaj (Natural/Planted)	Total	Gram Samaj	Private	Gram Samaj	Private
1	2	3	4	5	6	7	8	9
1	**Chhaprasarib 2B1A2b2a**	0	0	0	1.1	0	1.5	5
2	**Jharkataha 2B1A2b1b**	0	0	0	1.9	0	.8	9.2
3	**Husenabad 2B1A2b1d**	0	0	0	.9	0	1.9	3.2
4	**Mahadhanpur 2B1A2b2b**	0	0	0	1	0	2.1	1.5
5	**Udaha 2B1A2b1c**	0	0	0	1.5	0	.5	6.1
	Total of Project	**0**	**0**	**0**	**6.4**	**0**	**6.8**	**25**

Table No.3.8: Livelihood Status of Landless People

S.No.	Name & Code of micro watershed	Name of Livelihood Activity	No. of house hold engaged					Pre project Average Income/year	Desired Activities	Expected Income from desired activitiesRs /year	Remarks
			Sc	St	Other	Women	Total				
1	2	4	5	6	7	8	9	10	11	12	13
1	**Chhaprasarib 2B1A2b2a**	Labour	10	5	33	5	53	79500.00	Dairy/Poultry	132500.00	With investment work i.e.extra income in SHG
2	**Jharkataha 2B1A2b1b**	Labour	13	7	70	9	99	148500.00	Goatary/Poultry	247500.00	With investment work i.e.extra income in SHG
3	**Husenabad 2B1A2b1d**	Labour	11	9	28	4	52	78000.00	Dairy/Rope making	130000.00	With investment work i.e.extra income in SHG
4	**Mahadhanpur 2B1A2b2b**	Labour	9	11	16	13	49	73500.00	Dairy/Poultry	122500.00	With investment work i.e.extra income in SHG
5	**Udaha 2B1A2b1c**	Labour	21	9	51	13	94	141000.00	Dairy/Goatary	235000.00	With investment work i.e.extra

											income in SHG
	Total of Project		**64**	**41**	**198**	**44**	**347**				

Table No.3.9: Details of Livelihood Status other Farmers

S. No.	Name & Code of micro watershed	Name of Livelihood Activity	No. of Persons engaged					Pre project Average Income	Desired Activities	Expected Income from desired activities	Remarks
			Sc	St	Other	Women	Total				
1	**2**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**
	Chhaprasarib 2B1A2b2a	Agriculture ,A.H. , Labour	41	49	1099	53	1242	211140.00	Improvement agri. production. Improvment of animal husbandry	310500.00	-
	Jharkataha 2B1A2b1b	Agriculture , A.H.	59	49	1404	99	1611	273870.00		402750.00	-
	Husenabad 2B1A2b1d	Agriculture , Labour	23	19	701	25	768	130560.00		192000.00	-
	Mahadhanpur 2B1A2b2b	Agriculture , A.H.	21	19	501	84	625	106250.00		156250.00	-
	Udaha 2B1A2b1c	Agriculture , Labour	81	51	1101	45	1278	217260.00		319500.00	-
	Total of Project		**225**	**187**	**4806**	**306**	**5524**	**939080.00**		**1381000**	

Table No.3.10: Present Livelihood Status (No. of households/Income per year)

S. No	Name of MWS with code	Activities																			
		Dairy		Poultry		Goatry		Piggeries		Fisheries		Black Smithy		Carpentry		Stitching / knitting		Wages		Others (Specify)	
		No	Av. income	No	Av. income	No	Av. income	No	Av. income	No	Av. income	No	Av. income	No	Av. income	No	Av. income	No	Av. income	No	Av. income
1	2	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Chhaprasarib 2B1A2b2a	15	2500	14	15400	34	22500	-	-	-	-	-	-	-	-	-	-	60	72000	-	-
	Jharkataha 2B1A2b1b	25	11600	12	15400	21	25600	-	-	-	-	-	-	-	-	-	-	103	128450	-	-
	Husenabad 2B1A2b1d	6	1240	12	15400	22	26500	-	-	-	-	-	-	-	-	-	-	60	78000	-	-
	Mahadhanpur 2B1A2b2b	8	1350	16	15400	28	25600	-	-	-	-	-	-	-	-	-	-	65	83070	-	-
	Udaha 2B1A2b1c	13	1700	22	15400	45	25800	-	-	-	-	-	-	-	-	-	-	110	137500	-	-

Table No.3.11: Details of land holding pattern in the project areas

1	2	3	4	5	6	7		
S. No.	**Names MWS with code**	**Name of Village**	**Type of Farmer**	**No. of households**	**No. of BPL households**	**Land holding (ha)**		
						Irrigated	**Rainfed**	**Total**
1	Chhaprasarib 2B1A2b2a	Bhudirampur,Newapur,Choubeypur, Chhaprasarib, Rakhahar Noorpur, Umati, Bhisiya, Jamgharwa, Lamuhi, Kusouri Khurd, Somnathpur, Handia kalan,	Large farmer	149	-	206.6	426.1	597.7
			Small farmer	451	-	119	588	720
			Marginal farmer	642	97	122.5	357	471.5
			Landless person	53	33	-	-	-
			Sub-Total	**1295**	**130**	**448.1**	**1391.1**	**1839.2**
2	Jharkaataha (B1A2b1b)	Arjimafiatardariya, Atardariya, Kushar, Bhakhar, Kharika, Kachuha, Parsiaya, Mathnagnath, Jharkataha, Kalyanpur, Khirodhanpur, Sonbarsa, Marauti, Bhaisha Mohan chakni, Gayghat taluka reoti, Gayghat, Babhnaouli taluka reoti, Kunwa Piper, Reoti (N.P)	Large farmer	53	-	15.837	101.114	116.951
			Small farmer	307	-	95.100	380.500	475.6
			Marginal farmer	1251	151	297.5	700.200	997.7
			Landless person	99	71	-	-	-
			Sub-Total	**1710**	**222**	**408.437**	**1181.814**	**1590.251**
3	Husenabad 2B1A2b1d	Husenabad Bisouli, Chakmiran,	Large farmer	71	-	92.9	220.11	313.01
			Small farmer	299	-	50.50	350.150	400.65
			Marginal farmer	398	59	40.30	200.70	241
			Landless person	52	40	-	-	-
			Sub-Total	**820**	**99**	**183.7**	**770.96**	**954.66**
4	Mahadhanpur 2B1A2b2b	Mahadhanpur, Handia khurd, Tahirpur, Mahendrapur, Babhnouli taluka handia, Kusouri kalan, Singhi	Large farmer	67	-	96.5	102	198.5
			Small farmer	207	-	70.5	250.3	320.8
			Marginal farmer	351	51	45.5	200	245.5
			Landless person	49	44	-	-	-
			Sub-Total	**674**	**95**	**212.5**	**552.3**	**764.8**
5	Udaha 2B1A2b1c	Udaha, Binha, Pakaha, Rajouli taluka sahatwar Bharouli, Bhopatpur, Jagdishpur taluka reoti Jagdishpur taluka handia, Naina, Galaferpur Balbir Naina, Trikalpur, Kumhaila, Bhagwanpur Mangeet chhap, Dubey chhap, Chhapia Kunwar chhap,	Large farmer	53	-	6.617	142	148.617
			Small farmer	418	-	212.07	400.5	612.57
			Marginal farmer	811	59	132.19	531.50	663.69
			Landless person	94	69	-	-	-
			Sub-Total	**1372**	**128**	**350.877**	**1074**	**1424.877**

DESIGN OF CONTOUR BUND

Type of Soil		- Clay
Rain fall		- 24 hr in cm -25 cm
Fied Stop -1%		
Virtical interval (Vi)		= [s/3+2]
		= [1/3+2]
Horizontal interval (HI)	= 0.70 m	
		= 100xV.I/s
Heidht of Bond h		= (Rex vi)/50
		= (25x0.7) /50
		0.35
		0.59
		Say 0.6 m
Ferr bord		= 15% of high mimimum -10 cm
Hight		= 0.60+0.10
		= 0.70m
Taking top widh of bond 0.50 m and side slope 1.5:l		
Then base of bond		=0.50+(1.10d)x 2
		= 2.60 m
Coress-Seclion of bond	=(2.50+ 2.60) x0.70/2	
		=1.085m^2
Length of bond	= 100s/V.I.	
		=100x1/0.70
		= 142.85 m/ha
		Say 120 m/ha
Earth work /ha	= 250x1.085	
		= 162.75 cum
		= 162 .75 cum
Cort Rs./ ha		=162.7 x39.16=6373.29
		Say 6375.00

DESIGN OF SUMBERGENCE BOND

Types siol – Caly	Rainfall intensiy for 24 hrs – 25 cm
Fild slope 3%	V.I. =[s/3+2] x0.30
	= 0.909 m
Horizontal Interval =(100xV.I.)/s	= (100x0).3
	= 30m
Height of bond h = (Re x V.I.)/50	=(25 x 0.90)/0 =0.45 =0.67m. Say 0.70m
Feree bord 20% of hight minimum 20 cm	=
Total Hight	= 0.90 m
Takingh top wigth of bond 0.70 m and side slope 1.5:1	
Bottom of bund	= 0.70+2x 1.5d
	= 0.70+2.70
	= 3.40
Cross section of Submergence Bond	= (0.70+3.40)x09.90/2
	= 1.845 m^2
Lengh of bond	= 100s/V.I.
	= (100x3) /0.90
	= 333 m
Feasible length	= 100+25+25
	= 150m
Earth work/ha	= 150x1.845
	= 276.75
	= 276.75x39.16
Cost per has	= 10,837.53

Say 10,850=00

TYPICAL SECAION OF FILED BUND

Top widht	= 0.50m
Side slope	=1:1
Height of bound	= 0.50m
Bottom Widht	= 1.50m
Cross section	= (0.580+1.50)x0.50/2=100cum
Length per hectare	= 200 m
Earhwork	= 200x0.50=100cum
Cost 39.16/cum	= Rs.3916.00
Cost per hectare	=Rs. 3916.00

TYPICAL SECTION OF P.B., M.B., S.B0.

Top width	= 0.70m
Side slope	= 1.5: 1
Height	= 1.30 m
Bottom	=4.60 m
Cross section	= (0.70+4.60)x1.30/2=3.445m^2
Cost/meter	= Rs. 142.00

TYPICAL SECTION OF EARTHEN CHECK DAM / GULLY PLUG

Top width	=1.50 m
Side slope	= 2:1
Height	= 2.10m
Bottom Width	=9.90 m
Cross section	= (1.50 + 9.90) x2.10 / 2
	=11.97 m^2
Cost per meter	= Rs. 551.45

TYPICAL SECION OF CHEK DAM / GULLY PLUG

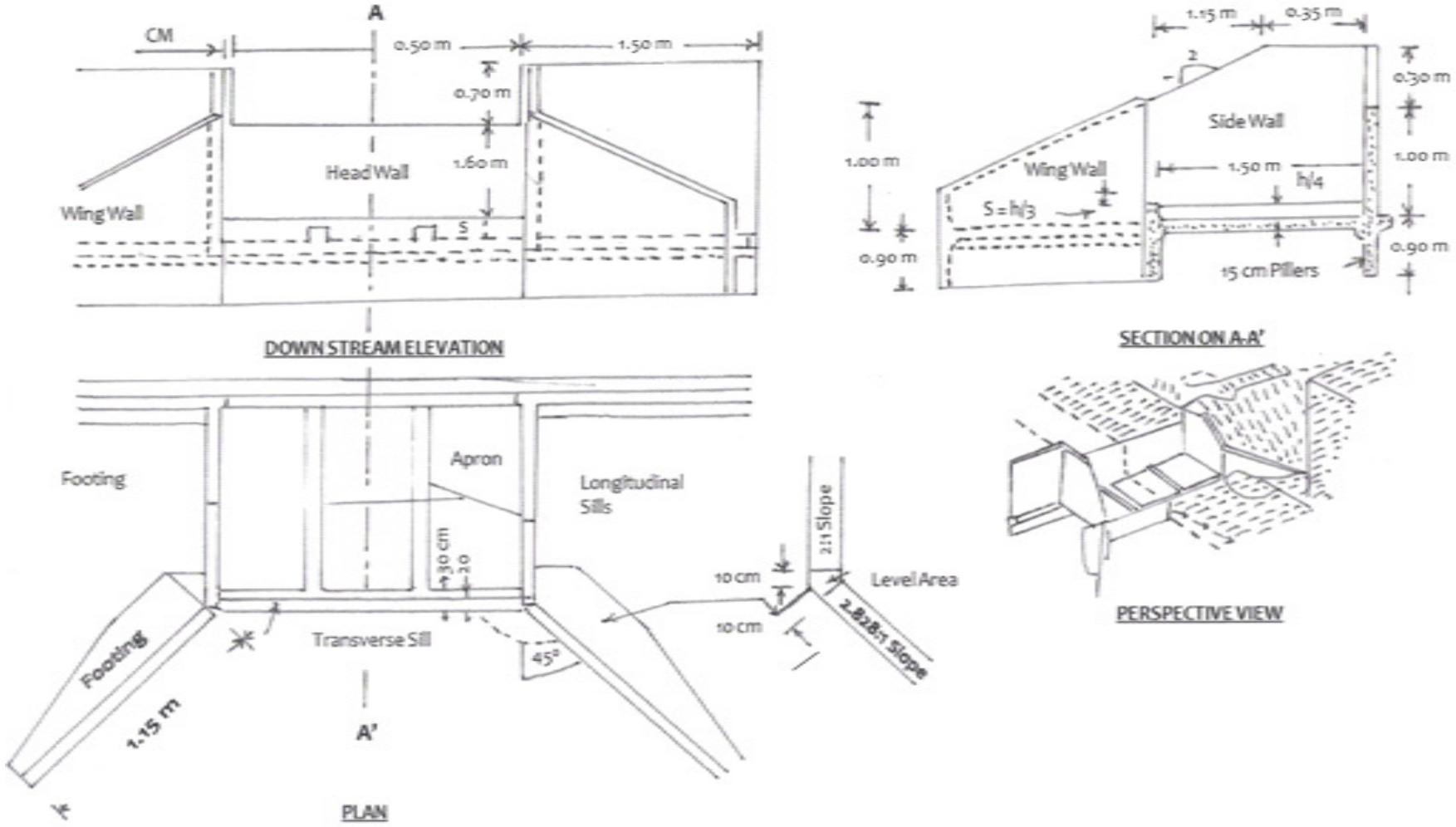
Top Width	= 2.00m
Side slope	=2:1
Height	= 2.50 m
Bottom Width	= 12.00 m
Cross Section	= (2.00 + 12.00) x 2.50 / 2
	= 17.50 m^2
Cost/meter	= Rs. 839.12

TYPICAL SECTIO0N OF W.H.B

Top width	= 2.50 m
Side slope	= 2:1
Height	= 2.75 m
Bottom Width	= 13.50 m
Cross section	= (2.50 + 13.50) x 2.75/2
	= 22.00 m^2
Per meter cost	= Rs. 1085.92

DRAWING OF SPILLWAY OF CREST LENGTH 0.5 m

Not to Scale



Design of Drop Spillway to be constructed at a place in a gully having width of 1.0 m and catchment area 1.00 and net drop 0.50 m Taking rainfall intensity for duration equal to time of concentration of watershed and design return period of 25 years , as 120 mm/hr . The coefficient of runoff for the watershed is 0.3.

1.Hydrologic design – The design peak runoff rate(m^3/s) for the watershed form Rational formula is given as :

$$Q = \frac{C.I.A.}{360} = \frac{0.3 \times 120 \times 1.00}{360} = 36/360 = 0.10 \text{ cum /second}$$

2. Hydraulic design- The maximum discharge capacity of the rectangular weir given by

$$Q = \frac{1.711 L H^{3/2}}{(1.1+0.01f)} = o \text{ find suitable value of L\&H}$$

Let us assume L=0.50 m(since width of gully is 1.00m)

$$0.10 = \frac{1.711 L H^{3/2}}{(1.1+0..01 \times 0.5)} = \frac{1.711 L H^{3/2}}{(1.105)}$$

$$L H^{3/2} = \frac{1.105 \times .10}{1.711} = \frac{0.1105}{1.711} = 0.064$$

$$H^{3/2} = \frac{0.064}{0.50} = 0.128$$

$$H = (0.128)^{3/2} = 0.25m$$

Test $L / h = 0.50 = 2. \geq 2.0$ hence O.K.; 0.25 $h / f = \frac{0.25}{0.50} = 0.50 \leq 0.5$ hence O.K.

3. Structural design -

1. Minimum headwall extension , E =(3h +0.6) or 1.5 f whichever is greater E= 3x0.5+0.6 or 1.5x0.50
   E = 2.10m or 0.75+m = Adopted 2.10m
2. Length of apron basin L_B = (2.28 h/f + 0.54) =0.50 (2.20 x 0.5 + 0.54)-0.5
   =0.50x2.74 =1.37 m says 1.40m
3. Height of end sill, S =h=0.50= 0.16m says 0.20m

4. Height of wing wall and side wall at Junction:
   J = 2h or [f + h + S – (L_B + 0.10)/2] whichever is greater = 2 x 0.20 or [0.50 + 0.50+0.16 – (1.37+0.10/2)]
   = 1.0 or [1.16 -0.735] = 1.0 or 0.425 (adopt J = 1.00 m)
5. M = 2(f + 1.33 h –J) = 2 (0.050 + 1.16 – 0.733x 0.25 – 1.00) = 2x (-0.167) = -0.335

6. K = (L_B + 0.1) – M = (1.037 + 0.1) – 0.335 =1.47 – 0.335 =1.135 m

Toe and cut off walls

Normal scour depth (N S D) =0.473 x $(Q / f)^{1/3}$ = 0.473 x $(0.1/1)^{1/3}$ = 0.473 x0.464 = 0.219
Maximum Scour depth (M S D) = 1.5 x N S D = 1.5 x 0.219 = 0.328m Says 0.35 m
Depth of cutoff / Toe wall = 0.35 m

Apron thickness : For an over fall of 0.5 m .The apron thickness in concrete construction is 0.20m since structure is constructed in masonry ,the Apron thickness will be 0.20x1.50=0.30m

CHAPTER- 4

INSTITUTIONAL BUILDING AND PROJECT MANAGEMENT

4.1: Details of Project Implementing Agency (PIA)

S. No.	Particulars of PIA	
1	2	3
(i)	Date of selection of PIA	25.05.2010
(ii)	Type of organization#	Govt. organization
(iii)	Name of organization	DOLR
(iv)	Designation & Address	B.S.A., I.W.D.P., Ballia
(v)	Telephone	05498-222125
(vi)	Fax	05498-223530
(vii)	E-mail	bsaldwrbl-up@nic.in

4.2: Details of Staff at PIA

S. No.	Designation	Name	M/F	Qualification	Field of Experience & Period
1	B.S.A.	Sri Nathuni Prasad singh yadav	M	Intermediate, Diploma	32 years
2	Junior Engineer	Sri Avdhesh Mani Tripathi	M	Intermediate, Diploma	32 years
3	A.S.C.I.	Sri Mangal Singh	M	B.Sc. Ag	03 years
4	Seench Parvakshak	Sri Girish Chandra Dwividi	M	Intermediate	26 years
5	Seench Parvakshak	Sri Kanhayia Lal Maurya	M	Intermediate	28 years
6	Seench Parvakshak	Sri Jaisi Ram	M	Intermediate	32 years
7	Seench Pal	Sri Rajesh Kumar Pandey	M	M.A.	26 years
8	Seench Pal	Sri Ram Naresh Tripathi	M	High School	32 years
9	Seench Pal	Sri Anjar Hussain Siddiki	M	High School	27 years
10	Seench Pal	Sri Ramashanker Prajapati	M	High School	32 years
11	Accountant	Sri Liyakt Ali	M	B.Com.	32 years

12	Anurekhak	Sri Ram Chandra Singh	M	Intermediate	32 years
13	Junior Clerk	Sri Shiv Sharn Lal Srivastava	M	B.A.	32 years
14	Junior Clerk	Sri Nihori Ram	M	M.A.	32 years
15	Munsi	Sri Sunil Kumar	M	M.A.	02 years
16	Munsi	Sri Amit Kumar Gupta	M	B.A.	02 years
17	Peon	Sri Ram Karan Yadav	M	B.A.	32 years
18	Peon	Sri Sadri Ram	M	5^{th}	33 years
19	Peon	Sri Ram Babu	M	Literate	33 years
20	Peon	Smt. Parvati	F	Literate	03 years

4.3: Details of Watershed Development Team (WDT) in the project area

1	2	3	4	5	6	7	8
S. N.	**Name of WDT member**	**M/F#**	**Age**	**Qualification / Experience**	**Role/ Function**	**Description of professional Training**	**Date of appointment of WDT member**
1	Sri Pradeep Kumar	M	22	B.Tech (A.G.)	Water Management Expert	Water Management	10.09.2011
2	Sri Nitesh Kumar Sharma	M	20	Diploma in civil	Soil Expert	Soil Expert	10.09.2011
3	Sri Brijesh kumar singh	M	26	BSc Ag.	Agronomy	Agri. Production System Expert	08.09.2011
4	Smt Reena singh	F	28	B.A.	Social Work	Training of Social Mobilaizer	17.09.2011

Table No.4.1: Details of Watershed Committee (WC)

S. No.	Name of micro watershed	Date of Constitution/ Registration as a Society (dd/mm/ yyyy)	Designation	M/F	SC	ST	SF	MF	LF	Landless	UG	SHG	GP	Educational qualification	Function(s) assigned#
1	Chhaprasarib	14/7/2010	President	**M**	-	-	-	-	√	-	√	-	-	8th	Implementation of watershed program under the supervision of PIA (as per common guide line)
			Secretary	M	-	-	√	-	-	-	-	-	-	5th	
			Member	M	-	-	-	-	-	√	-	-	-	9th	
			Member	M	-	-	√	-	-	-	√	-	-	4th	
			Member	M	-	-	-	√	-	-	√	-	-	2nd	
			Member	F	√	-	-	-	-	√	-	-	-	-	
			Member	M	-	-	-	√	-	-	√	-	-	5th	
			Member	F	-	-	-	-	-	√	-	√	-	-	
			Member	M	√	-	-	-	-	√	-	√	-	-	
			Member	M	-	-	√	-	-	-	√	-	-	6th	
			Member	M	√	-	-	√	-	-	-	-	-	7th	
			Member	F	-	-	-	-	-	-	-	√	√	10th	
2	Jharkataha	17/7/2010	President	**M**	-	-	-	-	√	-	√	-	-	10th	Implementation of watershed program under the supervision of PIA (as per common guide line)
			Secretary	M	-	-	-	-	√	-	-	-	-	12th	
			Member	M	-	-	-	-	-	√	-	-	-	10th	
			Member	M	-	-	√	-	-	-	√	-	-	12th	
			Member	M	-	-	-	√	-	-	√	-	-	-	
			Member	F	√	-	-	-	-	√	-	-	-	10th	
			Member	M	-	-	-	√	-	-	√	-	-	-	
			Member	F	-	-	-	-	-	√	-	√	-	8th	
			Member	M	√	-	-	-	-	√	-	√	-	10th	
			Member	M	-	-	√	-	-	-	√	-	-	-	
			Member	M	√	-	-	√	-	-	-	-	-	10th	
			Member	F	-	-	-	-	-	-	-	√	√	9th	
3	Husenabad	10/7/2010	President	**M**	-	-	-	-	√	-	√	-	-	12th	

			Secretary	M	-	-	√	-	-	-	-	-	-	12th	Implementation of watershed program under the supervision of PIA (as per common guide line)
			Member	M	-	-	-	-	-	√	-	-	-	-	
			Member	M	-	-	√	-	-	-	√	-	-	10th	
			Member	M	-	-	-	√	-	-	√	-	-	5th	
			Member	F	√	-	-	-	-	√	-	-	-	12th	
			Member	M	-	-	-	√	-	-	√	-	-	-	
			Member	F	-	-	-	-	-	√	-	√	-	10th	
			Member	M	√	-	-	-	-	√	-	√	-	9th	
			Member	M	-	-	√	-	-	-	√	-	-	-	
			Member	M	√	-	-	√	-	-	-	-	-	10th	
			Member	F	-	-	-	-	-	-	-	√	√	5th	
4	Mahadhanpur	05/7/2010	President	**M**	-	-	-	-	√	-	√	-	-	12th	Implementation of watershed program under the supervision of PIA (as per common guide line)
			Secretary	M	-	-	-	-	√	-	-	-	-	12th	
			Member	M	-	-	-	-	-	√	-	-	-	10th	
			Member	M	-	-	√	-	-	-	√	-	-	10th	
			Member	M	-	-	-	√	-	-	√	-	-	5th	
			Member	F	√	-	-	-	-	√	-	-	-	9th	
			Member	M	-	-	-	√	-	-	√	-	-	8th	
			Member	F	-	-	-	-	-	√	-	√	-	-	
			Member	M	√	-	-	-	-	√	-	√	-	10th	
			Member	M	-	-	√	-	-	-	√	-	-	5th	
			Member	M	√	-	-	√	-	-	-	-	-	-	
			Member	F	-	-	-	-	-	-	-	√	√	9th	
5	Udaha	19/7/2010	President	**M**	-	-	-	-	√	-	√	-	-	12th	Implementation of watershed program under the supervision of PIA (as per common guide line)
			Secretary	M	-	-	√	-	-	-	-	-	-	10th	
			Member	M	-	-	-	-	-	√	-	-	-	5th	
			Member	M	-	-	√	-	-	-	√	-	-	7th	
			Member	M	-	-	-	√	-	-	√	-	-	8th	
			Member	F	√	-	-	-	-	√	-	-	-	-	
			Member	M	-	-	-	√	-	-	√	-	-	10th	

			Member	F	-	-	-	-	-	√	-	√	-	5th
			Member	M	√	-	-	-	-	√	-	√	-	9th
			Member	M	-	-	√	-	-	-	√	-	-	-
			Member	M	√	-	-	√	-	-	-	-	-	8th
			Member	F	-	-	-	-	-	-	-	√	√	7th

Table No.4.2: Details of Formation of Self Help Groups

S. N.	Name of micro watershed	Name of village	Name of group	Date of Formation	Name of Adhyaksh	Name of Sachiv	Total No. of Members				Name of Bank and Address	Account No. & Date	Up to date Saving Rs.	Group activities
							Wo-men	Sc/ St	Oth er	Total				
1	2	3	4		5	6	7	8	9	10	11	12		13
2	Chhapra sariv	Budhira mpur	Jai Bajran gbali S.H.G.	10-2-2010	Dulari Devi	Ramawat i	5	1	1	7		Under process		Cow rearing
3			Divyas hakti S.H.G.	21-2-2010	Motihari Devi	Shanti Devi	4	1	3	8		Under process		Buffallow rearing
4			Eklavy a S.H.G.	24-2-2010	Chandrawa ti	Neha Devi	4	0	2	6		Under process		Goatry rearing
5			Shri Adarsh S.H.G.	25-2-2010	Satyaprakash	Siyaram yadav	3	1	3	7		Under process		Poultry
6			Shri Ramde v S.H.G.	27-2-2010	Sukar rajbhar	Ganga ram	4		5	9		Under process		Fisheries rearing
7		Choubey pur	Shri Hari S.H.G.	1-3-2010	Sumitra	Sanjay Tiwari	3	1	3	7		Under process		Dairy rearing
8			Gram laxmi S.H.G.	11-3-2010	Madan	Saroj Devi	3	0	3	6		Under process		Cow rearing
9			Ekta S.H.G..	5-3-2010	Akshya kumar	Geeta Devi	7	0	3	10		Under process		Buffallow rearing
10			Shradd ha S.H.G.	2-3-2010	Md.Shouka t	Subha Devi	5	0	2	7		Under process		Goatry rearing

11			Prayas Bachat S.H.G.	9-3-2010	Meena Devi	Kusum Devi	4	1	1	6		Under process		Fisheries rearing
12			Kuldevi S.H.G	4-3-2010	Dwarika	Kamla	2	1	5	8		Under process		Dairy rearing
13			Navhirman S.H.G	12-3-2010	Munrika	Urmila	5	1	3	9		Under process		Dona Pattal Making
14			Adarsh Bachat S.H.G	7-3-2010	Shriram Giri	Chandra wati	5	2	0	7		Under process		Basket Making
15		Chaprasariv	Pariwartan S.H.G.	15-3-2010	Smt.Tijiya Devi	Aarti	0	1	6	7		Under process		Carpentry
16			Jai Chamunda S.H.G.	21-3-2010	Sri Magesar	Kalawati	4	3	0	7		Under process		Black smithy
17			Vahanvati S.H.G.	9-3-2010	Sri Jitin	Shanti	5	4	0	9		Under process		Jam preparation
18			Jai DadaS.H.G.	16-3-2010	Sri Kasim	Parwati	5	1	1	7		Under process		Jelly preparation
19		Lamuhi	Navjivan S.H.G.	10-3-2010	Sri Jayi	Geeta	0	2	5	7		Under process		Engine repair
20			YashasviS.H.G.	22-3-2010	Smt. Anita Devi	Rita	0	2	6	8		Under process		Motorcycle repair
21			Jai ambe S.H.G.	11-3-2010	Samajeet	Radha	5	0	2	7		Under process		Bag making
22			RamapirS.H.G.	15-3-2010	Smt. Ramawati Devi	Chandra wati Devi	6	0	1	7		Under process		Cow rearing

23			Jai gurudev S.H.G.	23-3-2010	Kamlesh Singh	Janakdulari Devi	6	0	1	7		Under process		Buffallow rearing
24		umati	Vishwakarma Bachat S.H.G.	17-3-2010	Smt. Suman	Shanti Devi	5	0	3	8		Under process		Goatry rearing
25			Yuva vikash S.H.G.	24-3-2010	radheshyam	Lalita Devi	5	0	2	7		Under process		Dairy work
26			Balaji S.H.G.	19-3-2010	Smt.Ssivkumari	Kaushlya Devi	6	0	1	7		Under process		General Marchant
27		Bhisiya	Kedar baba S.H.G.	27-3-2010	Smt.Sita Devi	Parwati	4	0	4	8		Under process		Hen Keeping
28			Triveni ji S.H.G.	19-3-2010	Ramdainik	Gayatri	5	0	4	9		Under process		Dairy work
29			Sangam S.H.G.	28-2010	Vinod kumar tiwari	Asha Devi	5	0	5	10		Under process		Dairy work
30			Maa Sita S.H.G.	20-3-23010	Smt.Tetri	Jamuna	0	5	2	7		Under process		General Marchant
31	Jharkataha	Kushar	Bholenath S.H.G.	29-3-2010	Rakesh kumar verma	Sushila Devi	4	2	1	7		Under process		Hen Keeping
32			Satimaayi	26-3-2010	Arjun gond	Chandrawati	5	2	2	7		Under process		Dairy work
33			Rajendra prasad S.H.G.	30-2010	Sugiya Devi	Chanda Devi	4	2	2	8		Under process		Fish keeping
34			Jangali Baba S.H.G.	27-3-2010	Krishna singh	apruti	5	1	4	10		Under process		Poultry

35			Sewashram S.H.G.	2-4-2010	Sukhdevram	Dhanmuni	4	3	0	7		Under process		General Marchant
36			Prayas Bachat S.H.G	7-4-2010	Arjun verma	Keshvi Devi	4	2	2	8		Under process		Hen Keeping
37			Shraddha S.H.G	1-4-2010	Patiram verma	Chandra wati	5	2	0	7		Under process		Dairy work
38			Vikash S.H.G.	11-4-2010	Munni Devi	Vinay kumar	0	3	5	8		Under process		Tent house
39		Bhakhar	Harsiddhi S.H.G.	15-4-2010	Asha Devi	Brijesh kumar	4	3	2	9		Under process		Tailoring
40			Jai mahakali S.H.G.	3-4-2010	Ramkishun Yadav	Lallan	6	1	0	7		Under process		Hen keeping
41			Saraswati S.H.G.	16-4-2010	Lallan prasad	Srikrishna	4	4	0	8		Under process		Rope making
42			Radhakrishna S.H.G.	3-4-2010	Vyash ji verma	Sunaina	0	5	4	9		Under process		Mini daal mill
43			Srikrishna S.H.G	19-4-2010	Basawan prasad	Bhola	0	4	3	7		Under process		Mini floor mill
44			Sri sarswati S.H.G.	6-4-2010	Kailash Tgakur	Shivshankar	0	2	6	8		Under process		Black smith
45			Gram Laxmi S.H.G	17-4-2010	Omprakash	Chandra wati	4	3	2	9		Under process		Fruit processing
46		Sonbarsra	Shri Adarsh S.H.G.	5-4-2010	Shakuntala Devi	Sunita	2	3	2	7		Under process		Vermi compost

47			Shakti S.H.G.	7-4-2010	Surendra Thakur	Paras	5	3	0	8		Under process		Silai
48			Eklavaya S.H.G.	22-4-2010	Shubhnarayan Thakur	Gulab	5	3	2	10		Under process		General Marchant
49			Srijanshakti S.H G.	11-4-2010	Keshav Thakur	Hari Ram	5	4	0	9		Under process		Hen Keeping
50			Divyashakti S.H.G.	23-4-2010	Sri Bhagwan	Srichandra	6	1	0	7		Under process		Dairy work
51			Sri Laxmi S.H.G.	13-4-2010	Mahalu	Kailash	4	4	0	8		Under process		Tent house
52			Jivan jyoti S.H.G.	9-4-2010	Gangadhari	Parwati	5	2	0	7		Under process		Tailoring
53			Nari shakti S.H.55 G.	21-4-2010	Gopal Thakur	Pooja	4	2	2	8		Under process		Hen keeping
54		Marauti	Sri Shiv S.H.G.	10-4-2010	Manoj	Kamlawati	5	1	1	7		Under process		Rope making
55			Pragati S.H.G.	24-4-2010	Sandha	Saroj Devi	5	4	0	9		Under process		Mini daal mill
56			Lalbhagat S.H.G.	17-4-2010	Shanti	Champa Devi	5	2	0	7		Under process		Mini floor mill
57			Pooja S.H.G.	25-4-2010	Panva Devi	Roshni kumari	5	5	0	10		Under process		Black smith
58			Sri shakti S.H.G.	19-4-2010	Pachratani	Sarala Devi	4	4	0	8		Under process		Fruit processing
59			Pragati S.H.G.	2-5-2010	Buchiya Devi	Vishakha Devi	4	2	1	7		Under process		Vermi compost

60			Jai Bharat S.H.G.	7-5-2010	Jasodiya	Poonam Devi	0	3	5	8		Under process		Silai
61			Navyug S.H.G.	12-5-2010	Vidyawati	Sita Devi	4	3	2	9		Under process		General Marchant
62			Bimnath S.H.G.	8-5-2010	Kamlawati	Ramawati	3	1	3	7		Under process		Hen Keeping
63		Bhaisha	Kiran S.H.G.	15-5-2010	Hewanti Devi	Shushila Devi	4	3	0	7		Under process		Dairy work
64			Vinayak S.H.G.	5-5-2010	Jaya Devi	Shanoo Devi	0	1	6	7		Under process		Tent house
65			Sri Narshi S.H.G.	22-5-2010	Prabhawti	Sharmili	4	4	0	8		Under process		Tailoring
66			Sri Jai SisuMaa S.H.G.	4-6-2010	Shiv ji	Manju Devi	4	4	1	9		Under process		Hen keeping
67			Jai Ambe S.H.G	19-6-2010	Vinod kumar	Uma Devi	5	2	0	7		Under process		Rope making
68			Savgun S.H.G.	27-6-2010	Sita Ram	Uma Devi	4	3	0	7		Under process		Mini daal mill
69			Bimnath S.H.G	5-7-2010	Ganesg	Saroj Devi	5	2	0	7		Under process		Mini floor mill
70			Kiran S.H.G	19-7-2010	Mamta pandey	Kalpana pandey	4	2	1	7		Under process		Black smith
71	Husenabad	Husenabad	Nutan S.H.G.	22-7-2010	Vandana Singh	Neelam Dubey	3	2	1	6		Under process		Fruit processing
72			Jai Shri S.H.G.	29-7-2010	Suman pandey	Poonam pandey	5	3	0	8		Under process		Vermi compost
73			Suryavandana	6-8-2010	Shobha dubey	Reena dubey	4	4	0	8		Under process		Silai

			S.H.G.											
74			Sri Narshi S.H.G	16-8-2010	Munni dubey	Meena dubey	5	4	0	9		Under process		General Marchant
75			Harsid dhi S.H.G	26-8-2010	Jayant ram	Rambhar ose	6	1	0	7		Under process		Hen Keeping
76			Jai Bhim S.H.G.	3-9-2010	Surendra kummar	Suchita devi	5	4	0	9		Under process		Dairy work
77			Adarsh S.H.G.	17-9-2010	Santosh kumar	Sonal	4	3	1	8		Under process		Tent house
78			Chamu nda S.H.G.	29-9-2010	Lakhandev	Ramwati	3	2	2	7		Under process		Tailoring
79			Sama S.H.G.	4-10-20140	Vijay kumar	Geeta devi	6	1	0	7		Under process		Hen keeping
80			Shri shrami k S.H.G	19-10-2010	Ramesh kumar	Sambha wna devi	5	2	1	8		Under process		Rope making
82			Unnat S.H.G	26-10-2010	Sachin kumar	Aarti	4	1	2	7		Under process		Mini daal mill
83			Shri Dhanla xml S.H.G	9-11-2010	Kedarnath	Shobha devi	5	2	1	8		Under process		Mini floor mill
84		Bisouli	Ekta S.H.G.	13-11-2010	Shobha devi	Nitin kumar	5	2	0	7		Under process		Black smith
85			Shri Varsha S.H.G	22-11-2010	Kaushlya devi	Mithun kumar	5	2	0	7		Under process		Fruit processing
86			Vahan vati S.H.G.	27-11-2010	Rekha devi	Shailesh kumar	0	2	5	7		Under process		Vermi compost
87			Navod aya S.H.G.	4-12-2010	Ram dulari	Balram	5	0	2	7		Under process		Silai

88			Navyug S.H.G.	17-12-2010	Shushila devi	Ramcharan	4	0	3	7		Under process		General Marchant
89			Navchetana S.H.G.	22-12-2010	Shyam babu	Shushila devi	4	0	4	8		Under process		Hen Keeping
90			Ambedkar S.H.G.	29-12-2010	Shanno devi	Devendra kumar	5	0	2	7		Under process		Dairy work
91			Chamunanda S.H.G.	3-1-2011	sita devi	Rama devi	5	0	3	8		Under process		Tent house
92			Utkarsh S.H.G	9-2-2011	Shyam babu	Leela devi	6	0	3	9		Under process		Tailoring
93			Jai Ambe S.H.G.	12-1-2011	Jagannath	Bala devi	8	0	2	10		Under process		Hen keeping
94			Gayatri S.H.G.	17-1-2011	Sanju devi	Devendra kumar	4	0	3	7		Under process		Rope making
95		Chakmiran	Sri Vimal S.H.G.	22-1-2011	Sita devi	Ram krishan	4	2	1	7		Under process		Mini daal mill
96			Ekta Bachat S.H.G.	27-1-2011	Kaoshlya devi	Ramvati devi	5	2	0	7		Under process		Mini floor mill
97			Shraddha S.H.G.	2-2-2011	Prabhavati devi	Sangeeta	5	3	0	8		Under process		Black smith
98			Gramin Vikash S.H.G.	4-2-2011	Kamlesh	Suneeta	4	5	0	9		Under process		Fruit processing
99			Sri Bala ji S.H.G.	9-2-2011	Shiv raj	Parvati Devi	6	1	0	7		Under process		Vermi compost
100			Sri Slkotar	15-2-2011	Ganga ram	Raj kumari	0	1	6	7		Under process		Silai

			S.H.G.											
101	Mahadhan Pur	Mahadhanpur	Chamunanda S.H.G.	5-2-2011	Suneeta devi	Ramlata	6	1	0	7		Under process		General Marchant
102			Shiv Shakti S.H.G.	27-2-2011	Ganga devi	Meena devi	6	1	1	8		Under process		Hen Keeping
103			Nilkanth S.H.G.	4-3-2011	Sarita devi	Pankaj	5	2	0	7		Under process		Dairy work
104			Jay Narsang S.H.G.	17-3-2011	Aarti devi	Nirmala devi	0	2	5	7		Under process		Tent house
105			Navnirman S.H.G.	25-3-2011	Raj kumari	Saroj kumari	5	2	0	7		Under process		Tailoring
106			Baba Ramdev S.H.G.	28-3-2011	Mohan lal	Chhote lal	4	4	0	8		Under process		Hen keeping
107			Paras Bachat S.H.G.	1-4-2011	Chinta devi	Urmila devi	0	1	6	7		Under process		Rope making
108		Handia kalan	Sri Shakti S.H.G.	4-4-2011	Roopmani devi	Renu devi	5	2	0	7		Under process		Mini daal mill
109			Sri Gayatri S.H.G.	9-4-2011	Shikha devi	Rhambha roshe	6	1	0	7		Under process		Mini floor mill
110			Sri Ganesh S.H.G.	16-4-2011	Vidhya Devi	Jyanti lal	6	1	1	8		Under process		Black smith
111			Ambedkar S.H.G	22-4-2011	Shukhi lal	Sunita Devi	6	2	1	9		Under process		Fruit processing
112			Vahanvati	29-4-2011	Raju	Vimla Devi	5	2	0	7		Under process		Vermi compost

			S.H.G											
113		Tahirpur	Ekta S.H.G	2-5-2011	Aarti Devi	Shodhnath	5	0	2	7		Under process		Silai
114			Jai Bajrangbali S.H.G.	9-5-2011	Aasha devi	Vipul Kumar	4	0	4	8		Under process		General Marchant
115			Divyashakti S.H.G.	19-5-2011	Kamlavati	Shashi kumar	4	0	3	7		Under process		Hen Keeping
116			Eklavya S.H.G.	24-5-2011	Shambhunath	Madhu Devi	4	0	4	8		Under process		Dairy work
117			Shri Adarsh S.H.G	29-5-2011	Shiv nath	Lalaram	5	0	2	7		Under process		Tent house
118		Singhi	Shri Hari S.H.G.	1-6-2011	Shipra	Ram lal	5	2	1	8		Under process		Tailoring
119			Sewashram S.H.G.	7-6-2011	Jyantilal	Sudha Devi	5	5		10		Under process		Hen keeping
120			Prayas S.H.G	12-6-2011	Meenu	Jitendra Kumar	4	2	1	7		Under process		Rope making
121			Shraddha S.H.G.	6-6-2011	Neela Devi	Veeru	5	2	0	7		Under process		Mini daal mill
122			Vikash S.H.G	17-6-2011	Pratibha Devi	Ramwati	4	3	0	7		Under process		Mini floor mill
123			Harsidhi S.H.G	22-6-2011	Vaijanti lal	Yatendra	4	4	0	8		Under process		Black smith
124			Jai mahakali S.H.G.	29-6-2011	Vikash	Sobha	4	3	0	7		Under process		Fruit processing
125			Saraswati	3-7-2011	Nirmal Kumar	Rashmi	6	1		7		Under process		Vermi compost

			S.H.G.											
126		Mahaendapur	Radhakrishna S.H.G.	11-7-2011	Anjali	Pradeep	4	2	2	8		Under process		Silai
127			Srikrishna S.H.G	19-7-2011	Rambabu	Urmila devi	5	4	0	9		Under process		General Marchant
128			Sri sarswati S.H.G.	27-7-2011	Sanja	Nitesh kumar	3	0	4	7		Under process		Hen Keeping
129			Gram Laxmi S.H.G	1-8-2011	Brijesh kumar	Reena devi	4	0	3	7		Under process		Dairy work
130			Shri Adarsh S.H.G.	9-8-2011	Ravikishan	Jyoti devi	5	0	4	9		Under process		Tent house
131	Udaha	udaha	Shakti S.H.G.	12-8-2011	Jamuna devi	Shantosh Kumar	5	0	2	7		Under process		Tailoring
132			janshakti S.H G	15-8-2011	Sharaswati Devi	Shambu nath	6	0	1	7		Under process		Hen keeping
133			Sri Laxmi S.H G	17-8-2011	Vidhi Devi	Rani Devi	7	0	0	7		Under process		Rope making
134			Jivan jyoti S.H.G.	22-8-2011	Shankar	Laxmi DEvi	0	4	3	7		Under process		Mini daal mill
135			Nari shakti S.H.55 G.	13-8-2011	Ankita Devi	Shyamsundar	5	0	2	7		Under process		Mini floor mill
136			Sri Shiv S.H.G.	27-8-2011	Shreeram	Shantoshi	6	0	1	7		Under process		Black smith
137			Pragati S.H.G.	14-8-2011	Surbhit kumar	keerti Devi	7	0	0	7		Under process		Fruit processing

138			Lalbhagat S.H.G.	3-8-2011	Pushpa Devi	Mamta Devi	4	2	1	7		Under process		Vermi compost
139			Pooja S.H.G.	15-8-2011	Moti lal	Gulla devi	5	2		7		Under process		Silai
140		Binha	Jai Bharat S.H.G.	9-8-2011	Laxman Verma	Parvati Devi	4	2	2	8		Under process		General Marchant
141			Navyug S.H.G.	8-8-2011	Kaoshlya Devi	Bishnu	5	2		7		Under process		Hen Keeping
142			Bimnath S.H.G.	17-8-2011	Ganesh lal	Sudha Devi	5	1	1	7		Under process		Dairy work
143			Kiran S.H.G.	28-8-2011	Rajeev	Preeti	5	2	1	8		Under process		Tent house
144			Vinayak S.H.G.	29-8-2011	Prashant	Nirmala	6	1	0	7		Under process		Tailoring
145			Sri Narshi S.H.G.	1-9-2011	Sudheer Kumar	Lalli Devi	7	0	0	7		Under process		Hen keeping
146			Jai Ambe S.H.G	15-9-2011	Chhiteshwar Verma	Suniya Devi	4	4	0	8		Under process		Rope making
147			Savgun S.H.G.	3-9-2011	Umawati Devi	Gautam Kumar	4	2	1	7		Under process		Mini daal mill
148			Nutan S.H.G.	9-9-2011	Vikask Kumar	Muniya Devi	4	3	0	7		Under process		Mini floor mill
149		pakkha	Jai Shri S.H.G.	11-9-2011	Shusma Devi	Shri Ram	5	4	1	10		Under process		Black smith
150			.Swayavandana S.H.G.	17-9-2011	Ra pyare	Shudha Devi	6	2	1	9		Under process		Fruit processing
151			Harsiddhi	8-9-2011	Shyam kishan	Jamuna Devi	4	2	2	8		Under process		Vermi compost

			S.H.G.											
152			Adarsh S.H.G	22-9-2011	Shambhu nath	Veera Devi	5	2	0	7		Under process		Silai
153			Sama S.H.G.	25-9-2011	Ajay Pal	M<eera Devi	0	1	6	7		Under process		General Marchant
154			Ekta S.H.G.	29-9-2011	Kuldeep Kumar	Nidha Kumar	5	1	1	7		Under process		Hen Keeping
155		naina	Shri varsha S.H.G.	2-10-2011	Nidhi Devi	Manoj Kumar	6	1	0	7		Under process		Dairy work
156			vahanv ati S.H.G	5-10-2011	Raju Kumar	Neeru Devi	5	2	0	7		Under process		Tent house
157			Navod aya S.H.G	11-10-2011	Maya Devi	Hemant Kumar	5	2	1	8		Under process		Tailoring
158			Navyu g S.H.G	15-10-2011	Menka Devi	Ganesh	4	2	1	7		Under process		Hen keeping
159			Navch etan S.H.G	19-10-2011	Jayant Kumar	Ramlali Devi	3	3	1	7		Under process		Rope making
160			Ambed kar S.H.G	22-10-2011	Pushpender	Pushpa Devi	0	3	4	7		Under process		Mini daal mill
161		Balbir naina	Utkars h S.H.G	25-10-2011	Rajendra	Mahumit a Devi	4	2	1	7		Under process		Mini floor mill
162			Gayatri S.H.G	27-10-2011	Munni Devi	Narayan lal	4	3	1	8		Under process		Black smith
163			Shri vimal S.H.G	29-10-2011	Aarti Devi	Sheelu	4	5	0	9		Under process		Fruit processing

164			Aekta bachat S.H.G	1-11-2011	Aasha Devi	parneeta	4	4	2	10		Under process		Vermi compost
165			Shraddha S.H.G	9-11-2011	Vindhyachali Devu	Ram lal	5	2	0	7		Under process		Silai
166			Gramin vikas S.H.G	3-11-2011	Divya	Chandu	6	1	0	7		Under process		General Marchant
167			Shri balaji S.H.G	10-11-2011	Ram raj	Ram prakash	4	2	1	7		Under process		Hen Keeping
168		Chhapiya	Chamunda S.H.G	2-11-2011	Vinay Kumar	Bindiya Devi	3	3	1	7		Under process		Dairy work
169			Shiv Shakti S.H.G	4-11-2011	Chandrapra bha Devi	Suniya Devi	5	2	0	7		Under process		Tent house
170			Nilkhant S.H.G	7-11-2011	Ram raj	Kamla Devi	6	1	0	7		Under process		Tailoring
171			Gayatri S.H.G	15-11-2011	Vijay kumar	Parwati Devi	0	2	5	7		Under process		Hen keeping
172			Jai narsang S.H.G	21-11-2011	Rajkishor kumar	Laxmi Devi	5	0	2	7		Under process		Rope making
173			Navnirman S.H.G	17-11-2011	Navlu Verma	Sukumari devi	6	0	1	7		Under process		Mini daal mill
174			Baba Ramdev S.H.G.	11-11-2011	Parmila Devi	Subhash Kumar	4	0	4	8		Under process		Mini floor mill
175		bopatpur	Paras Bachat S.H.G.	19-11-2011	Dwarika verma	Suneeta Devi	0	4	3	7		Under process		Black smith

176			Sri Shakti S.H.G.	20-11-2011	Madan lal	Khurmi Verma	4	0	4	8		Under process		Fruit processing
177			Sri Gayatri S.H.G.	26-11-2011	Gyatri Devi	swati Devi	4	0	3	7		Under process		Vermi compost
178			Sri Ganesh S.H.G.	29-11-2011	Rai Verma	Ramwati devi	0	5	4	9		Under process		Silai
179			Vahan vati S.H.G	5-11-2011	Leela Devi	Ramlal Verma	5	0	2	7		Under process		General Marchant
180			Ekta S.H.G	30-11-2011	Sraswati Devi	Sita Devi	7	0	3	10		Under process		Hen Keeping
181			Divyas hakti S.H.G.	2-12-2011	Bhuleshwa ri Devi	Ritu Verma	4	0	3	7		Under process		Dairy work
182			Eklavy a S.H.G.	5-12-2011	Dilip Kumar	Lalita Devi	4	0	4	8		Under process		Tent house
183			Shri Adarsh S.H.G	9-12-2011	Ram dulare	munni Devi	4	0	3	7		Under process		Tailoring
184			Shri Hari S.H.G.	13-12-2011	Sheela Devi	Ajay pal Verma	5	0	2	7		Under process		Hen keeping
185			Sewas hra S.HG.	15-12-2011	Birju Verma	Ganga Devi	4	0	4	8		Under process		Rope making
186			Prayas S.H.G	17-12-2011	Kamla Devi	Sarawati Devi	4	0	3	7		Under process		Mini daal mill
187			Shradd ha S.H.G.	19-12-2011	Gaatri Devi	Shanti Devi	5	0	2	7		Under process		Mini floor mill

188			Vikash S.H.G	21-12-2011	Bhushan Kumar	Parwai Devi	6	0	1	7		Under process		Black smith
189			Harsiddhi S.H.G	23-12-2011	Leela Devi	Bhushan Verma	6	0	1	7		Under process		Fruit processing
190			Jai mahakali S.H.G.	25-12-2011	Sandhya Verma	Raju	7	0	0	7		Under process		Vermi compost
191			Saraswati S.H.G.	26-12-2011	Pooja Devi	Suresh verma	4	0	4	8		Under process		Silai
192			Srikrishna S.H.G	28-12-2011	Sanjay Yadav	Janki Devi	5	0	2	7		Under process		General Marchant
193			Shakti S.H.G.	30-12-2011	Ramesh Yadav	Arpana Devi	0	6	1	7		Under process		Hen Keeping
194			janshakti S.H G	31-12-2011	Parwatidevi	shabitri devi	7	0	2	9		Under process		Dairy work
195			Sri Laxmi S.H G	2-1-2011	Usha Devi	Vimal kumar	7	0	3	10		Under process		Tent house
196			Jivan jyoti S.H.G.	5-1-2011	Sharda devi	Narayan Verma	6	0	3	9		Under process		Tailoring
197			Nari shakti S.H.55 G.	7-1-2012	Lal muni	Aasha Devi	4	2	2	8		Under process		Hen keeping
198			Sri Shiv S.H.G.	9-2-2012	Sanjay Verma	Sudha Verma	5	1	1	7		Under process		Rope making
199			Pragati S.H.G.	11-1-2012	Umashankar	Savitrui Devi	5	2	0	7		Under process		Mini daal mill
200			Lalbhagat S.H.G.	12-1-2012	Kamta Prasad	Sunita Devi	0	1	6	7		Under process		Mini floor mill

201			Pooja S.H.G.	15-1-2012	Kaoshalya Devi	Raj kumar	4	3	0	7		Under process		Black smith
202			Navyug S.H.G.	17-1-2011	Hemlata Devi	Ram muniya Devi	4	4	1	9		Under process		Fruit processing
203			Nutan S.H.G.	19-1-2011	Usha Devi	Narayani Devi	5	1	1	7		Under process		Vermi compost

Focus group Discussion

Table No.4.3: Details of Self Help Groups (SHGs) in the project area

S. N.	Name of MWS	Total no. of Constituted/registered SHGs				No. of members				No. of SC/ST in each category			No. of BPL in each category		
		With only Men	With only Women	With both	Total	Categories	M	F	Total	M	F	Total	M	F	Total
1	Chhaprasarib	3	20	7	30	(i) Landless	30	100	130	25	65	90	20	50	70
						(ii) SF	-	-	-	-	-	-	-	-	-
						(iii) MF	11	69	80	8	35	43	5	38	43
						(iv) LF	-	-	-	-	-	-	-	-	-
						Total	**41**	**169**	**210**	**33**	**100**	**133**	**25**	**88**	**113**
2	Jharkataha	10	23	7	40										
						(i) Landless	80	120	200	35	65	100	20	50	70
						(ii) SF	-	-	-	-	-	-	-	-	-
						(iii) MF	50	30	80	15	13	28	5	18	23
						(iv) LF	-	-	-	-	-	-	-	-	-
						Total	**130**	**150**	**280**	**50**	**78**	**128**	**25**	**68**	**93**
3	Husenabad	10	23	7	30										
						(i) Landless	40	90	130	35	55	90	20	50	70
						(ii) SF	-	-	-	-	-	-	-	-	-
						(iii) MF	21	59	80	12	31	43	5	38	43
						(iv) LF	-	-	-	-	-	-	-	-	-
						Total	**41**	**169**	**210**	**47**	**86**	**133**	**25**	**88**	**113**
4	Mahadhanpur	10	21	9	30										
						(i) Landless	30	100	130	25	65	90	20	50	70
						(ii) SF	-	-	-	-	-	-	-	-	-
						(iii) MF	11	69	80	8	35	43	5	38	43
						(iv) LF	-	-	-	-	-	-	-	-	-
						Total	**41**	**169**	**210**	**33**	**100**	**43**	**25**	**88**	**113**
5	Udaha	7	23	20	50										
						(i) Landless	130	100	230	55	65	120	50	40	90
						(ii) SF	-	-	-	-	-	-	-	-	-
						(iii) MF	51	69	120	25	45	70	15	38	53
						(iv) LF	-	-	-	-	-	-	-	-	-
						Total	**181**	**169**	**350**	**80**	**110**	**190**	**65**	**78**	**143**

Table No. 4.4: Details of User Groups

	Name of Micro watershed with code	Total no. of UGs				No. of members				No. of SC/ST in each category			No. of BPL in each category		
		Men	Women	Both	Total	Categories	M	F	Total	M	F	Total	M	F	Total
1	Chhaprasar-ib 2B1A2b2a	6	1	--	7	(i)Landless	-	0	0	0	0	0	0	0	0
						(ii) SF	18	5	23	9	10	19	10	5	15
						(iii) MF	23	2	25	7	2	9	-	5	5
						(iv) LF	7	-	7	-	-	-	-	-	-
						Total	**48**	**7**	**55**	**16**	**12**	**28**	**10**	**10**	**20**
2	Jharkataha 2B1A2b1b	5	1	--	6										
						(i)Landless	0	0	0	0	0	0	0	0	0
						(ii) SF	10	8	18	11	3	14	5	3	8
						(iii) MF	14	9	23	6	2	8	2	--	2
						(iv) LF	5	2	7	0	0	0	0	0	0
						Total	**29**	**19**	**48**	**17**	**5**	**22**	**7**	**3**	**10**
3	Husenabad 2B1A2b1d	3	--	--	3										
						(i)Landless	0	0	0	0	0	0	0	0	0
						(ii) SF	35	16	51	10	9	19	10	5	15
						(iii) MF	15	10	25	7	2	9	-	5	5
						(iv) LF	5	3	8	-	-	-	-	-	-
						Total	**95**	**65**	**27**	**37**	**26**	**63**	**35**	**33**	**68**
4	Mahadhanpur 2B1A2b2b	2	--	--	--										
						(i)Landless	0	0	0	0	0	0	0	0	0
						(ii) SF	7	-	7	6	3	9	7	3	10
						(iii) MF	7	4	11	7	2	9	-	1	1
						(iv) LF	3	3	6	-	-	-	-	-	-
						Total	**17**	**7**	**24**	**13**	**5**	**18**	**7**	**4**	**11**
5	Udaha 2B1A2b1c	4	2	--	6										
						(i)Landless	0	0	0	0	0	0	0	0	0
						(ii) SF	16	6	22	9	2	11	6	3	9
						(iii) MF	13	7	20	7	2	9	-	2	2
						(iv) LF	5	1	6	-	-	-	-	-	-
						Total	**34**	**14**	**48**	**16**	**4**	**20**	**6**	**5**	**11**

Table No.4.6: List of identified training institutes for capacity building

S. No.	Name of the Training Institute	Full Address with contact no, website & e-mail	Designation of the Head of Institute	Type of Institute	Area(s) of specialization	No. of training assigned	No. of persons to be trained	Allocation to be made to the institute
1	2	3	4	5	6	7	8	9
	DIRD/CSWCRTI	Beli kalan, Balmi Lko.	Director Genral	State Level	Soil & Watershed Managemet, Agriculture, Horticulture, Production System,	2	45	Lko.
	DTI	Ballia	D.O.	Districk Level	Livelihood, SHG	1	63	Ballia
	NDKV	Faizabad	D.D.	State Level	Livelihood	1	50	Faizabad
	KVK	Ballia	B.S.A.	WDT Level	Livelihood	20	3342	At village level
	Total					**24**	**3500**	

Table No. 4.7: Demostration of Mazor Crops (Component Wise cost)

Wheat

Demostration Budget(Component wise) of Wheat					
S. No.	**Particulars**	**Quantity**	**Rate**	**Amount**	**Remarks**
1	Soil Testing	-	38/-	38	
2	Tillage Operation or Preparation of Field for sowing	-	-	-	Done by the Farmer
3	Cost of Seed	100/kg	18/kg	1800	
4	Seed treatment	200 gm Carbandazym	500/kg.	200	
5	Sowing by Seed Drill	-	-	-	Done by the Farmer
6	D.A.P.	210 kg	911/50 kg	3826.2	
7	Urea	150 kg	311/50 kg	933	
8	Potash M.O.P.)	67 kg	300/ 50 kg	402	
9	IPM	1 .00 ha	1000/ ha	1000	
10	FYM	10 t/ha	L.S.	1500	
11	Irrigation (two times)	-	-	-	Done by the Farmer
12	Harvesting	-	-	-	Done by the Farmer
13	Board	1	500	500	
TOTAL :				**10199.2**	
Crop Demonstration for 0.25 ha/farmer				**2549.8**	
Farmer's Contribution					
For SC/ST 10%				**255**	WDF
For Others 20%				**509.96**	WDF

Table No. 4.7.1: Gram

Demostration Budget(Component wise) of Gram					
S. No.	**Particulars**	**Quantity**	**Rate**	**Amount**	**Remarks**
1	Soil Testing	-	38/-	38	
2	Tillage Operation or Preparation of Field for sowing	-	-	-	Done by the Farmer
3	Cost of Seed	80/kg	90/kg	7200	
4	Seed treatment	2 kg Rhizobium Culture	500/kg.	200	
5	Sowing by Seed Drill	-	-	-	Done by the Farmer
6	D.A.P.	175 kg	911/50 kg	3188.5	
7	Sulpher	20 kg	100/kg	2000	
8	Potash M.O.P.)	65 kg	300/ 50 kg	390	
9	IPM	1 .00 ha	1000/ ha	1000	
10	FYM	10 t/ha	L.S.	1500	
11	Irrigation (two times)	-	-	-	Done by the Farmer
12	Harvesting	-	-	-	Done by the Farmer
13	Board	1	500	500	
TOTAL :				**16016.5**	
Crop Demonstration for 0.25 ha/farmer				**4004.13**	
Farmer's Contribution					
For SC/ST 10%				**400**	
For Others 20%				**801**	

Table No. 4.7.2: Arhar

Demostration Budget(Component wise) of Arhar					
S. No.	**Particulars**	**Quantity**	**Rate**	**Amount**	**Remarks**
1	Soil Testing	-	38/-	38	
2	Tillage Operation or Preparation of Field for sowing	-	-	-	Done by the Farmer
3	Cost of Seed	20/kg	120/kg	2400	
4	Seed treatment	400 gm Rhizobium Culture	500/kg.	200	
5	Sowing by Seed Drill	-	-	-	Done by the Farmer
6	N.P.K (12 : 21 :16)	190 kg	470/50 kg	1786	
	Sulpher	20 kg	100/kg	2000	
7	IPM	1 .00 ha	1000/ ha	1000	
8	FYM	10 t/ha	L.S.	1500	
9	Harvesting	-	-	-	Done by the Farmer
10	Board	1	500	500	
TOTAL :				**9424**	
Crop Demonstration for 0.25 ha/farmer				**2356**	
Farmer's Contribution					
For SC/ST 10%				**236**	
For Others 20%				**471**	

Table No. 4.7.3: Musterd

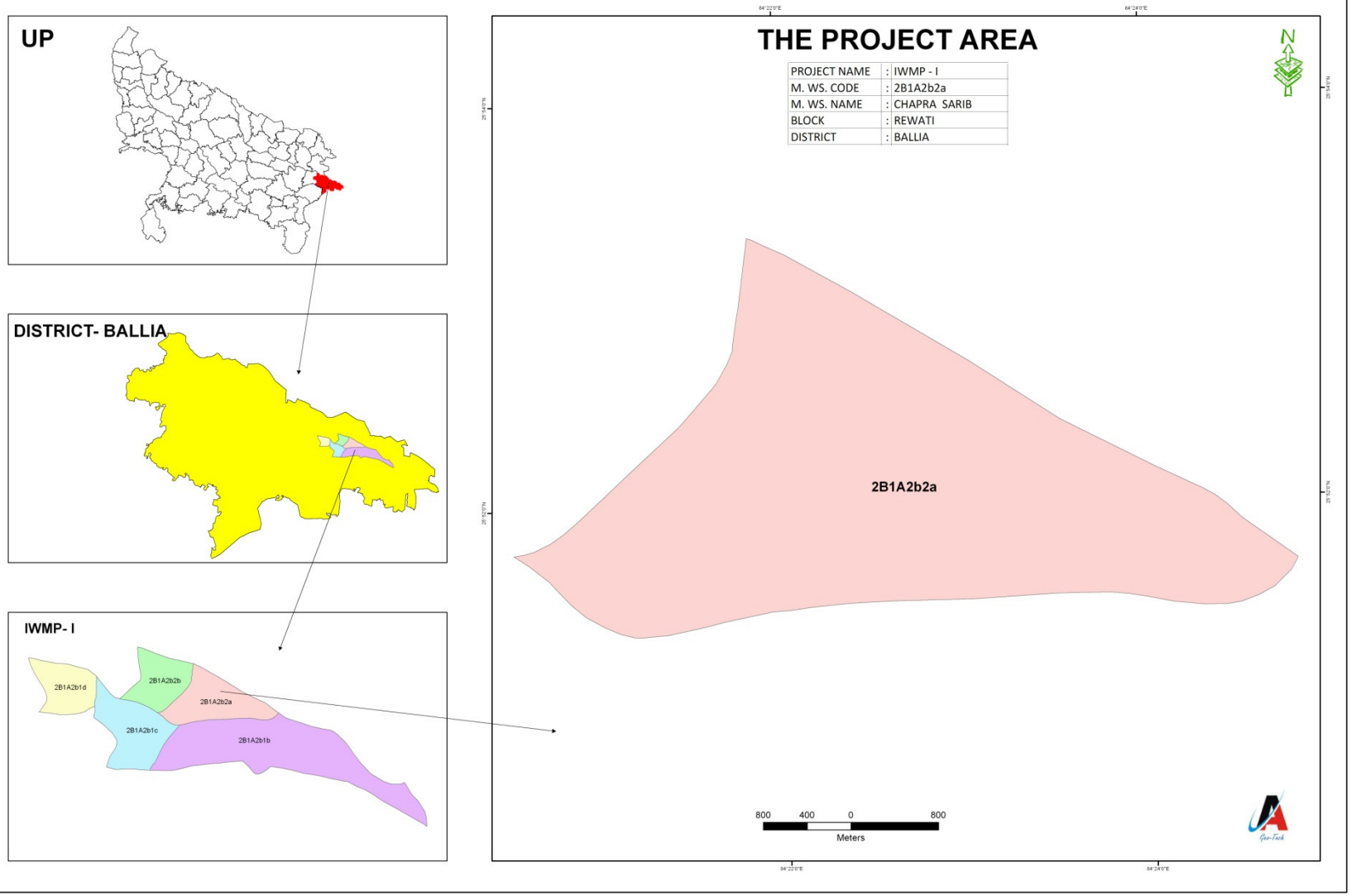
Demostration Budget(Component wise) of Mustard					
S. No.	**Particulars**	**Quantity**	**Rate**	**Amount**	**Remarks**
1	Soil Testing	-	38/-	38	
2	Tillage Operation or Preparation of Field for sowing	-	-	-	Done by the Farmer
3	Cost of Seed	5.00 kg	90/kg	450	
4	Seed treatment	30 gm Carbandazym	500/kg.	75	
5	Sowing by Seed Drill	-	-	-	Done by the Farmer
6	D.A.P.	210 kg	911/50 kg	3826.2	
7	Urea	150 kg	311/50 kg	933	
8	Potash M.O.P.)	67 kg	300/ 50 kg	402	
9	IPM	1 .00 ha	1000/ ha	1000	
	IPM Kit	10 nos.	150/kit	1500	
10	FYM	10 t/ha	L.S.	1500	
11	Irrigation (two times)	-	-	-	Done by the Farmer
12	Harvesting	-	-	-	Done by the Farmer
13	Board	1	500	500	
TOTAL :				**10224.2**	
Crop Demonstration for 0.25 ha/farmer				**2556.05**	
Farmer's Contribution					
For SC/ST 10%				**256**	
For Others 20%				**511.21**	

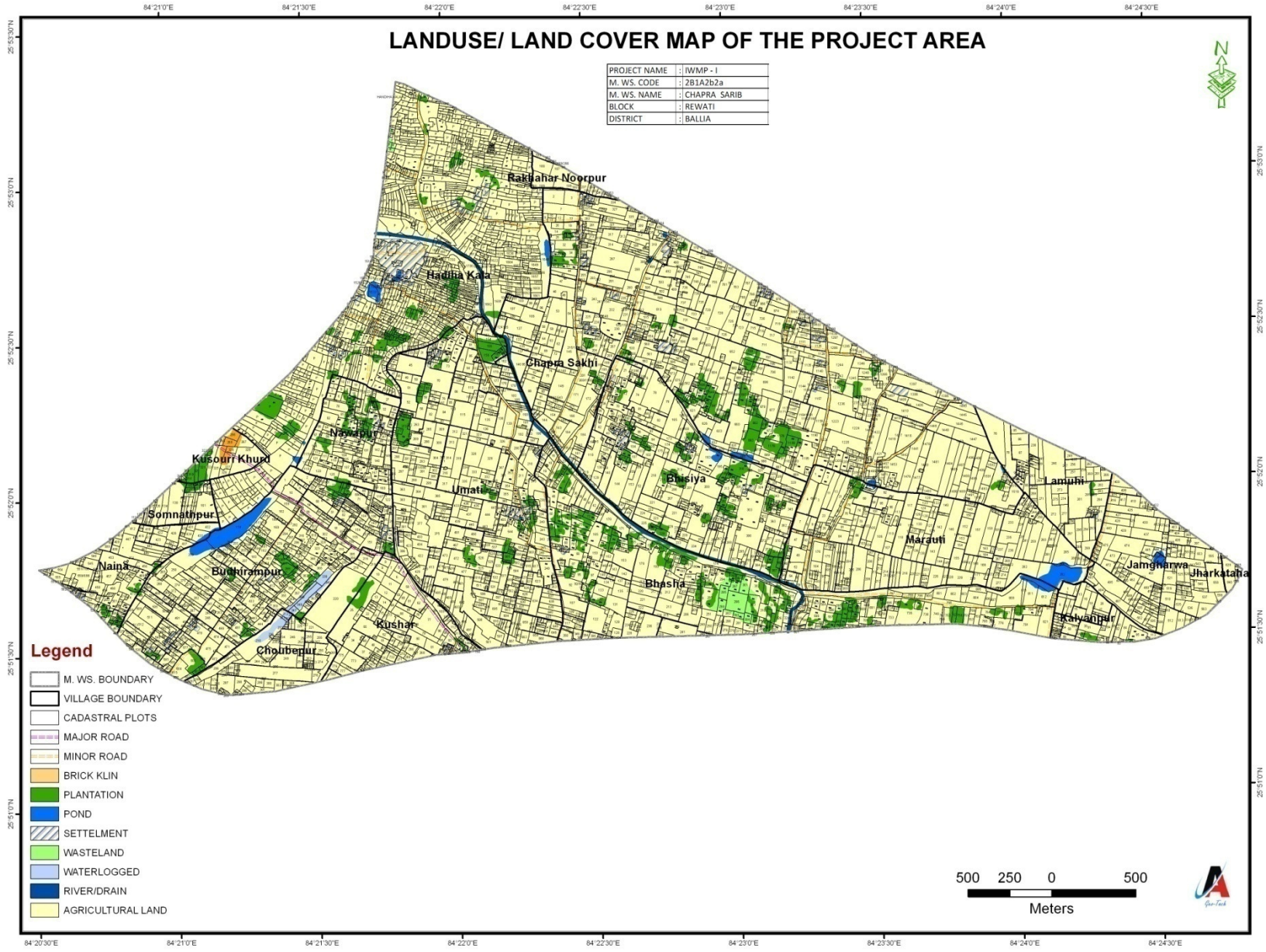
Table No. 4.7.4: Maize

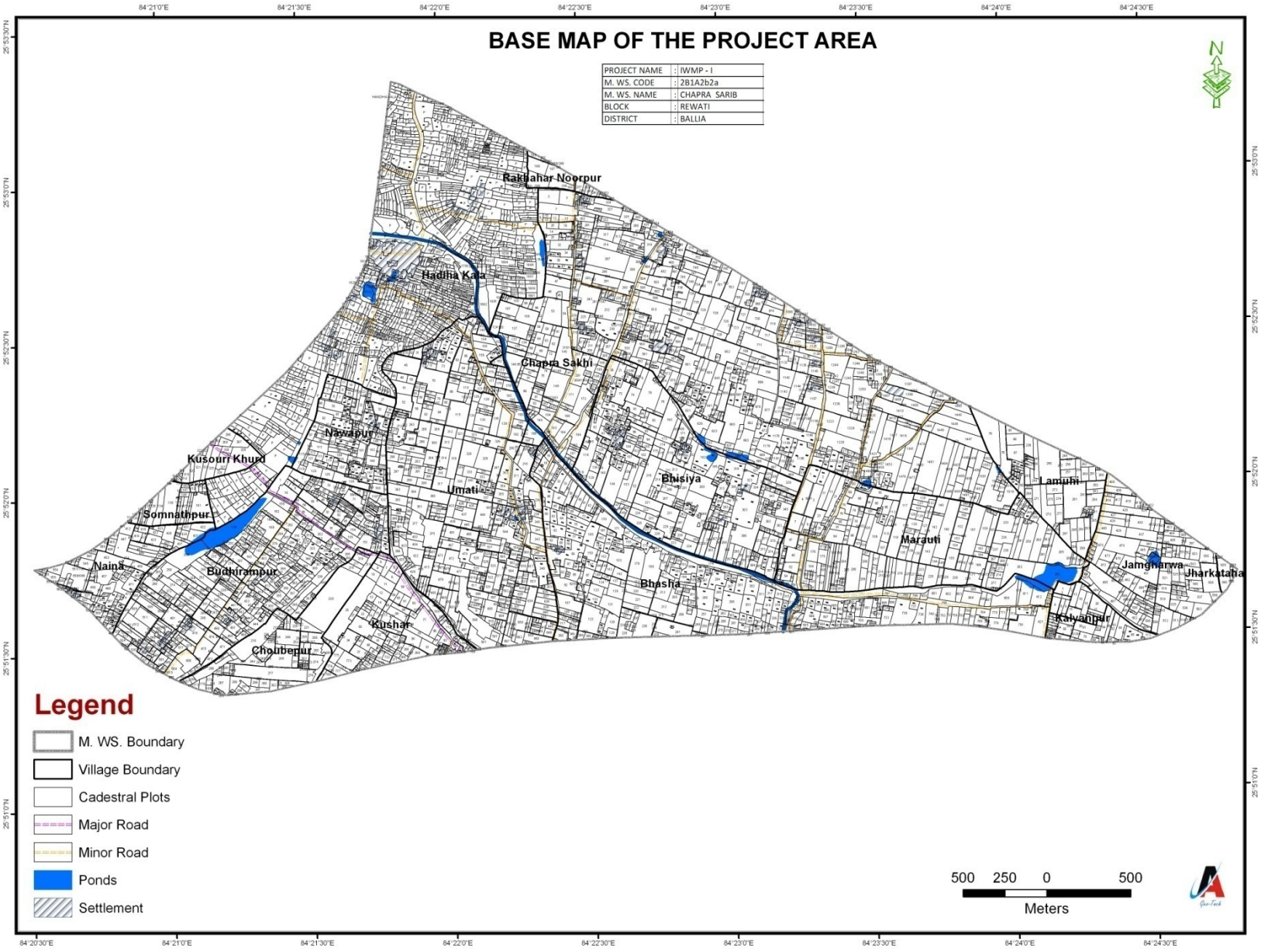
Demostration Budget(Component wise) of Maize					
S. No.	**Particulars**	**Quantity**	**Rate**	**Amount**	**Remarks**
1	Soil Testing	-	38/-	38	
2	Tillage Operation or Preparation of Field for sowing	-	-	-	Done by the Farmer
3	Cost of Seed	5.00 kg	75/kg	375	
4	Seed treatment	30 gm Carbandazym	500/kg.	75	
5	Sowing by Seed Drill	-	-	-	Done by the Farmer
6	D.A.P.	210 kg	911/50 kg	3826.2	
7	Urea	150 kg	311/50 kg	933	
8	Potash M.O.P.)	67 kg	300/ 50 kg	402	
	Zinc Sulphate	5 kg	1340/20kg	335	
9	IPM	1 .00 ha	1000/ ha	1000	
	IPM Kit	10 nos.	150/kit	1500	
10	FYM	10 t/ha	L.S.	1500	
11	Irrigation (two times)	-	-	-	Done by the Farmer
12	Harvesting	-	-	-	Done by the Farmer
13	Board	1	500	500	
TOTAL :				**10484.2**	
Crop Demonstration for 0.25 ha/farmer				**2621.05**	
For SC/ST 10%				**262**	
For Others 20%				**524.21**	

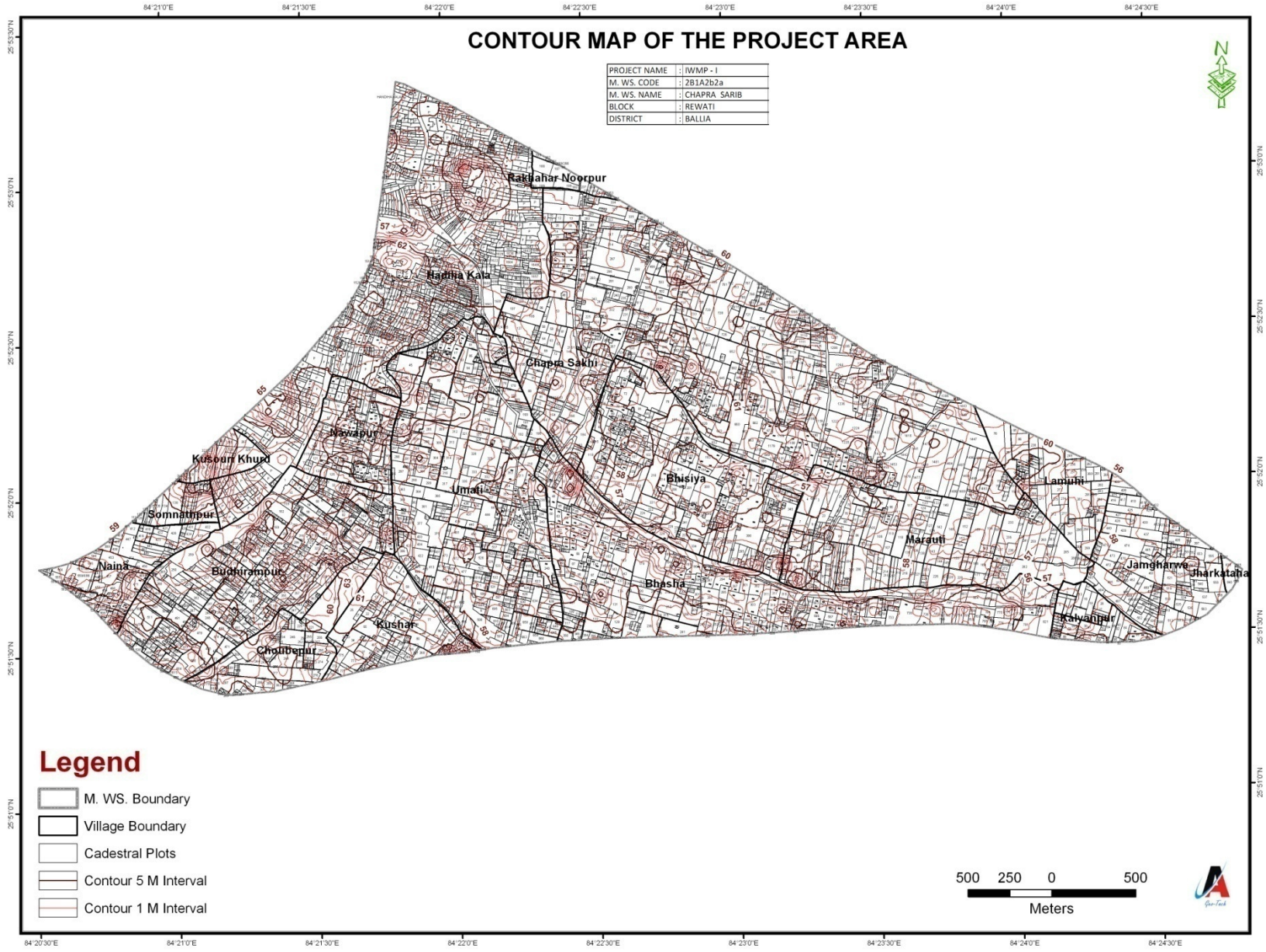
LOCATION MAP OF THE PROJECT AREA

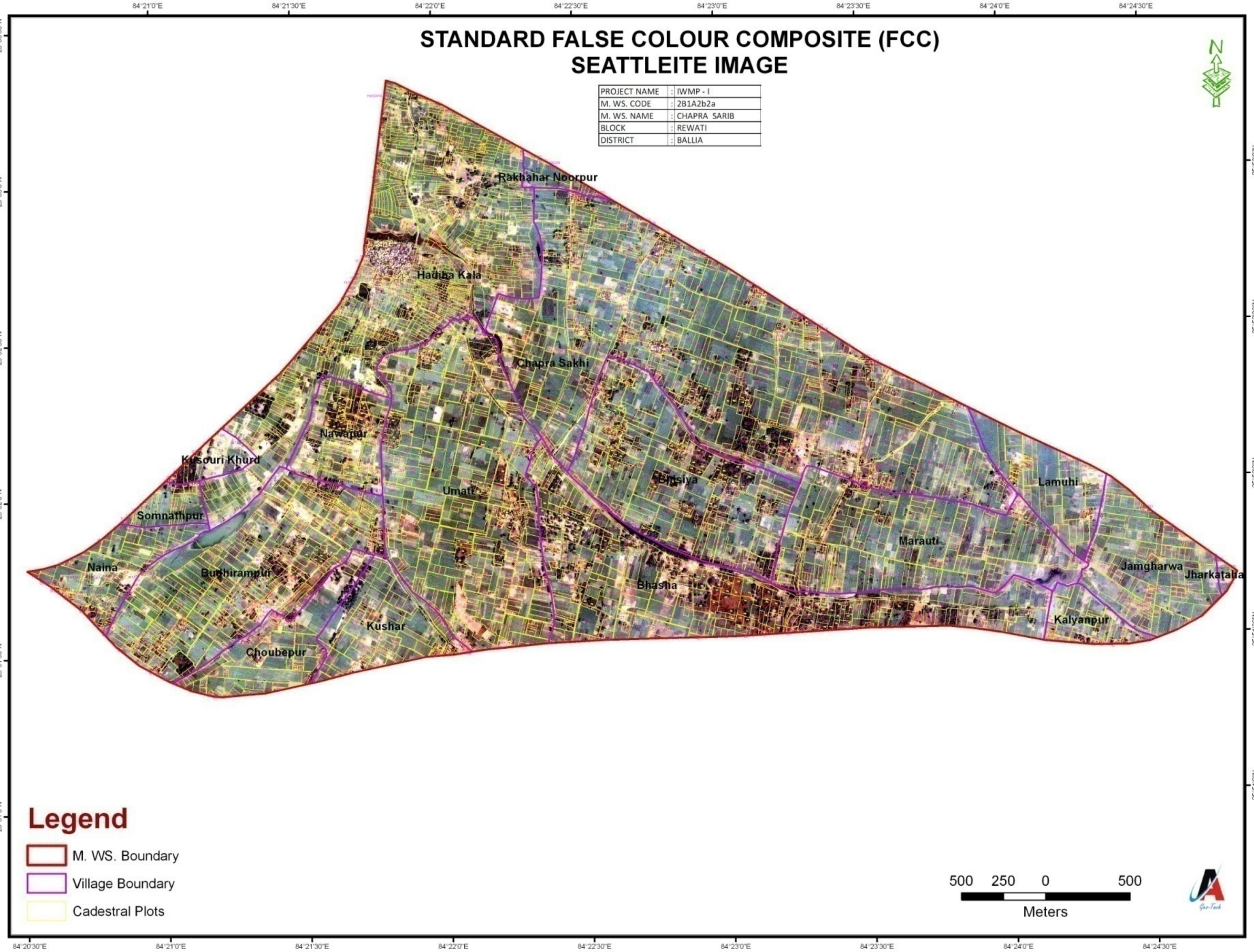
DISTRICT - BALLIA

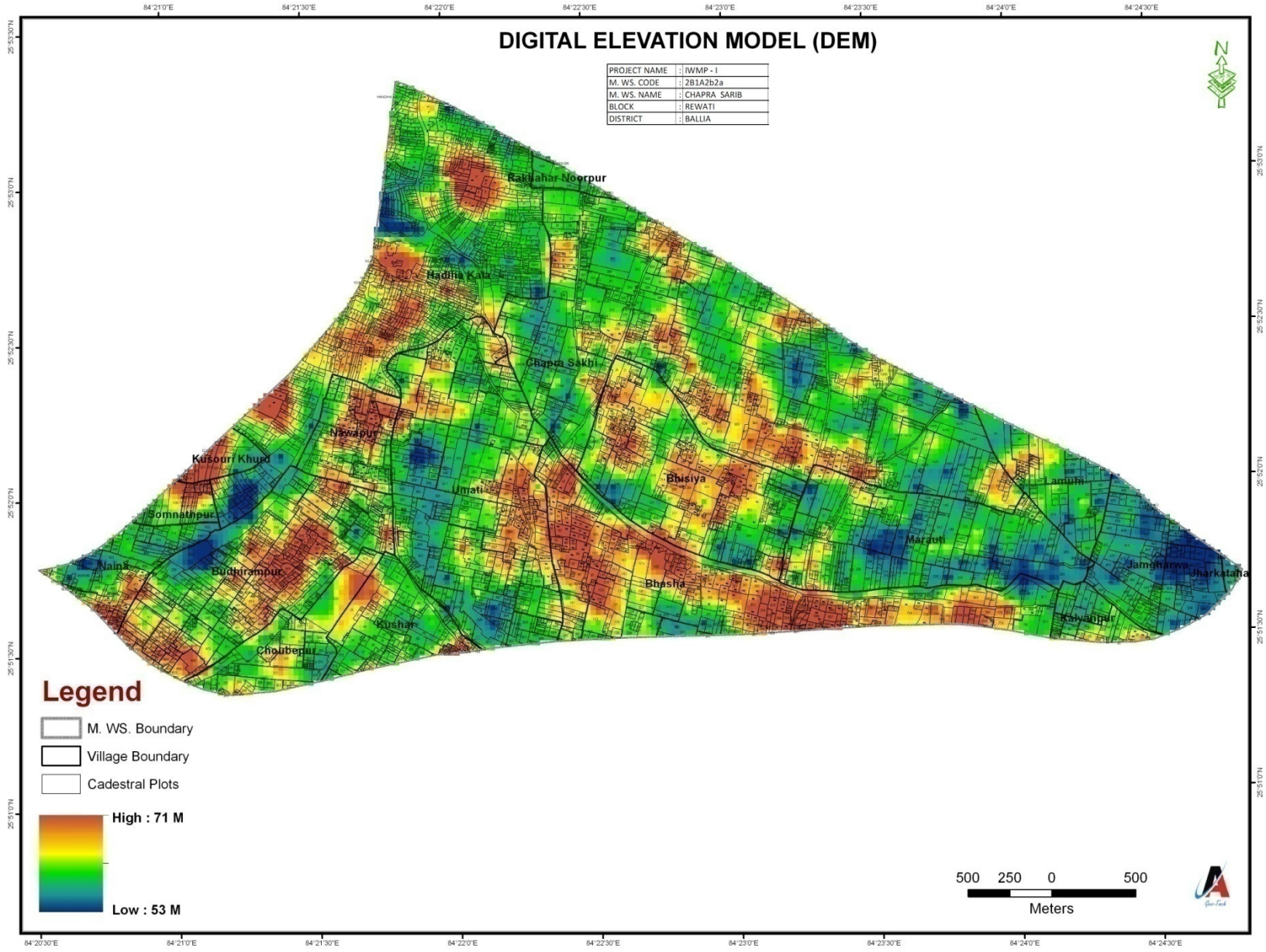



LANDUSE/ LAND COVER MAP OF THE PROJECT AREA
PROJECT NAME : IWMP - I
M. WS. CODE : 2B1A2b2a
M. WS. NAME : CHAPRA SARIB
BLOCK : REWATI
DISTRICT : BALLIA
N
Rakhahar Noorpur
Hadiha Kala
Chapra Sakhi
Nayapur
Kusouri Khurd
Somnathpur
Umati
Bhusiya
Lamuhi
Maraiti
Jamgharwa
Jharkatahia
Kalyanpur
Naina
Budhirampur
Bhasha
Kushar
Choliberpur
Legend
M. WS. BOUNDARY
VILLAGE BOUNDARY
CADASTRAL PLOTS
MAJOR ROAD
MINOR ROAD
BRICK KLIN
PLANTATION
POND
SETTELMENT
WASTELAND
WATERLOGGED
RIVER/DRAIN
AGRICULTURAL LAND
500 250 0 500
Meters
84°20'30"E
84°21'0"E
84°21'30"E
84°22'0"E
84°22'30"E
84°23'0"E
84°23'30"E
84°24'0"E
84°24'30"E
25°53'0"N
25°52'30"N
25°52'0"N
25°51'30"N
25°51'0"N


BASE MAP OF THE PROJECT AREA
PROJECT NAME : IWMP - I
M. WS. CODE : 2B1A2b2a
M. WS. NAME : CHAPRA SARIB
BLOCK : REWATI
DISTRICT : BALLIA
N
Rakhahar Noorpur
Hadiha Kala
Chapra Sakhi
Nawapur
Kusourr Khurd
Somnathpur
Umati
Bhisiya
Lamuhi
Maraiti
Jamgharwa
Jharkatatia
Naina
Budhirampur
Bhasha
Kushar
Kalyanpur
Chouberpur
Legend
M. WS. Boundary
Village Boundary
Cadestral Plots
Major Road
Minor Road
Ponds
Settlement
500 250 0 500
Meters


CONTOUR MAP OF THE PROJECT AREA
PROJECT NAME : IWMP - I
M. WS. CODE : 2B1A2b2a
M. WS. NAME : CHAPRA SARIB
BLOCK : REWATI
DISTRICT : BALLIA
N
Rakhahar Noorpur
Hadiha Kala
Chapra Sakhi
Nawapur
Kusoum Khurd
Somnathpur
Naina
Budhirampur
Chaubepur
Kushar
Umati
Bhisiya
Bhasha
Maruti
Lamuhi
Jamgharwa
Jharkatahia
Kalyanpur
Legend
M. WS. Boundary
Village Boundary
Cadestral Plots
Contour 5 M Interval
Contour 1 M Interval
500 250 0 500
Meters


STANDARD FALSE COLOUR COMPOSITE (FCC)
SEATTLEITE IMAGE
PROJECT NAME : IWMP - I
M. WS. CODE : 2B1A2b2a
M. WS. NAME : CHAPRA SARIB
BLOCK : REWATI
DISTRICT : BALLIA
N
Rakhahar Noorpur
Hadiha Kala
Chapra Sakhi
Nawapur
Kusouri Khurd
Umati
Lamuhi
Somnathpur
Naina
Budhirampur
Marauti
Jamgharwa
Jharkatalia
Bhasha
Kalyanpur
Kushar
Choubepur
Legend
M. WS. Boundary
Village Boundary
Cadestral Plots
500 250 0 500
Meters


DIGITAL ELEVATION MODEL (DEM)
PROJECT NAME : IWMP - I
M. WS. CODE : 2B1A2b2a
M. WS. NAME : CHAPRA SARIB
BLOCK : REWATI
DISTRICT : BALLIA
N
Rakhahar Noorpur
Hadiha Kala
Chapra Sakhi
Nawapur
Kusouri Khurd
Somnathpur
Umati
Bhisiya
Lamuhi
Maraiti
Jamgharwa
Jharkatahia
Naina
Budhirampur
Bhasha
Kushar
Chaubepur
Kalyanpur
Legend
M. WS. Boundary
Village Boundary
Cadestral Plots
High : 71 M
Low : 53 M
500 250 0 500
Meters
84°20'30"E
84°21'0"E
84°21'30"E
84°22'0"E
84°22'30"E
84°23'0"E
84°23'30"E
84°24'0"E
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25°53'0"N
25°52'30"N
25°52'0"N
25°51'30"N
25°51'0"N

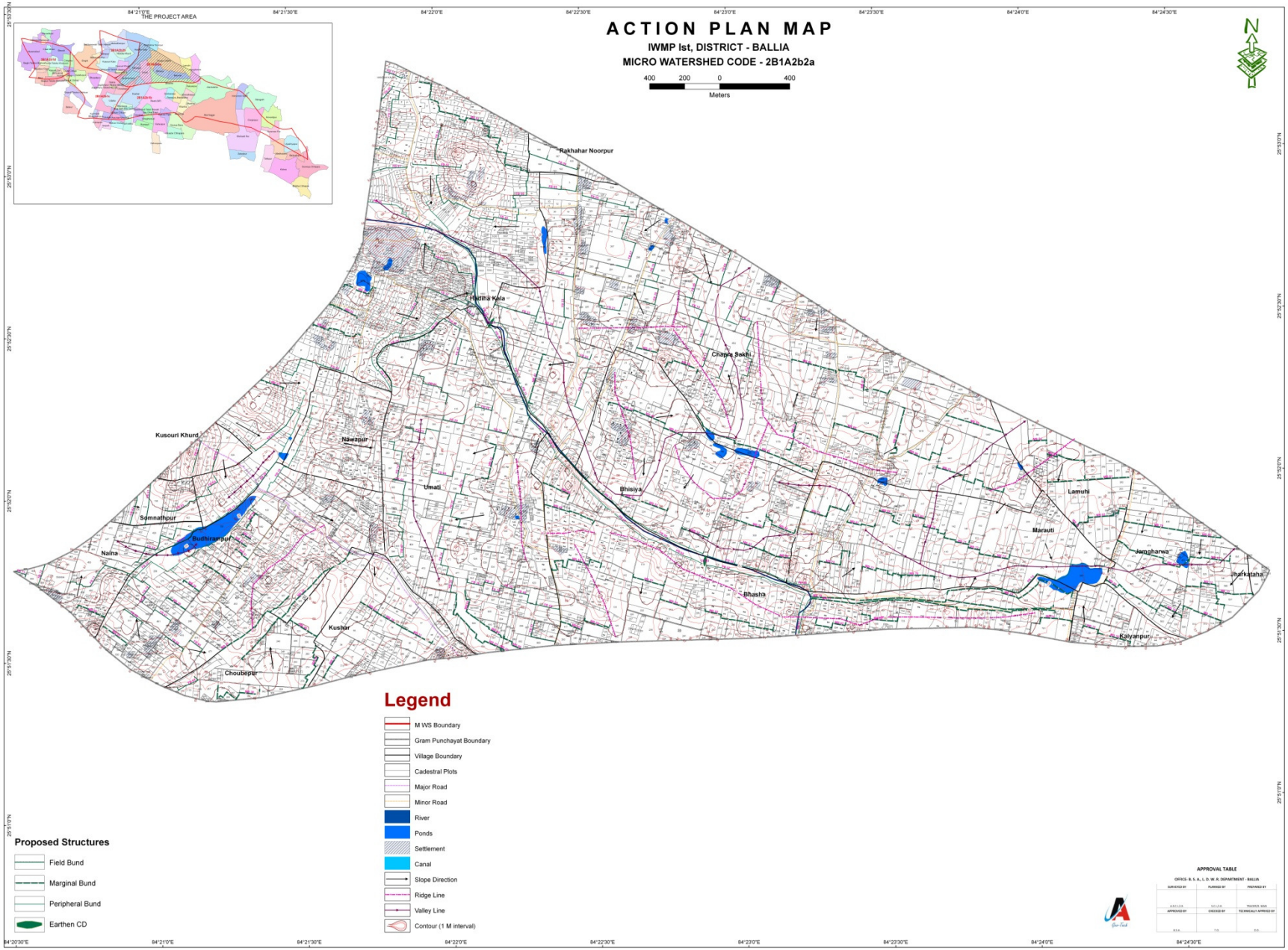

ACTION PLAN MAP
IWMP Ist, DISTRICT - BALLIA
MICRO WATERSHED CODE - 2B1A2b2a
400 200 0 400
Meters
THE PROJECT AREA
Rakhahar Noorpur
Hatiha Kala
Chapra Sakhi
Kusouri Khurd
Nawapur
Umati
Bhisiya
Somnathpur
Budhirampur
Naina
Kushar
Choubepur
Bhasha
Lamuhi
Marauti
Jangharwa
Jharkataha
Kalyanpur
Legend
M WS Boundary
Gram Punchayat Boundary
Village Boundary
Cadestral Plots
Major Road
Minor Road
River
Ponds
Settlement
Canal
Slope Direction
Ridge Line
Valley Line
Contour (1 M interval)
Proposed Structures
Field Bund
Marginal Bund
Peripheral Bund
Earthen CD
APPROVAL TABLE

Table No.4.8: Details of Fund flow of Watershed Committee Accounts (Amount in Rs.)

S. No.	Name of MWS with code	Name of watershed committee (WC)	Opening Balance	Deposit			Withdrawal			Interest accrued	Closing balance
				DRDA/ ZP cheque No./date	Amount / Date of deposit in WC Account	Total amount available in WC Account	Amount withdrawn by Cash/ Cheque	Date of with-drawal	Purpose of with-drawal		
1	2	3	4	5	6	7	8	9	10	11	12
1	Chhaprasarib 2B1A2b2a	Chhaprasarib	-	0107554/ 8/12/2010	9.396	9.396	-	-	-	-	9.396
2	Jharkataha 2B1A2b1b	Jharkataha	-	0107555/ 8/12/2010	11.34	11.34	-	-	-	-	11.34
3	Husenabad 2B1A2b1d	Husenabad	-	0107552/ 8/12/2010	7.875	7.875	-	-	-	-	7.875
4	Mahadhanpur 2B1A2b2b	Mahadhanpu	-	0107553/ 8/12/2010	8.046	8.046	-	-	-	-	8.046
5	Udaha 2B1A2b1c	Udaha	-	0107556/ 8/12/2010	11.745	11.745	-	-	-	-	11.745
	Total for Project					**48.402**					**48.402**

4.2 Entry Point Activities:

Integrated Watershed Development Programme 1st is aimed at the socio economic up liftments of the dweller of watershed area and to create trust about the programme to be implemented so that they can coordinate in participatory mode for the success of the programme. As per the new common guidelines total financial outlay for the entry point activities is 4 % of the total project cost. To increase the per capita availability of drinking water older hand pump rapier of the village will be as well as pacca platform and socking pits will be constructed, to increase the irrigation water availability older bundhies which are already existed but not functioning will be reconstructed/ renovated. Repairing and maintenance of water bodies have been proposed on priority basis. School lies in the watershed areas will be equipped with drinking water facility and extracurricular activities will be promoted among the children in the watershed area by supplying sport goods to the school. To approach watershed village construction and repairing of damaged pulia, link road & seating platform has also been proposed. Total estimated cost for these activities is Rs 25.814 Lacs.

Table no. 4.9: Entry point activities (EPA)

S.No.	Name and code of the MWS	Amount earmarked for EPA	Entry point Activities planned	Estimated cost in Lac.	Expected outcome	Name of agency which selected the EPA#	Expected month & year of completion (mm/yyyy)
1	2	3	4	5	6	7	8
1	Husanabad (2B1A2b1d)	4.200	Hand pumps maintenance -15	0.45	-	WC, PIA, WDT	October, 2010
			Link Road maintenance-4.25 km	1.56	-	WC, PIA, WDT	October, 2010
			Link Road on Edge soling & culvert -4	1.53	-	WC, PIA, WDT	October, 2010
			Public Seating Platform-3	0.66	-	WC, PIA, WDT	October, 2010
2	Mahadhanpur (2B1A2b2b)	4.291	Hand pumps maintenance -17	0.51	-	WC, PIA, WDT	October, 2010
			Link Road maintenance-4.34 km	1.59	-	WC, PIA, WDT	October, 2010
			Link Road on Edge soling & culvert -4	1.53	-	WC, PIA, WDT	October, 2010
			Public Seating Platform-3	0.66	-	WC, PIA, WDT	October, 2010
3	Udaha (2B1A2b1c)	6.264	Hand pumps maintenance -20	0.60	-	WC, PIA, WDT	October, 2010
			Link Road maintenance-6.15 km	2.254	-	WC, PIA, WDT	October, 2010
			Link Road on Edge soling & culvert -6	2.31	-	WC, PIA, WDT	October, 2010
			Public Seating Platform-5	1.10	-	WC, PIA, WDT	October, 2010
4	Chhapra Sarib (2B1A2b2a)	5.011	Hand pumps maintenance -20	0.60	-	WC, PIA, WDT	October, 2010
			Link Road maintenance-2.74 km	1.001	-	WC, PIA, WDT	October, 2010
			Link Road on Edge soling & culvert -6	2.31	-	WC, PIA, WDT	October, 2010
			Public Seating Platform-5	1.10	-	WC, PIA, WDT	October, 2010
5	Jharkataha (2B1A2b1b)	6.048	Hand pumps maintenance -20	0.60	-	WC, PIA, WDT	October, 2010
			Link Road maintenance-5.53 km	2.028	-	WC, PIA, WDT	October, 2010
			Link Road on Edge soling & culvert -6	2.32	-	WC, PIA, WDT	October, 2010
			Public Seating Platform-5	1.10	-	WC, PIA, WDT	October, 2010
	Total	**25.814**		**25.814**			

CHAPTER-5

MANAGEMENT/ ACTION PLAN

ACTION PLAN

Table No. 5.1.1: ANNUAL ACTION PLAN OF LIVELIHOOD

Name of MWS	Sanctioned Amount	Poultry		Dairy		Gen Store		Goatry		Carpentry		Sewing		Candle		Dona Pattal		Kumhar		Total	
		Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
Chhaprasarib	**12.21**	12	3	8	2	5	1	12	3	5	0.6	6	1.5	4	1	0	0	1	0.11	**53**	**12.21**
Jharkataha	**9.86**	5	1.25	3	0.75	2	0.4	9	2.25	3	0.36	3	0.6	13	3.25	2	0.5	5	0.5	**45**	**9.86**
Husainabad	**5.53**	3	0.75	2	0.5	1	0.2	6	1.5	3	0.36	3	0.6	4	1	2	0.5	1	0.12	**25**	**5.53**
Udaha	**8.77**	2	0.5	2	0.5	2	0.4	12	3	4	0.48	4	0.6	12	3	1	0.25	1	0.04	**40**	**8.77**
Mahadhanpur	**4.29**	1	0.25	1	0.25	1	0.2	3	0.75	0	0	6	1.5	5	1.25	0	0	1	0.09	**18**	**4.29**
Total	**40.66**	**23**	**5.75**	**16**	**4**	**11**	**2.2**	**42**	**10.5**	**15**	**1.8**	**22**	**4.8**	**38**	**9.5**	**5**	**1.25**	**9**	**0.86**	**181**	**40.66**

Phy. (No. of Groups)

Fin. (In Lakhs)

Table No. 5.1.2: ACTION PLAN OF PRODUCTION SYSTEM YEAR: 2009-10												
Name of MWS	PADDY		wheat		Gram		Maize		Potato		Total	
	phy.	Fin.	phy.	Fin.	phy.	Fin.	phy.	Fin.	phy.	Fin.	phy.	Fin.
Chhaprasarib	0.5	0.05	0.25	0.06	0	0	0.25	0.03	0	0	1.00	0.14
Jharkataha	0.25	0.03	0	0	0.5	0.08	0	0	0	0	0.75	0.11
Husainabad	0	0	0	0	0	0	0.5	0.06	0	0	0.50	0.06
Udaha	0.5	0.05	0.5	0.05	0	0	0	0	0	0	1.00	0.1
Mahadhanpur	0	0	0	0	0	0	0	0	0.5	0.05	0.50	0.05
Total	**1.25**	**0.13**	**0.75**	**0.11**	**0.5**	**0.08**	**0.75**	**0.09**	**0.5**	**0.05**	**3.75**	**0.46**

Phy. (No. of Groups)

Fin. (In Lakhs)

Table No. 5.1.3: ACTION PLAN OF PRODUCTION SYSTEM YEAR: 2010-11														
Name of MWS	PADDY		wheat		Gram		Maize		Potato		Vegetative Kit		Total	
	phy.	Fin.	phy.	Fin.	phy.	Fin.	phy.	Fin.	phy.	Fin.			phy.	Fin.
Chhaprasarib	1	0.095	1	0.1	0.5	0.08	0	0	0.5	0.06	0	0	3.00	0.335
Jharkataha	0.5	0.06	0.25	0.03	0	0	1	0.1	0.5	0.06	10	0.02	2.25	0.25
Husainabad	0.25	0.03	0	0	0.25	0.04	0.5	0.06	0	0	10	0.02	1.00	0.13
Udaha	0.25	0.03	0.25	0.03	0.5	0.08	1	0.1	0	0	0	0	2.00	0.24
Mahadhanpur	0	0	0.25	0.03	0.25	0.04	0.25	0.03	0	0	10	0.02	0.75	0.1
Total	**2**	**0.215**	**1.75**	**0.19**	**1.5**	**0.24**	**2.75**	**0.29**	**1**	**0.12**	**30**	**0.06**	**9**	**1.055**

Phy. (No. of Groups)
Fin. (In Lakhs)

Table No.5.1.4: ACTION PLAN OF PRODUCTION SYSTEM YEAR: 2011-12														
Name of MWS	PADDY		wheat		Gram		Maize		Potato		Vegetative Kit		Total	
	phy.	Fin.	phy.	Fin.	phy.	Fin.	phy.	Fin.	phy.	Fin.			phy.	Fin.
Chhaprasarib	1	0.095	1	0.1	0.5	0.08	0	0	0.5	0.06	0	0	3.00	0.335
Jharkataha	0.5	0.06	0.25	0.03	0	0	1	0.1	0.5	0.06	10	0.02	2.25	0.25
Husainabad	0.25	0.03	0	0	0.25	0.04	0.5	0.06	0	0	10	0.02	1.00	0.13
Udaha	0.25	0.03	0.25	0.03	0.5	0.08	1	0.1	0	0	0	0	2.00	0.24
Mahadhanpur	0	0	0.25	0.03	0.25	0.04	0.25	0.03	0	0	10	0.02	0.75	0.1
Total	**2**	**0.215**	**1.75**	**0.19**	**1.5**	**0.24**	**2.75**	**0.29**	**1**	**0.12**	**30**	**0.06**	**9**	**1.055**

Phy. (No. of Groups)
Fin. (In Lakhs)

Table No. 5.1.5: ACTION PLAN OF PRODUCTION SYSTEM YEAR: 2012-13

Name of MWS	PADDY		wheat		Gram		Maize		Potato		Vegetative Kit		Total	
	phy.	Fin.	phy.	Fin.	phy.	Fin.	phy.	Fin.	phy.	Fin.			phy.	Fin.
Chhaprasarib	2	0.18	2	0.2	1	0.16	0	0	0	0	0	0	5.00	0.54
Jharkataha	1	0.09	2	0.2	0	0	0.25	0.03	1	0.12	0	0	4.25	0.44
Husainabad	1	0.09	0	0	0.5	0.06	0.5	0	0	0	0	0	2.00	0.15
Udaha	0.25	0.03	1	0.1	0.5	0.08	1	0.1	0.5	0.06	10	0.02	3.25	0.37
Mahadhanpur	0.5	0.06	0.25	0.03	0.5	0.06	0	0	0.25	0.03	10	0.01	1.50	0.18
Total	**4.75**	**0.45**	**5.25**	**0.53**	**2.5**	**0.36**	**1.75**	**0.13**	**1.75**	**0.21**	**20**	**0.03**	**16**	**1.68**

Phy. (No. of Groups)
Fin. (In Lakhs)

Table No. 5.2: ACTION PLAN OF MICRO-ENTERPRISES

Name of MWS	Floor Machine		Oil Spellor		Daliya m. Machine		Maize Seller		Vermi Culture		Repair of Pumpset		Total	
	phy.	Fin.	phy.	Fin.	phy.	Fin.	phy.	Fin.	phy.	Fin.	phy.	Fin.	phy.	Fin.
Chhaprasarib	9	3.63	5	2.5	2	0.76	2	0.8	10	1	10	1	36.00	8.89
Jharkataha	5	2	4	2	2	0.76	3	1.2	8	0.8	11	1.06	0.00	6.62
Husainabad	2	0.8	1	0.4	1	0.38	3	1.2	6	0.61	10	1	20.00	3.19
Udaha	6	2.4	3	1.2	5	1.9	2	0.8	3	0.3	3	0.36	20.00	6.16
Mahadhanpur	3	1.2	1	0.4	2	0.76	2	0.8	2	0.18	1	0.06	9.00	2.6
Total	**25**	**10.03**	**14**	**6.5**	**12**	**4.56**	**12**	**4.8**	**29**	**2.89**	**35**	**3.48**	**85.00**	**27.46**

Phy. (No. of Groups)
Fin. (In Lakhs)

CHAPTER-6

PHASING AND BUDGETING

Table No.6.1: Gram Panchayat wise Financial Breakup

FINANCIAL BREAKUP OF VARIOUS COMPONENT IN TERMS OF % OF IWMP-I, DISTRICT-BALLIA														
											Amount in Lacs			
S. No.	GP NAME	Project Area	Amount	Administrative 10%	EPA 4%	Institution and CB 5%	DPR 1%	Watershed development work 56%	Livelihood for assetless 9%	Production system and Microenterprises 10%	Monitoring 1%	Evaluation 1%	Consolidation 3%	Total 100%
1	KUSHAR	155	18.600	1.860	0.744	0.930	0.186	10.416	1.674	1.860	0.186	0.186	0.558	18.600
2	CHHAPRA SARIB	660	79.200	7.920	3.168	3.960	0.792	44.352	7.128	7.920	0.792	0.792	2.376	79.200
3	JAMGHARVA	169	20.280	2.028	0.811	1.014	0.203	11.357	1.825	2.028	0.203	0.203	0.608	20.280
4	NAINA	35	4.200	0.420	0.168	0.210	0.042	2.352	0.378	0.420	0.042	0.042	0.126	4.200
5	HANDIA KALA	20	2.400	0.240	0.096	0.120	0.024	1.344	0.216	0.240	0.024	0.024	0.072	2.400
6	RAMPUR	5	0.600	0.060	0.024	0.030	0.006	0.336	0.054	0.060	0.006	0.006	0.018	0.600
7	KUSHAR	287	34.440	3.444	1.378	1.722	0.344	19.286	3.100	3.444	0.344	0.344	1.033	34.440
8	KHARIKA	210	25.200	2.520	1.008	1.260	0.252	14.112	2.268	2.520	0.252	0.252	0.756	25.200
9	JHARKATAHA	122	14.640	1.464	0.586	0.732	0.146	8.198	1.318	1.464	0.146	0.146	0.439	14.640
10	CHHAPRA SARIB	220	26.400	2.640	1.056	1.320	0.264	14.784	2.376	2.640	0.264	0.264	0.792	26.400
11	GAYGHAT	95	11.400	1.140	0.456	0.570	0.114	6.384	1.026	1.140	0.114	0.114	0.342	11.400
12	BISHUNPUR	170	20.400	2.040	0.816	1.020	0.204	11.424	1.836	2.040	0.204	0.204	0.612	20.400
13	REOTI	156	18.720	1.872	0.749	0.936	0.187	10.483	1.685	1.872	0.187	0.187	0.562	18.720

14	HUSENABAD	725	87.000	8.700	3.480	4.350	0.870	48.720	7.830	8.700	0.870	0.870	2.610	87.000
15	BISOULI	150	18.000	1.800	0.720	0.900	0.180	10.080	1.620	1.800	0.180	0.180	0.540	18.000
16	MAHADHANPUR	130	15.600	1.560	0.624	0.780	0.156	8.736	1.404	1.560	0.156	0.156	0.468	15.600
17	HANDIA KHURD	130	15.600	1.560	0.624	0.780	0.156	8.736	1.404	1.560	0.156	0.156	0.468	15.600
18	KUSOURI KALAN	135	16.200	1.620	0.648	0.810	0.162	9.072	1.458	1.620	0.162	0.162	0.486	16.200
19	HANDIA KALAN	327	39.240	3.924	1.570	1.962	0.392	21.974	3.532	3.924	0.392	0.392	1.177	39.240
20	NAINA	5	0.600	0.060	0.024	0.030	0.006	0.336	0.054	0.060	0.006	0.006	0.018	0.600
21	SINGHI	167	20.040	2.004	0.802	1.002	0.200	11.222	1.804	2.004	0.200	0.200	0.601	20.040
22	UDAHA	120	14.400	1.440	0.576	0.720	0.144	8.064	1.296	1.440	0.144	0.144	0.432	14.400
23	BINAHA	132	15.840	1.584	0.634	0.792	0.158	8.870	1.426	1.584	0.158	0.158	0.475	15.840
24	PAKAHA	159	19.080	1.908	0.763	0.954	0.191	10.685	1.717	1.908	0.191	0.191	0.572	19.080
25	RAJOULI	325	39.000	3.900	1.560	1.950	0.390	21.840	3.510	3.900	0.390	0.390	1.170	39.000
26	BHOPATPUR	3	0.360	0.036	0.014	0.018	0.004	0.202	0.032	0.036	0.004	0.004	0.011	0.360
27	NAINA	298	35.760	3.576	1.430	1.788	0.358	20.026	3.218	3.576	0.358	0.358	1.073	35.760
28	TRIKALPUR	93	11.160	1.116	0.446	0.558	0.112	6.250	1.004	1.116	0.112	0.112	0.335	11.160
29	CHHAPIA	175	21.000	2.100	0.840	1.050	0.210	11.760	1.890	2.100	0.210	0.210	0.630	21.000
	Total	**5378**	**645.360**	**64.536**	**25.814**	**32.268**	**6.454**	**361.402**	**58.082**	**64.536**	**6.454**	**6.454**	**19.361**	**645.360**

Table No.6.2: Gram Panchayat wise Administrative Component Breakup

YEARWISE FINANCIAL BREAK UP OF ADMINISTRATIVE COMPONENT OF IWMP-I, DISTRICT-BALLIA								
								Amount in Lacs
S. No.	GP Name	Project Area	Amount	Administrative 10% of the Project Cost				
				2009-10	2010-11	2011-12	2012-13	Total
1	KUSHAR	155	1.860	-	0.372	1.004	0.484	1.860
2	CHHAPRA SARIB	660	7.920	-	1.584	4.277	2.059	7.920
3	JAMGHARVA	169	2.028	-	0.406	1.095	0.527	2.028
4	NAINA	35	0.420	-	0.084	0.227	0.109	0.420
5	HANDIA KALA	20	0.240	-	0.048	0.130	0.062	0.240
6	RAMPUR	5	0.060	-	0.012	0.032	0.016	0.060
7	KUSHAR	287	3.444	-	0.689	1.860	0.895	3.444
8	KHARIKA	210	2.520	-	0.504	1.361	0.655	2.520
9	JHARKATAHA	122	1.464	-	0.293	0.791	0.381	1.464
10	CHHAPRA SARIB	220	2.640	-	0.528	1.426	0.686	2.640
11	GAYGHAT	95	1.140	-	0.228	0.616	0.296	1.140
12	BISHUNPUR	170	2.040	-	0.408	1.102	0.530	2.040
13	REOTI	156	1.872	-	0.374	1.011	0.487	1.872
14	HUSENABAD	725	8.700	-	1.740	4.698	2.262	8.700
15	BISOULI	150	1.800	-	0.360	0.972	0.468	1.800
16	MAHADHANPUR	130	1.560	-	0.312	0.842	0.406	1.560
17	HANDIA KHURD	130	1.560	-	0.312	0.842	0.406	1.560
18	KUSOURI KALAN	135	1.620	-	0.324	0.875	0.421	1.620
19	HANDIA KALAN	327	3.924	-	0.785	2.119	1.020	3.924
20	NAINA	5	0.060	-	0.012	0.032	0.016	0.060

21	SINGHI	167	2.004	-	0.401	1.082	0.521	2.004
22	UDAHA	120	1.440	-	0.288	0.778	0.374	1.440
23	BINAHA	132	1.584	-	0.317	0.855	0.412	1.584
24	PAKAHA	159	1.908	-	0.382	1.030	0.496	1.908
25	RAJOULI	325	3.900	-	0.780	2.106	1.014	3.900
26	BHOPATPUR	3	0.036	-	0.007	0.019	0.009	0.036
27	NAINA	298	3.576	-	0.715	1.931	0.930	3.576
28	TRIKALPUR	93	1.116	-	0.223	0.603	0.290	1.116
29	CHHAPIA	175	2.100	-	0.420	1.134	0.546	2.100
	TOTAL	**5378**	**64.536**	**-**	**12.907**	**34.849**	**16.779**	**64.536**

Table No6.3: Gram Panchayat wise Financial Breakup for Institutional and Capacity Building

YEARWISE FINANCIAL BREAK UP OF INST. & CAP. BULDG. PROGRAMME OF IWMP-I, DISTRICT-BALLIA							
							Amount in Lacs
S. No.	GP Name	Project Area	Amount	Institutional & Capacity Building 5% of the Total Project Cost			
				2009-10	2010-11	2011-12	212-13
1	KUSHAR	155	0.930	-	0.558	0.279	0.093
2	CHHAPRA SARIB	660	3.960	-	2.376	1.188	0.396
3	JAMGHARVA	169	1.014	-	0.608	0.304	0.101
4	NAINA	35	0.210	-	0.126	0.063	0.021
5	HANDIA KALA	20	0.120	-	0.072	0.036	0.012
6	RAMPUR	5	0.030	-	0.018	0.009	0.003
7	KUSHAR	287	1.722	-	1.033	0.517	0.172
8	KHARIKA	210	1.260	-	0.756	0.378	0.126
9	JHARKATAHA	122	0.732	-	0.439	0.220	0.073
10	CHHAPRA SARIB	220	1.320	-	0.792	0.396	0.132
11	GAYGHAT	95	0.570	-	0.342	0.171	0.057
12	BISHUNPUR	170	1.020	-	0.612	0.306	0.102
13	REOTI	156	0.936	-	0.562	0.281	0.094
14	HUSENABAD	725	4.350	-	2.610	1.305	0.435
15	BISOULI	150	0.900	-	0.540	0.270	0.090
16	MAHADHANPUR	130	0.780	-	0.468	0.234	0.078
17	HANDIA KHURD	130	0.780	-	0.468	0.234	0.078

18	KUSOURI KALAN	135	0.810	-	0.486	0.243	0.081
19	HANDIA KALAN	327	1.962	-	1.177	0.589	0.196
20	NAINA	5	0.030	-	0.018	0.009	0.003
21	SINGHI	167	1.002	-	0.601	0.301	0.100
22	UDAHA	120	0.720	-	0.432	0.216	0.072
23	BINAHA	132	0.792	-	0.475	0.238	0.079
24	PAKAHA	159	0.954	-	0.572	0.286	0.095
25	RAJOULI	325	1.950	-	1.170	0.585	0.195
26	BHOPATPUR	3	0.018	-	0.011	0.005	0.002
27	NAINA	298	1.788	-	1.073	0.536	0.179
28	TRIKALPUR	93	0.558	-	0.335	0.167	0.056
29	CHHAPIA	175	1.050	-	0.630	0.315	0.105
	TOTAL	**5378**	**32.268**	**-**	**19.361**	**9.680**	**3.227**

Table No.6.4: Gram Panchayat wise Physical And Financial Breakup of Work Component

YEARWISE PHYSICAL AND FINANCIAL BREAK UP OF WORK COMPONENT OF IWMP-I, DISTRICT-BALLIA													
Watershed Development Works 56% of Project Cost												Amount in Lacs Phy. in ha.	
S. No.	GP Name	Project Area	Amount	2009-10		2010-11		2011-12		2012-13		TOTAL	
				Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy (ha,)	Fin.
1	KUSHAR	155	10.416	-	-	31	1.395	77.5	6.017	46.5	3.004	155	10.416
2	CHHAPRA SARIB	660	44.352	-	-	132	5.940	330	25.621	198	12.791	660	44.352
3	JAMGHARVA	169	11.357	-	-	33.8	1.521	84.5	6.561	50.7	3.275	169	11.357
4	NAINA	35	2.352	-	-	7	0.315	17.5	1.359	10.5	0.678	35	2.352
5	HANDIA KALA	20	1.344	-	-	4	0.180	10	0.776	6	0.388	20	1.344
6	RAMPUR	5	0.336	-	-	1	0.045	2.5	0.194	1.5	0.097	5	0.336
7	KUSHAR	287	19.286	-	-	57.4	2.583	143.5	11.141	86.1	5.562	287	19.286
8	KHARIKA	210	14.112	-	-	42	1.890	105	8.152	63	4.070	210	14.112
9	JHARKATAHA	122	8.198	-	-	24.4	1.098	61	4.736	36.6	2.364	122	8.198
10	CHHAPRA SARIB	220	14.784	-	-	44	1.980	110	8.540	66	4.264	220	14.784
11	GAYGHAT	95	6.384	-	-	19	0.855	47.5	3.688	28.5	1.841	95	6.384
12	BISHUNPUR	170	11.424	-	-	34	1.530	85	6.599	51	3.295	170	11.424
13	REOTI	156	10.483	-	-	31.2	1.404	78	6.056	46.8	3.023	156	10.483
14	HUSENABAD	725	48.720	-	-	145	6.525	362.5	28.145	217.5	14.051	725	48.720

15	BISOULI	150	10.080	-	-	30	1.350	75	5.823	45	2.907	150	10.080
16	MAHADHANPUR	130	8.736	-	-	26	1.170	65	5.047	39	2.519	130	8.736
17	HANDIA KHURD	130	8.736	-	-	26	1.170	65	5.047	39	2.519	130	8.736
18	KUSOURI KALAN	135	9.072	-	-	27	1.215	67.5	5.241	40.5	2.616	135	9.072
19	HANDIA KALAN	327	21.974	-	-	65.4	2.943	163.5	12.694	98.1	6.337	327	21.974
20	NAINA	5	0.336	-	-	1	0.045	2.5	0.194	1.5	0.097	5	0.336
21	SINGHI	167	11.222	-	-	33.4	1.503	83.5	6.483	50.1	3.236	167	11.222
22	UDAHA	120	8.064	-	-	24	1.080	60	4.658	36	2.326	120	8.064
23	BINAHA	132	8.870	-	-	26.4	1.188	66	5.124	39.6	2.558	132	8.870
24	PAKAHA	159	10.685	-	-	31.8	1.431	79.5	6.172	47.7	3.081	159	10.685
25	RAJOULI	325	21.840	-	-	65	2.925	162.5	12.617	97.5	6.299	325	21.840
26	BHOPATPUR	3	0.202	-	-	0.6	0.027	1.5	0.116	0.9	0.058	3	0.202
27	NAINA	298	20.026	-	-	59.6	2.682	149	11.568	89.4	5.775	298	20.026
28	TRIKALPUR	93	6.250	-	-	18.6	0.837	46.5	3.610	27.9	1.802	93	6.250
29	CHHAPIA	175	11.760	-	-	35	1.575	87.5	6.794	52.5	3.392	175	11.760
	TOTAL	**5378**	**361.402**	**-**	**-**	**1075.6**	**48.402**	**2689**	**208.774**	**1613.4**	**104.226**	**5378**	**361.402**

Table No6.5: Gram Panchayat wise Financial Break up of Livelihood Activities

YEARWISE FINANCIAL BREAK UP OF LIVELIHOOD ACTIVITIES IWMP-I, DISTRICT-BALLIA								
							Amount in Lacs	
S. No.	GP Name	Project Area	Amount	Livelihood 9% of the Project Cost				
				2009-10	2010-11	2011-12	2012-13	TOTAL
1	KUSHAR	155	1.674	-	0.372	0.930	0.372	1.674
2	CHHAPRA SARIB	660	7.128	-	1.584	3.960	1.584	7.128
3	JAMGHARVA	169	1.825	-	0.406	1.014	0.406	1.825
4	NAINA	35	0.378	-	0.084	0.210	0.084	0.378
5	HANDIA KALA	20	0.216	-	0.048	0.120	0.048	0.216
6	RAMPUR	5	0.054	-	0.012	0.030	0.012	0.054
7	KUSHAR	287	3.100	-	0.689	1.722	0.689	3.100
8	KHARIKA	210	2.268	-	0.504	1.260	0.504	2.268
9	JHARKATAHA	122	1.318	-	0.293	0.732	0.293	1.318
10	CHHAPRA SARIB	220	2.376	-	0.528	1.320	0.528	2.376
11	GAYGHAT	95	1.026	-	0.228	0.570	0.228	1.026
12	BISHUNPUR	170	1.836	-	0.408	1.020	0.408	1.836
13	REOTI	156	1.685	-	0.374	0.936	0.374	1.685
14	HUSENABAD	725	7.830	-	1.740	4.350	1.740	7.830
15	BISOULI	150	1.620	-	0.360	0.900	0.360	1.620
16	MAHADHANPUR	130	1.404	-	0.312	0.780	0.312	1.404
17	HANDIA KHURD	130	1.404	-	0.312	0.780	0.312	1.404
18	KUSOURI KALAN	135	1.458	-	0.324	0.810	0.324	1.458

19	HANDIA KALAN	327	3.532	-	0.785	1.962	0.785	3.532
20	NAINA	5	0.054	-	0.012	0.030	0.012	0.054
21	SINGHI	167	1.804	-	0.401	1.002	0.401	1.804
22	UDAHA	120	1.296	-	0.288	0.720	0.288	1.296
23	BINAHA	132	1.426	-	0.317	0.792	0.317	1.426
24	PAKAHA	159	1.717	-	0.382	0.954	0.382	1.717
25	RAJOULI	325	3.510	-	0.780	1.950	0.780	3.510
26	BHOPATPUR	3	0.032	-	0.007	0.018	0.007	0.032
27	NAINA	298	3.218	-	0.715	1.788	0.715	3.218
28	TRIKALPUR	93	1.004	-	0.223	0.558	0.223	1.004
29	CHHAPIA	175	1.890	-	0.420	1.050	0.420	1.890
	TOTAL	**5378**	**58.082**	**-**	**12.907**	**32.268**	**12.907**	**58.082**

Table No.6.6: Gram Panchayat wise Financial Break up of Production & Micro Enterprises

YEARWISE FINANCIAL BREAK UP OF PRODUCTION & MICRO ENTERPRISES OF IWMP-I, DISTRICT-BALLIA								
								Amount in Lacs
S. No.	GP Name	Project Area	Amount	Production System & Mocro-enterprises 10% of the Project Cost				
				2009-10	2010-11	2011-12	2012-13	Total
1	KUSHAR	155	1.860	-	0.372	0.930	0.558	1.860
2	CHHAPRA SARIB	660	7.920	-	1.584	3.960	2.376	7.920
3	JAMGHARVA	169	2.028	-	0.406	1.014	0.608	2.028
4	NAINA	35	0.420	-	0.084	0.210	0.126	0.420
5	HANDIA KALA	20	0.240	-	0.048	0.120	0.072	0.240
6	RAMPUR	5	0.060	-	0.012	0.030	0.018	0.060
7	KUSHAR	287	3.444	-	0.689	1.722	1.033	3.444
8	KHARIKA	210	2.520	-	0.504	1.260	0.756	2.520
9	JHARKATAHA	122	1.464	-	0.293	0.732	0.439	1.464
10	CHHAPRA SARIB	220	2.640	-	0.528	1.320	0.792	2.640
11	GAYGHAT	95	1.140	-	0.228	0.570	0.342	1.140
12	BISHUNPUR	170	2.040	-	0.408	1.020	0.612	2.040
13	REOTI	156	1.872	-	0.374	0.936	0.562	1.872
14	HUSENABAD	725	8.700	-	1.740	4.350	2.610	8.700

15	BISOULI	150	1.800	-	0.360	0.900	0.540	1.800
16	MAHADHANPUR	130	1.560	-	0.312	0.780	0.468	1.560
17	HANDIA KHURD	130	1.560	-	0.312	0.780	0.468	1.560
18	KUSOURI KALAN	135	1.620	-	0.324	0.810	0.486	1.620
19	HANDIA KALAN	327	3.924	-	0.785	1.962	1.177	3.924
20	NAINA	5	0.060	-	0.012	0.030	0.018	0.060
21	SINGHI	167	2.004	-	0.401	1.002	0.601	2.004
22	UDAHA	120	1.440	-	0.288	0.720	0.432	1.440
23	BINAHA	132	1.584	-	0.317	0.792	0.475	1.584
24	PAKAHA	159	1.908	-	0.382	0.954	0.572	1.908
25	RAJOULI	325	3.900	-	0.780	1.950	1.170	3.900
26	BHOPATPUR	3	0.036	-	0.007	0.018	0.011	0.036
27	NAINA	298	3.576	-	0.715	1.788	1.073	3.576
28	TRIKALPUR	93	1.116	-	0.223	0.558	0.335	1.116
29	CHHAPIA	175	2.100	-	0.420	1.050	0.630	2.100
	TOTAL	**5378**	**64.536**	**-**	**12.907**	**32.268**	**19.361**	**64.536**

Table No.6.7: Details of Convergence of IWMP with other Schemes

S.No.	Name of the MW	Names of Departments with Schemes converging with IWMP*	Fund made available to IWMP project due to convergence (Rs. In lakh)	Was this fund included in Rs. 12,000/15,000 Per ha		Name of activity/task/structure undertaken with converged funds	Reference no. of activity/task/structure in DPR	Level at which decision for convergence was taken $
				Yes	No	(a) Structures (b) Livelihoods (c) Production System		
1	2	3	4	5	6	7	8	9
1	HUSENABAD 2B1A2b1d	MNREGS	13.00		No	a	-	DRDA
		DA	1.40		No	b, c	-	Dist. Level
		DHO	0.30		No	b, c	-	Dist. Level
		DF	0.40		NO	b, c	-	Dist. Level
		F	0.45		No	b, c	-	Dist. Level
		Total	**15.55**		No			
2	MAHADHAN PUR 2B1A2b2b	MNREGS	23.00		No	a	-	DRDA
		DA	1.50		NO	b, c	-	Dist. Level
		DHO	0.30		No	b, c	-	Dist. Level
		DF	0.40		No	b, c	-	Dist. Level
		F	0.30		No	b, c	-	Dist. Level
		Total	**25.50**		No		-	
3	UDAHA 2B1A2b1c	MNREGS	11.00		No	a	-	DRDA
		DA	1.70		No	b, c	-	Dist. Level
		DHO	0.50		NO	b, c	-	Dist. Level
		DF	0.50		No	b, c	-	Dist. Level
		F	0.30		No	b, c	-	Dist. Level
		Total	**19.00**		No		-	
4	CHHAPRA SARIB 2B1A2b2a	MNREGS	13.00		No	a	-	DRDA
		DA	1.40		No	b, c	-	Dist. Level
		DHO	0.30		No	b, c	-	Dist. Level
		DF	0.40		NO	b, c	-	Dist. Level
		F	0.45		No	b, c	-	Dist. Level
		Total	**15.55**		No		-	
5	JHARKATAHA 2B1A2b1b	MNREGS	8.00		No	a	-	DRDA
		DA	0.50		No	b, c	-	Dist. Level
		DHO	0.20		No	b, c	-	Dist. Level
		DF	0.20		No	b, c	-	Dist. Level
		F	0.20		No	b, c	-	Dist. Level
		Total	**9.10**		No		-	
		Grand Total	**84.70**				-	

Table No.6.8: Summary of Gram Panchayat wise Action Plan of various components is included in individual Project file in details

Chhaprasariv 2B1A2b2a

S. No.	Name of Activities	NAME OF GRAM PANCHAYAT / Unit No./ Length/ area ha	Kushar		Chhapra Sarib		Jamgarva		Naina		Handia Kala		Rampur		Total	
			Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost
	1. Watershed Development Work															
	a. Land Development															
1	**Afforestation**	ha	1	0.24	1	0.24	2	0.48	0	0	2	0.48	0	0	6	1.44
2	**Agriculture**		-	- -	-	- -	- -	- -	- -	- ---	--- -	- -	- -	- -		
3	**Pasture**		-	- -	-	- -	- -	- -	- -	- ---	--- -	- -	- -	- -		
4	**Harticulture**		-	- -	-	- -	- -	- -	- -	- ---	--- -	- -	- -	- -		
	Total	**Ha.**	**1**	**0.24**	**1**	**0.24**	**2**	**0.48**	**0**	**0**	**2**	**0.48**	**0**	**0**	**6**	**1.44**
	b. Soil Moisture Conservation		-	- -	-	- -	- -	- -	- -	- ---	--- -	- -	- -	- -		
			-	- -	-	- -	- -	- -	- -	- ---	--- -	- -	- -	- -		
1	**Marginal Bund**	ha	56.4	4.2	221.7	15.9	48.5	4.3	11.2	0.98	4.2	0.51	1.1	0.09	343.1	26.98
2	**Contour bunding**	ha														
3	**Peripheral Bund**	ha	47.9	3.8	225.4	14.4	56.3	3.9	9.3	0.53	6.4	0.24	2.3	0.14	347.6	23.01
4	**Bench terracing**	ha														
5	**Others / Field Bunding**	ha	49.2	2.31	211.4	12.92	61.7	2.99	14	0.87	6.9	0.42	1.6	0.1	344.8	19.61
	Total	Ha.	**153.5**	**10.31**	**658.5**	**44.22**	**166.5**	**11.19**	**34.5**	**2.38**	**17.5**	**1.17**	**5**	**33**	**1035.5**	**69.58**
	c. Water Harvesting Structure															
1	**Form Ponds**	ha	0.5	4	0.5	4	0.5	4	0.5	4	0.5	4	0	0	2.5	20
2	**Check dams**		-	- -	-	- -	- -	- -	- -	- ---	--- -	- -	- -	- -		
3	**Nallah bunds**		-	- -	-	- -	- -	- -	- -	- ---	--- -	- -	- -	- -		
4	**Percolation tanks**		-	- -	-	- -	- -	- -	- -	- ---	--- -	- -	- -	- -		

5	**Ground water recharge structures**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -		
	Total	Ha.	**0.5**	**4**	**0.5**	**4**	**0.5**	**4**	**0.5**	**4**	**0.5**	**4**	**0**	**0**	**2.5**	**20**
	c.Veg. & Engg. Structures		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -		
1	**Earthen checks**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -		
2	**Brushwood checks**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -		
3	**Gully plugs**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -		
4	**Loose boulders**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -		
5	**Gabion structures**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -		
6	**Others**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -		
	Total		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -		
	Grand Total WDW		**155**	**10.41**	**660**	**44.35**	**169**	**11.36**	**35**	**2.35**	**20**	**1.34**	**5**	**0.37**	**1044**	**70.18**
	Livilihood			-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -		
2	**Bee Keeping**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -		
3	**Poultry**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -		
4	**Kumhar**	No.	1	0.11	0	0	0	0	0	0	0	0	0	0	1	0.11
5	**Bio-Fuel Plantation**		-	-	-	-	-	-	-	-	-	-	-	-		
6	**General Store**	No.	1	0.2	0	0	1	0.25	1	0.25	1	0.25	1	0.25	5	1.2
A	**Goatry**	No.	1	0.25	4	2	1	0.25	2	0.5	2	0.5	2	0.5	12	4
B	**Piggries**	No.	-	-	-	-	-	-	-	-	-	-	-	-		
C	**Candle making**	No.	1	0.25	0	0	0	0	1	0.25	1	0.25	1	0.25	4	1
D	**Sweet Packs**	No.	-	-	-	-	-	-	-	-	-	-	-	-	0	0
E	**Dona Pattal**	No.	-	-	-	-	-	-	-	-	-	-	-	-	0	0
F	**Sewing**	No.	1	0.25	2	0.5	0	0	1	0.25	1	0.25	1	0.25	6	1.5
G	**Tea stall**	No.	-	-	-	-	-	-	-	-	-	-	-	-	0	0
h	**Painting wark**	No.	-	-	-	-	-	-	-	-	-	-	-	-	0	0
i	**Carpentry**	No.	0	0	0	0	2	0.24	1	0.12	1	0.12	1	0.12	5	0.6
j	**Book seller**															
k	**Welding(Gas/Electric)**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	0	0
	Total		**5**	**1.06**	**6**	**2.5**	**4**	**0.74**	**6**	**1.37**	**6**	**1.37**	**6**	**1.37**	**33**	**8.41**
	Production System & Micro - Enterprices				-	- -	-	- -	- -	- -	- -	- --	-- -	- -	0	0

	Production system		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	0	0
	a.Crop Demostration	Nos.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	0	0
1	**Sericulture**	Nos.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	0	0
2	**Bee Keeping**	Nos.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	0	0
3	**Paultry**	Nos.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	0	0
4	**Fishries**	Nos.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	0	0
5	**Bio-Fuel Plantation**	Nos.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	0	0
6	**Others**	Nos.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	0	0
7	**Goetry**	Nos.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	0	0
8	**Piggries**	Nos.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	0	0
9	**Bufallow rearing**	Nos.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	0	0
10	**Harticulture**	Nos.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	0	0
11	**Agro-Harticuture**	Nos.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	0	0
12	**Agro-Forestry**	Nos.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	0	0
13	**Vermi Culture**	Nos.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	0	0
14	**Marigold Cultivation**	Nos.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	0	0
15	**Potato Cultivation**	Ha	2	0.26	2	0.26	2	0.26	2	0.26	2	0.26	2	0.3	12	1.6
16	**Green Manuring**															
	Total	Ha	**2**	**0.26**	**2**	**0.26**	**2**	**0.26**	**2**	**0.26**	**2**	**0.26**	**2**	**0.3**	**12**	**1.6**
	b. Micro-Enterprises															
1	**Oil Speller**	No.	2	1	1	0.5	1	0.5	1	0.5	0	0	0	0	5	2.5
2	**Dalia Making Machine**	No.	0	0	1	0.38	0	0	0	0	0	0	1	0.38	2	0.76
3	**Vermi Culture**	No.	2	0.2	1	0.1	2	0.2	2	0.2	2	0.2	1	0.1	10	1
4	**Repair of Pumpset Kit**	No.	1	0.1	2	0.2	1	0.1	2	0.2	2	0.2	2	0.2	10	1
5	**Mini floor Machine**	No.	2	0.8	1	0.4	0	0	1	0.4	3	1.2	2	0.8	9	3.6
6	**Maize Seller**	No.	0	0	1	0.4	0	0	1	0.4	0	0	0	0	2	0.8

7	**Envelop**	Nos.	-	-	-	-	-	-	-	-	-	-	-			
8	**Black Smithy**	Nos.	-	-	-	-	-	-	-	-	-	-	-	-		
9	**Mobile Repair**	Nos.	-	-	-	-	-	-	-	-	-	-	-	-		
10	**Bag making**	Nos.	-	-	-	-	-	-	-	-	-	-	-	-		
	Total		**7**	**2.1**	**7**	**1.98**	**4**	**0.8**	**7**	**1.7**	**7**	**1.6**	**6**	**1.48**	**38**	**9.66**

Jharkataha 2B1A2b1b

							Rs. Lacs											
S.No.	**Name of Activities**	**No./ Length/ area**	**Kushar**		**kharika**		**Jharkataha**		**Chhapra Sarib**		**Gayghat**		**Bisunpur**		**Reoti (N.P)**		**Total**	
			Quat.	**Cost**	**Quat.**	**Cost**	**Quat.**	**Cost**	**Quat.**	**Cost**	**Quat.**	**Cost**	**Quat.**	**Cost**	**Quat.**	**Cost**	**Quat.**	**Cost.**

		ha															
	1. Watershed Development Work																
	a. Land Development																
1	**Afforestation**	**ha**	1	0.24	0	0	2	0.48	1	0.24	1	0.24	1	0.24	0	0	6	1.44
2	**Agriculture**		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
3	**Pasture**		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4	**Harticulture**		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Total	**Ha.**	**1**	**0.24**	**0**	**0**	**2**	**0.48**	**0**	**0**	**1**	**0.24**	**1**	**0.24**	**0**	**0**	5	1.2
	b. Soil Moisture Conservation																	
1	**Marginal Bund**	ha	77.3	8.9	67.4	5.2	41.4	3.1	82.8	6.2	41.1	2.2	66.3	4.2	62.3	4.5	438.6	34.3
2	**Contour bunding**	ha	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
3	**Peripheral Bund**	ha	110.7	6.9	90.4	5.11	33.4	2.3	78.6	5.3	31.2	3.4	56.16	3.4	52.5	3.4	452.96	29.81
4	**Bench terracing**	ha	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
5	**Others / Field Bunding**	ha	97.5	3.38	52.2	3.8	44.7	2.63	57.1	3.18	21.2	0.68	46.04	3.72	41.2	2.58	359.94	19.97
	Total		**285.5**	**19.18**	**210**	**14.11**	**119.5**	**8.03**	**218.5**	**14.68**	**93.5**	**6.28**	**168.5**	**11.32**	**156**	**10.48**	1251.5	84.10
	c. Water Harvesting Structure																	
1	**Form Ponds**	ha	0.5	4	-	-	0.5	4	0.5	4	0.5	4	0.5	4	-	-	2.5	20
2	**Check dams**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-		
3	**Nallah bunds**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-		
4	**Percolation tanks**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-		
5	**Ground water recharge structures**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-		
	Total		**0.5**	**4**	**-**	**-**	**0.5**	**4**	**0.5**	**4**	**0.5**	**4**	**0.5**	**4**	**-**	**-**	**2.5**	**20**

	c.Veg. & Engg. Structures		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-		
1	**Earthen checks**	Ha.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-		
2	**Brushwood checks**	Ha.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-		
3	**Gully plugs**	Ha.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-		
4	**Loose boulders**	Ha.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-		
5	**Gabion structures**	Ha.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-		
6	**Others**	Ha.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-		
	Total																	
Grand Total WDW			**287**	**19.29**	**210**	**14.11**	**122**	**8.20**	**220**	**14.78**	**95**	**6.38**	**170**	**11.42**	**156**	**10.48**	**1260**	**84.67**
Livilihood				-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -		
2	**Bee Keeping**	No.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-		
3	**Poultry**	No.	1	0.25	1	0.25	0	0	1	0.25	1	0.25	0	0	1	0.25	5	1.25
4	**Kumhar**	No.	1	0.1	1	0.1	0	0	0	0	1	0.1	1	0.1	1	0.1	5	0.5
5	**Bio-Fuel Plantation**	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
6	**General Store**	No.	0	0	1	0.2	0	0	0	0	1	0.2	0	0	0	0	2	0.4
a	**Goatry**	No.	1	0.25	1	0.25	2	0.5	2	0.5	1	0.25	1	0.25	1	0.25	9	2.25
b	**Dairy**	No.	0	0	1	0.25	1	0.25	0	0	0	0	1	0.25	0	0	3	0.75
c	**Candle making**	No.	2	0.5	0	0	3	0.75	2	0.5	2	0.5	2	0.5	2	0.5	13	3.25
d	**Sweet Packs**	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
e	**Dona Pattal**	No.	0	0	0	0	0	0	0	0	1	0.25	0	0	1	0.25	2	0.5
f	**Sewing**	No.	0	0	1	0.2	1	0.2	1	0.2	0	0	0	0	0	0	3	0.6
g	**Tea stall**	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
h	**Painting wark**	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
i	**Carpentry**	No.	1	0.12	-	-	1	0.12	-	-	-	-	1	0.12	-	-	3	0.36
j	**Book seller**	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
k	**Welding(Gas/Electric)**	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

	Total		**6**	**1.22**	**6**	**1.25**	**8**	**1.82**	**6**	**1.45**	**7**	**1.55**	**6**	**1.22**	**6**	**1.35**	**45**	**9.86**
Production System & Micro - Enterprices				-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -		
	Production system	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-		
	a.Crop Demostration		-	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -		
1	**Sericulture**	No.	-	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -		
2	**Bee Keeping**	No.	-	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -		
3	**Paultry**	No.	-	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -		
4	**Fishries**	No.	-	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -		
5	**Bio-Fuel Plantation**	No.	-	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -		
6	**Others**	No.	-	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -		
7	**Goetry**	No.	-	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -		
8	**Piggries**	No.	-	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -		
9	**Bufallow rearing**	No.	-	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -		
10	**Harticulture**	No.	-	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -		
11	**Agro-Harticuture**	No.	-	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -		
12	**Agro-Forestry**	No.	-	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -		
13	**Vermi Culture**	No.	-	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -		
14	**Marigold Cultivation**	No.	-	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -		
15	**Potato Cultivation**	Ha	2	0.2	0	0	0	0	1	0.105	0	0	0	0	0	0	3	0.305
16	**Wheat Cultivation**	Ha	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	1	0.1	7	0.7
	Total		**3**	**0.3**	**1**	**0.1**	**1**	**0.1**	**2**	**0.205**	**1**	**0.1**	**1**	**0.1**	**1**	**0.1**	**7**	**1.005**
	b. Micro-Enterprises																	
1	**Oil Speller**	No.	1	0.4	1	0.4	0	0	2	0.8	0	0	0	0	0	0	4	1.6
2	**Dalia Making Machine**	No.	0	0	1	0.38	0	0	1	0.38	0	0	0	0	0	0	2	0.76
3	**Vermi Culture**	No.	1	0.1	1	0.1	2	0.2	1	0.1	1	0.1	1	0.1	1	0.1	8	0.8
4	**Repair of Pumpset Kit**	No.	2	0.2	1	0.1	1	0.1	2	0.2	1	0.1	1	0.06	3	0.3	11	1.06
5	**Mini floor Machine**	No.	1	0.5	0	0	1	0.5	1	0.5	1	0.5	0	0	1	0.5	5	2.5

6	**Maize Seller**	No.	0	0	1	0.4	0	0	0	0	1	0.4	0	0	1	0.4	3	1.2
7	**Envelop**	No.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-		
8	**Black Smithy**	No.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-		
9	**Mobile Repair**	No.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-		
10	**Bag making**	No.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-		
	Total		**5**	**1.2**	**5**	**1.38**	**4**	**0.8**	**7**	**1.98**	**4**	**1.1**	**2**	**0.16**	**6**	**1.3**	**33**	**7.92**

Husainabad 2B1A2b1d

S.No.	Name of Activities	Unit No./ Length/ area ha	Name of GP Husenabad		Name of GP Bisouli		Total	
			Quat.	Cost	Quat.	Cost	Quat.	Cost
	1. Watershed Development Work							
	a. Land Development							
1	**Afforestation**	**ha**	2	0.48	1	0.24	**3**	**0.72**
2	**Agriculture**		-	-	-	-		
3	**Pasture**		-	-	-	-		
4	**Harticulture**		-	-	-	-		

	Total	**Ha.**	**2**	**0.48**	**1**	**0.24**	**3**	**0.72**
	b. Soil Moisture Conservation							
1	**Marginal Bund**	ha	240.6	15.41	55.4	2.4		
2	**Contour bunding**	ha						
3	**Peripheral Bund**	ha	272.3	13.72	65.1	1.4		
4	**Bench terracing**	ha	0	0	0	0	**0**	**0**
5	**Others / Field Bunding**	ha	209.1	11.11	28	1.8		
	Total	Ha.	**468**	**23.75**	**263**	**14.6**	**731**	**38.35**
	c. Water Harvesting Structure		722	40.24	148.5	5.84	870.5	46.08
1	**Form Ponds**	ha	1	8	0.5	4	1.5	12
2	**Check dams**	ha	0	0	0	0	0	0
3	**Nallah bunds**	ha	0	0	0	0	0	0
4	**Percolation tanks**	ha	0	0	0	0	0	0
5	**Ground water recharge structures**	ha					0	0
	Total		**1**	**8**	**0.5**	**4**	**1.5**	**12**
	c.Veg. & Engg. Structures							
1	**Earthen checks**	Ha						
2	**Brushwood checks**	Ha						
3	**Gully plugs**	Ha						
4	**Loose boulders**	Ha						
5	**Gabion structures**	Ha						
6	**Others**	Ha						
	Total							
Grand Total WDW		**ha**	**725**	**48.72**	**150**	**10.08**	**875**	**58.80**
Livilihood								
2	**Bee Keeping**							
3	**Poultry**	No.	1	0.2	1	0.2	2	1.2
4	**Kumhar**	No.	0	0	1	0.12	1	1.12
5	**Bio-Fuel Plantation**		0	0	0	0	0	0
6	**General Store**	No.	1	0.2	1	0.2	2	1.2
a	**Goatry**	No.	4	0.4	2	0.2	6	2.2
b	**Dairy**	No.	1	0.25	1	0.25	2	1.25
c	**Candle making**	No.	2	0.5	2	0.5	4	2.5
d	**Sweet Packs**	No.	0	0	0	0	0	0

e	**Dona Pattal**	No.	1	0.25	0	0	1	0
f	**Sewing**	No.	2	0.4	1	0.2	3	1.2
g	**Tea stall**	No.	0	0	0	0	0	0
h	**Painting wark**	No.	0	0	0	0	0	0
i	**Carpentry**	No.	1	0.12	2	0.24	3	2.24
j	**Book seller**	No.	0	0	0	0	0	0
k	**Welding(Gas/Electric)**	No.	0	0	0	0	0	0
	Total		**13**	**2.32**	**11**	**1.91**	**24**	**12.91**
	Production System & Micro - Enterprices							
	Production system							
	a.Crop Demostration							
1	**Sericulture**		0	0	0	0	0	0
2	**Bee Keeping**		0	0	0	0	0	0
3	**Paultry**		0	0	0	0	0	0
4	**Fishries**		0	0	0	0	0	0
5	**Bio-Fuel Plantation**		0	0	0	0	0	0
6	**Others**		0	0	0	0	0	0
7	**Goetry**		0	0	0	0	0	0
8	**Piggries**		0	0	0	0	0	0
9	**Bufallow rearing**		0	0	0	0	0	0
10	**Harticulture**		0	0	0	0	0	0
11	**Agro-Harticuture**		0	0	0	0	0	0
12	**Maize Cultivation**	Ha	0.5	0.06	0.5	0.06	1	0.12
13	**Vermi Culture**		0	0	0	0	0	0
14	**Marigold Cultivation**		0	0	0	0	0	0
15	**Potato Cultivation**	Ha	0.5	0.06	0.5	0.06	1	0.12
16	**Wheat Cultivation**	Ha	1	0.12	1	0.11	2	0.23
	Total		**2**	**0.24**	**2**	**0.23**	**4**	**0.47**
	b. Micro-Enterprises							
1	**Oil Speller**	No.	1	0.4	0	0	1	0.4
2	**Dalia Making Machine**	No.	1	0.38	0	0	1	0.38
3	**Vermi Culture**	No.	4	0.4	2	0.21	6	0.61
4	**Repair of Pumpset Kit**	No.	6	0.6	4	0.4	10	1
5	**Mini floor Machine**	No.	1	0.4	1	0.4	2	0.8

6	**Maize Seller**	No.	2	0.8	1	0.4	3	1.2
7	**Envelop**	No.	0	0	0	0	0	0
8	**Black Smithy**	No.	0	0	0	0	0	0
9	**Mobile Repair**	No.	0	0	0	0	0	0
10	**Bag making**	No.	0	0	0	0	0	0
	Total		**15**	**2.98**	**8**	**1.41**	**23**	**4.39**

Udaha 2B1A2b1c

S.No.	Name of Activities	Unit No./ Length/ area ha	Udaha		Binha		Rs. Lacs Pakha		Rajaouli		Bhopatpur		Naina		Trikalpur		Chhapiya		Total	
			Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost
	1. Watershed Development Work																			
	a. Land Development																			
1	**Afforestation**	**ha**	1	0.24	1	0.24	1	0.24	1	0.24	0	0	2	0.48	0	0	0	0	6	1.44
2	**Agriculture**		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
3	**Pasture**		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4	**Harticulture**		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Total	**ha**	**1**	**0.24**	**1**	**0.24**	**1**	**0.24**	**1**	**0.24**	**0**	**0**	**2**	**0.48**	**0**	**0**	**0**	**0**	**6**	**1.44**
	b. Soil Moisture Conservation																		0	0
																			0	0
1	**Marginal Bund**	ha	49.3	3.21	41.2	2.99	62.3	3.99	86	7.9		97.6	5.9	29.2	1.7	62.4	4.3			

2	**Contour bunding**	ha																		
3	**Peripheral Bund**	ha	22.4	1.7	36.4	1.79	41.7	2.9	90	9.9		136.1	9.8	21.4	2.1	55.4	3.9			
4	**Bench terracing**	ha	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-		
5	**Others / Field Bunding**	ha	46.3	2.83	51.4	3.88	53	3.66	138	3.97	3	0.20	62.3	4.19	42.4	2.45	57.2	3.56		
	Total		**118**	**7.93**	**129**	**8.66**	**157**	**10.55**	**324**	**21.77**	**3**	**0.20**	**296**	**19.89**	**93**	**6.25**	**175**	**11.76**	**1295**	**87.02**
	c. Water Harvesting Structure		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
1	**Form Ponds**	ha	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
2	**Check dams**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
3	**Nallah bunds**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
4	**Percolation tanks**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
5	**Ground water recharge structures**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
	Total		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
	c.Veg. & Engg. Structures		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
1	**Earthen checks**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
2	**Brushwood checks**	Ha	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
3	**Gully plugs**	Ha	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
4	**Loose boulders**	Ha	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
5	**Gabion structures**	Ha	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
6	**Others**	Ha	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
	Total	ha	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
Grand Total WDW			**105.6**	**4.64**	**172**	**6.84**	**139.4**	**6.14**	**162.7**	**7.04**	**119.67**	**4.7**	**241.2**	**11.68**	**97.57**	**3.8**	**123.6**	**6.8**	1161.74	51.68
Livilihood			-	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-		
2	**Bee Keeping**	No.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
3	**Poultry**	No.	1	0.25	0	0	0	0	1	0.25	0	0	0	0	0	0	0	0	2	0.5
4	**Kumhar**	No.	0	0	0	0	1	0.09	0	0	0	0	0	0	0	0	0	0	1	0.09
5	**Bio-Fuel Plantation**	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
6	**General Store**	No.	1	0.25	0	0	0	0	0	0	0	0	1	0.25	0	0	0	0	2	0.5
a	**Goatry**	No.	2	0.5	1	0.25	2	0.5	1	0.25	2	0.5	2	0.5	1	0.25	1	0.25	12	3
b	**Dairy**	No.	0	0	0	0	1	0.25	0	0	0	0	1	0.25	0	0	0	0	2	0.5

c	**Candle making**	No.	2	0.5	1	0.25	2	0.5	1	0.25	2	0.5	2	0.5	1	0.25	1	0.25	12	3
d	**Sweet Packs**	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
e	**Dona Pattal**	No.	0	0	0	0	1	0.25	0	0	0	0	0	0	0	0	0	0	1	0.25
f	**Sewing**	No.	1	0.15	0	0	0	0	1	0.15	0	0	1	0.15	1	0.15	0	0	4	0.6
g	**Tea stall**	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
h	**Painting wark**	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
i	**Carpentry**	No.	1	0.15	0	0	0	0	1	0.15	0	0	1	0.15	1	0.15	0	0	4	0.6
j	**Book seller**		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
k	**Welding(Gas/Electric)**		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Total		**8**	**1.8**	**2**	**0.5**	**7**	**1.59**	**5**	**1.05**	**4**	**1**	**8**	**1.8**	**4**	**0.8**	**2**	**0.5**	40	9.04
Production System & Micro - Enterprices																			0	0
	Production system																		0	0
	a.Crop Demostration																		0	0
1	**Wheat Cultivation**		2	0.22	0	0	0	0	0	0	0	0	2.5	0.23	0	0	0	0	4.5	0.45
2	**Maize Cultivation**		0.5	0.05	0.5	0.05	0.5	0.05	0.5	0.05	0.5	0.05	0.5	0.05	0.5	0.05	1	0.1	4.5	0.45
3	**Paultry**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
4	**Fishries**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
5	**Bio-Fuel Plantation**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
6	**Others**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
7	**Goetry**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
8	**Piggries**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
9	**Bufallow rearing**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
10	**Harticulture**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
11	**Agro-Harticuture**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
12	**Agro-Forestry**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
13	**Vermi Culture**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
14	**Marigold Cultivation**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
15	**Potato Cultivation**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
	Total		**2.5**	**0.27**	**0.5**	**0.05**	**0.5**	**0.05**	**0.5**	**0.05**	**0.5**	**0.05**	**3**	**0.28**	**0.5**	**0.05**	**1**	**0.1**	9	0.9

	b. Micro-Enterprises																	0	0
1	**Oil Speller**	1	0.4	0	0	0	0	0	0	1	0.4	1	0.4	0	0	0	0	3	1.2
2	**Dalia Making Machine**	0	0	1	0.4	1	0.4	0	0	1	0.4	1	0.4	1	0.3	0	0	5	1.9
3	**Vermi Culture**	1	0.1	0	0	0	0	1	0.1	0	0	0	0	0	0	1	0.1	3	0.3
4	**Repair of Pumpset Kit**	1	0.1	0	0	0	0	1	0.1	0	0	0	0	0	0	1	0.1	3	0.3
5	**Mini floor Machine**	1	0.4	1	0.4	1	0.4	0	0	0	0	1	0.4	1	0.4	1	0.4	6	2.4
6	**Maize Seller**	1	0.4	0	0	1	0.4	0	0	0	0	0	0	0	0	0	0	2	0.8
7	**Envelop**	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
8	**Black Smithy**	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
9	**Mobile Repair**	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
10	**Bag making**	-	- -	-	- -	- -	- -	- -	- --	-- -	- -	- -	- -	- -	-	-	- -		
	Total	**5**	**1.4**	**2**	**0.8**	**3**	**1.2**	**2**	**0.2**	**2**	**0.8**	**3**	**1.2**	**2**	**0.7**	**3**	**0.6**	22	6.9

Mahadhanpur 2B1A2b2b

S.No.	Name of Activities	Unit No./ Length/ area ha	Handiya Khurd		Kusori Kala		Naina		Singahi		Mahadhanpur		Handia kalan	
			Rs. Lacs											
			Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost
	1. Watershed Development Work													
	a. Land Development													
1	**Afforestation**	**ha**	2	0.48	1	0.24	1	0.24	2	0.48	0	0	1	0.24
2	**Agriculture**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
3	**Pasture**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
4	**Harticulture**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
	Total		**2**	**0.48**	**1**	**0.24**	**1**	**0.24**	**2**	**0.48**	**0**	**0**	**1**	**0.24**
	b. Soil Moisture Conservation		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
			-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
1	**Marginal Bund**	ha	52.6	3.4	51.4	3.4			61.3	4.1	49.7	3.2	126.7	8.5
2	**Contour bunding**	ha												
3	**Peripheral Bund**	ha	47.4	2.9	49.2	3.7			52.4	4.29	53.4	2.91	141.2	7.61
4	**Bench terracing**	ha											0	0
5	**Others / Field Bunding**	ha	28	2.3	33.4	1.9	4	0.27	51.3	2.7	27.3	2.63	58.1	5.8
	Total		**128**	**8.60**	**134**	**9**	**4**	**0.27**	**165**	**11.09**	**130**	**8.74**	**32.6**	**21.91**
	c. Water Harvesting Structure												0	0

1	**Form Ponds**	ha	0	0	0	0	0.5	4	0	0	0.5	4	1	8
2	**Check dams**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
3	**Nallah bunds**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
4	**Percolation tanks**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
5	**Ground water recharge structures**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
	Total		**0**	**0**	**0**	**0**	**0.5**	**4**	**0**	**0**	**0.5**	**4**	1	8
	c.Veg. & Engg. Structures		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
1	**Earthen checks**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
2	**Brushwood checks**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
3	**Gully plugs**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
4	**Loose boulders**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
5	**Gabion structures**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
6	**Others**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
	Total		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
Grand Total WDW			**130**	**18.74**	**135**	**9.07**	**5**	**0.34**	**167**	**11.22**	**130**	**8.736**	**327**	**21.974**
Livilihood				-	- -	-	- -	- -	- -	- -	- --	-- -		
2	**Bee Keeping**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		

3	**Poultry**	No.	0	0	0	0	1	0.25	0	0	0	0	1	0.25
4	**Kumhar**	No.	0	0	1	0.09	0	0	0	0	0	0	1	0.09
5	**Bio-Fuel Plantation**												0	0
6	**General Store**	No.	1	0.25	0	0	1	0.25	0	0	1	0.25	3	0.75
a	**Goatry**	No.	0	0	1	0.25	0	0	1	0.25	1	0.25	3	0.75
b	**Dairy**	No.	1	0.25	0	0	0	0	0	0	0	0	1	0.25
c	**Candle making**	No.	1	0.25	1	0.25	1	0.25	1	0.25	1	0.25	5	1.25
d	**Sweet Packs**	No.											0	0
e	**Dona Pattal**	No.											0	0
f	**Sewing**	No.	1	0.25	1	0.25	1	0.25	1	0.25	2	0.5	6	1.5
g	**Tea stall**	No.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
h	**Painting wark**	No.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
i	**Carpentry**	No.	-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
j	**Book seller**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
k	**Welding(Gas/Electric)**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
	Total		**4**	**1**	**4**	**0.84**	**4**	**1**	**3**	**0.75**	**5**	**1.25**	**20**	**4.84**
Production System & Micro - Enterprices					-	- -	-	- -	- -	- -	- -	- --		
	Production system		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
	a.Crop Demostration												0	0
1	**Wheat Cultivation**	Ha.	0.5	0.1	0	0	0	0	0	0	0.5	0.1	1	0.2
2	**Maize Cultivation**	Ha.	0.5	0.05	0.5	0.05	0.5	0.04	1	0.09	0	0	2.5	0.23
3	**Paultry**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
4	**Fishries**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
5	**Bio-Fuel Plantation**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
6	**Others**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
7	**Goetry**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
8	**Piggries**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
9	**Bufallow rearing**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		

10	**Harticulture**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
11	**Agro-Harticuture**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
12	**Agro-Forestry**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
13	**Vermi Culture**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
14	**Marigold Cultivation**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
15	**Potato Cultivation**	Ha	-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
	Total		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
	b. Micro-Enterprises		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
1	**Oil Speller**	No.	0	0	0	0	0	0	0	0	1	0.4	1	0.4
2	**Dalia Making Machine**	No.	1	0.38	0	0	1	0.38	0	0	0	0	2	0.76
3	**Vermi Culture**	No.	0	0	0	0	0	0	1	0.09	1	0.09	2	0.18
4	**Repair of Pumpset Kit**	No.	1	0.06	0	0	0	0	0	0	0	0	1	0.06
5	**Mini floor Machine**	No.	0	0	1	0.4	1	0.4	0	0	1	0.4	3	1.2
6	**Maize Seller**	No.	1	0.4	0	0	0	0	1	0.4	0	0	2	0.8
7	**Envelop**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
8	**Black Smithy**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
9	**Mobile Repair**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
10	**Bag making**		-	- -	-	- -	- -	- -	- -	- --	-- -	- -		
	Total		**3**	**0.84**	**1**	**0.4**	**2**	**0.78**	**2**	**0.49**	**3**	**0.89**	**11**	**3.4**

Microwatershed wise Financial Detail.

S.No.	Name of Activities	*NAME OF GRAM PANCHAYAT*							
		Unit No./	**Chhaprasariv 2B1A2b2a**	**Jharkata**	**Husainabad**	**Udaha**	**Mahadhanpur**	Total	

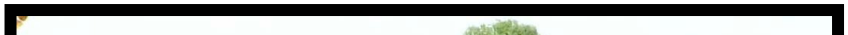
		Length/ area ha	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost
	1. Watershed Development Work													
	a. Land Development													
1	**Afforestation**	**ha**	6	1.44	6	1.44	**3**	**0.72**	6	1.44	6	1.44	27	6.48
2	**Agriculture**												0	0
3	**Pasture**												0	0
4	**Harticulture**												0	0
	Sub Total		**6**	**1.44**	6	1.2	**3**	**0.72**	**6**	**1.44**	**6**	**1.44**	26	6.24
	b. Soil Moisture Conservation								0	0			0	0
									0	0			0	0
1	**Marginal Bund**	ha	290.2	26.6	388.4	25.6	**267.6**	**16.8**	391.8	26.5	230.4	16.56	1568.4	112.06
2	**Contour bunding**	ha					**0**	**0**			0	0	0	0
3	**Peripheral Bund**	ha	341.3	19	442.4	21.204	**249.2**	**8.95**	469.3	11.1	283.7	5.7	1785.9	65.954
4	**Bench terracing**	ha					**0**	**0**			0	0	0	0
5	**Others / Field Bunding**	ha	406.5	22.18	423.2	12.65	**355.2**	**12.6**	437.9	12.6	373.9	3.98	1996.7	64.01
	Total		1038	70.98	1254	59.45	872	38.35	1299	50.2	888	26.24	5351	245.22
	c. Water Harvesting Structure										0	0	0	0
1	**Form Ponds**	Nos	7	20	6	20	3	12	8	22	3	12	27	86
2	**Check dams**						0	0					0	0
3	**Nallah bunds**						0	0					0	0
4	**Percolation tanks**						0	0					0	0
5	**Ground water recharge structures**						0	0					0	0
	Total		7	20	6	20	3	12	8	22	3	12	27	86
	c.Veg. & Engg. Structures		-	- -	- -	-	-	-	- -	- -	- -	-	0	0
1	**Earthen checks**		-	- -	- -	-	-	-	- -	- -	- -	-	0	0
2	**Brushwood checks**	-	-	- -	- -	-	-	-	- -	- -	- -	-	0	0

3	**Gully plugs**		-	- -	- -	-	-	-	- -	- -	- -	-	0	0
4	**Loose boulders**	-	-	- -	- -	-	-	-	- -	- -	- -	-	0	0
5	**Gabion structures**		-	- -	- -	-	-	-	- -	- -	- -	-	0	0
6	**Others**	--	-	- -	- -	-	-	-	- -	- -	- -	-	0	0
	Total		-	- -	- -	-	-	-	- -	- -	- -	-	0	0
Grand Total WDW			**1044**	**90.98**	**1260**	**83.63**	**875**	**57.35**	**1305**	92.2	894	**38.24**	**5378**	361.4
Livilihood														0
2	**Bee Keeping**												0	0
3	**Poultry**		10	2.4	5	1.25	2	0.4	2	0.5	1	0.25	20	4.8
4	**Kumhar**	No.	1	0.11	5	0.5	1	0.12	1	0.09	1	0.09	9	0.91
5	**Bio-Fuel Plantation**						0	0			0	0	0	0
6	**General Store**	No.	10	2	2	0.4	10	2	2	0.5	3	0.75	29	5.8
A	**Goatry**	No.	12	4	9	2.25	6	0.6	12	3	3	0.75	42	10.6
B	**Piggries**	No.			3	0.75	2	0.5	2	0.5	1	0.25	8	2
C	**Candle making**	No.	4	1	13	3.25	4	1	12	3	5	1.25	38	9.5
D	**Sweet Packs**	No.	0	0			0	0			0	0	0	0
E	**Dona Pattal**	No.	0	0	2	0.5	1	0.25	1	0.25	0	0	4	1
F	**Sewing**	No.	6	1.5	3	.75	10	2.5	4	1	6	1.5	29	7.25
G	**Tea stall**	No.	0	0			0	0					0	0
h	**Painting wark**	No.	0	0			0	0					0	0
i	**Carpentry**	No.	10	1.2	3	0.36	3	0.36	10	1.2	5	.6	31	3.7
j	**Book seller**						0	0					0	0
k	**Welding(Gas/Electric)**		0	0			0	0					0	0
	Total		**43**	**9.81**	**40**	**8.76**	**37**	**7.33**	**44**	**9.54**	**19**	**4.59**	**210**	**64.53**
Production System & Micro - Enterprices					0	0	-	- -	-	-	- -	- -	- -	-
	Production system		0	0	-	- -	-	-	0	0			0	0
	a.Crop Demostration		0	0	-	- -	-	-	0	0	0	0	0	0
1	**Sericulture**		0	0	-	- -	-	-	4.5	0.45	1	0.2	5.5	0.65
2	**Bee Keeping**		0	0	-	- -	-	-	4.5	0.45	2.5	0.23	7	0.68
3	**Paultry**		0	0	-	- -	-	-	- -	- -	- -	-	0	0

4	**Fishries**		0	0	-	- -	-	-	- -	- -	- -	-	0	0
5	**Bio-Fuel Plantation**		0	0	-	- -	-	-	- -	- -	- -	-	0	0
6	**Others**		0	0	-	- -	-	-	- -	- -	- -	-	0	0
7	**Goetry**		0	0	-	- -	-	-	- -	- -	- -	-	0	0
8	**Piggries**		0	0	-	- -	-	-	- -	- -	- -	-	0	0
9	**Bufallow rearing**		0	0	-	- -	-	-	- -	- -	- -	-	0	0
10	**Harticulture**		0	0	-	- -	-	-	- -	- -	- -	-	0	0
11	**Agro-Harticuture**		0	0	-	- -	-	-	- -	- -	- -	-	0	0
12	**Agro-Forestry**		0	0	-	- -	-	-	- -	- -	- -	-	0	0
13	**Vermi Culture**		0	0									0	0
14	**Marigold Cultivation**		0	0									0	0
15	**Potato Cultivation**	Ha	12	1.6	3	0.305							15	1.905
16	**Green Manuring**				7	0.7							7	0.7
	Total	Ha	**12**	**1.6**	**7**	**1.005**	4	0.47	**9**	**0.8**	4	.57	32	5.445
	b. Micro-Enterprises								3	1.2	1	0.4	4	1.6
1	**Oil Speller**	No.	10	4	14	5.6	9	3.6	5	2	2	.8	40	16
2	**Dalia Making Machine**	No.	2	0.76	2	0.76	1	0.38	3	0.3	2	0.18	10	3.80
3	**Vermi Culture**	No.	10	1	8	0.8	6	0.61	3	0.3	1	0.06	28	2.8
4	**Repair of Pumpset Kit**	No.	10	1	11	1.06	10	1	25	2.5	4	1.2	40	6
5	**Mini floor Machine**	No.	9	3.6	12	4.8	2	0.8	12	4.8	2	0.8	37	14.8
6	**Maize Seller**	No.	2	0.8	3	1.2	3	1.2	10	4	5	2	23	9.2
7	**Envelop**						0	0					0	0
8	**Black Smithy**						0	0					0	0
9	**Mobile Repair**						0	0					0	0
10	**Bag making**						0	0					0	0
	Total		**43**	**11.16**	**50**	**14.22**	**31**	**7.59**	**48**	**9.9**	**11**	**3.04**	**178**	**52.6**
	Grand Total			**145.3**		**117.3**		**65.88**		**104.4**		**51.03**		**484.02**


कन्टूर बन्ड


मार्जिनल बन्ड



CHAPTER-7

CONSOLIDATION AND WITHDRAWAL STRATEGY

7.1 Quality and Sustainability Issues

7.1.1 Plans for Monitoring and Evaluation

A Web-based GIS System is being developed for monitoring and evaluating the project in its planning & implementation phases. The system would be available on a public domain and can be accessed by all the stakeholders of the project. The system shows the entire state of Uttarpratesh and all of those areas selected over the next 18 years. Filtering allows the user to zoom onto one particular project. Details related to soil type, Land-use classification, inhabitation etc., can be obtained village-wise. Furthermore, survey-number wise details related to ownership, irrigation source, yield etc., can also be accessed by the users of the system. This system is being used for pooling up the details obtained from the DPR. In other words, the DPR is made available online in the form of a database which will help the stakeholders know areas of importance viz., already treated areas/historical works in the area, proposed areas for treatment etc., for further treatment and planning. The system would also show the satellite imageries of various years from the project inception stage to the project closing stages. This allows the user to evaluate the

effectiveness of the treatment and thereby plan corrective measures for the project area. The system would serve as an aiding tool to the planners and evaluators for judging the efficacy of the project.

Yet another component of the Web-based GIS system is the Mobile based Monitoring & Evaluation System, which will help the ground staff alias WDTs (Watershed Development Team) to transmit information from the ground level to the central server. Also, any higher-up official in charge of the project can obtain information regarding the project area on their mobile phone by means of an SMS. The system works in the following manner. The WDT equipped with a GPS instrument marks the latitude-longitude information of various treatment areas during the DPR. The probable sites are then transferred onto the central server. During the works phase, any progress in the treatment areas is reported to the server by means of an SMS by the WDT. Similarly, any nodal officer or higher-up official can view the progress in a project by means of summarized reports generated over frequent periods of time.

7.1.2 Plans for Project management:

The Project management of any watershed programme is very important. It mainly depends upon the community organization and the village level institutes in IWMP I Ballia watershed committee and various user group have been formulated for post project operation and maintenance of assets created during project period. Major emphasis will be on equity and sustainable benefit of the project even after implementation stage. A proper link-up will be built during project period with various institutes and capacity building organization. They will act as a major kingpin during post implementation for scaling up the successful experience during project.

7.1.3 Watershed Development Fund:

The major source of financial assistance after post implementation period is watershed Development Fund. The contribution of it will comes mainly fund the following: Attention:

7.1.4 User Charges:

Various user groups will be formed in village. These user groups will collect user charges according to the designated rules formed during the formation of user group. These funds will be transferred to the WDF funds as per these formulated rules. The secretary of watershed committee (WC) shall maintain the records of the following.

7.2 WATERSHED DEVELOPMENT WORKS

Watershed development works are to be done during Ist to second phase of watershed project. A multi-tier ridge to valley sequence approach should be approached towards implementation of watershed development projects. A net budget of 60 percent is allotted for this work.

Table No.7.1: BACKWARD-FORWARD LINKAGES

S. No.	Project	Type of Marketing Facility	Pre-project (no.)	During the project (no.)	Post-project (no.)
1	***IWMP- I***	**Backward linkages**			
		Seed certification	1	1	1
		Seed supply system	4	4	8
		Fertilizer supply system	2	1	3
		Pesticide supply system	6	6	10
		Credit institutions	Bank-3	Bank-4	Bank-10
		Water supply	-	-	-
		Extension services	2	4	12
		Nurseries	1	1	12
		Tools/machinery suppliers	-	-	2
		Price Support system	-	-	4
		Labour	-	-	-
		Any other (please specify)	-	-	-
		Forward linkages			

		Harvesting/threshing machinery	3	8	14
		Storage (including cold storage)	1	1	4
		Road network			
		Transport facilities	-	-	-
		Markets / Mandis	8	9	12
		Agro and other Industries	1	4	6
		Milk and other collection centres	-	2	7
		Labour	-	-	-
		Hatchery (Portable)	-	4	9
		Vermi-compost unit	-	2	5
		Animal Mineral Mixture	-	-	50 gm/day/animal

TABLE NO. 7.2: LOGICAL FRAMEWORK ANALYSIS

Components	Activities	Outputs	Effect	Impact
Village Institution Formation	§ Formation of Watershed Committee, User Group	§ One Watershed Committee each village	§ Project can be implemented and managed in a democratic and participatory way ensuring equity.	§ Unity and prosperity in the village management.
		§ Number of User group depending on the coverage of particular intervention		§ People's Participation and positive perception towards the programme
Strengthening Village Institutions	§ Organise training and awareness programme for Village institutions	§ awareness camps to be organised.	§ Quality of management of common resources improved.	
	§ Capacity building workshops and exposure visits User Group and Watershed Committee	§ trainings and exposure visits UGs and WCs to be held	§ Quality of distribution of benefits between people improved.	
	§ Failitating and monitoring the functioning of UGs and WCs	§ Capacity building workshops to be organised	§ Increased awareness amongst women about village resources.	
	§ Strengthen linkages between UGs and WCs and Panchayat Institutions.	§ 1 Federations of UGs and WC to be formed.	§ Women participation enhanced in decision-making of GVCs.	
	§ Gender sensitisation of UGs and WCs to increase inclusiveness of samuh decision-making.		§ Involvement of youth and children in village development increased.	
	§ Sensitise village communities to involve children and youth in development.			

Fund Management	§ Improve management and utilisation of UGs and WCs.	§ UGs and WCs operating bank account and managing resources on their own	§ Purpose, frequency and volume of use of the fund enhanced.	
	§ Prepare communities to explore other sources of income for UGs and WCs.		§ Volume of funds generated for UGs and WCs from other sources of income increased.	
Ecological Restoration	§ Protection, treatment and regeneration of common and private lands	§ Common and private lands to be brought under new plantations and agro-horti-forestry like Neem, Adusa, prosopis, Banyan and Peepul	§ Fodder availability from common and private lands increased.	§ Better Ecological order in the area
	§ Protection, treatment and regeneration of forest lands	§ Forest lands to be brought under new plantations and protection	§ Accessibility to common and forest lands increased with removal of encroachments and resolution of conflicts.	§ Increase in the proportion of households having more security of fodder
	§ Plantation of fruits and forest species	§ Trainings, exposure visits and meetings to be organised for communities, village volunteers and staff		§ Reduction in drudgery of fodder and fuel collection, especially women
	§ Impart trainings, conduct meetings and organise exposure visits for communities, village volunteers and staff to effectively plan, execute and monitor activities	§ Income generation intervention promoted		
	§ Identification and promotion of non-timber forest produce based income generation activities			
Rainfed Area Development	§ Treatment of land through improved soil and moisture conservation practices on watershed basis	§ Land to be brought under improved soil moisture conservation practices	§ Improved productivity of treated land	§ Increase in proportion of households having more security of food
	§ Promotion of good agricultural practices- horticulture, improved crop and vegetable	§ Good agricultural practices to be promoted	§ Increased availability of water in wells	
		§ Organic farming to be promoted	§ Increase in annual agriculture production	§ Increase in contribution of agricultural income to the household income
		§ Fodder banksto be established	§ Farmers adopt organic farming practices	
	§ Promotion of organic farming practices	§ Agriculture based livelihood income generation activities to be promoted	§ Fodder security of farmers enhanced.	
	§ Formation of Fodder banks to increase fodder security and promote dairy development among communities	§ Water harvesting structures to be constructed	§ Increase availability of water for 9 to 12 months	
	§ Identification and promotion of agri-produce based income generation activities like grading, processing and packaging.	§ Drip Irrigation facilities to be distributed among farmers	§ Increased availability of water for livestock	
	§ Promotion of better Irrigation practices like drip irrigation	§ Approx 15000 person days of employment to be generated	§ Availability of irrigation water established	
	§ Impart trainings, conduct meetings and organise exposure visits of communities, village volunteers and	§ Trainings, exposure visits and meetings to be organized for communities, village	§ Farmers take two crops in a year	
			agricultural productivity of land	

	staff to effectively plan, execute and monitor activities	volunteers and staff	§ Availability of drinking water enhanced	

Women's Socio-political and economic empowerment	§ Formation & Strengthening of women's SHG groups	§ Women's SHG groups to be formed	§ Enhanced capacities of leaders of women's group in taking initiatives to solve problems at different levels.	§ Position of women in household, community, society (politically, socially and economically) as perceived by women and community at large
	§ Capacity building of womenfolk	§ Federation of Women's SHGs to be formed	§ Improved access to credit for livelihood purposes.	§ Performance enhancement of SHGs in terms of participation, decision-making, leadership and fund management.
	§ Capacity building of SHG leaders and accountants	§ Trainings to be conducted for preparation of woollen products from sheep and goats	§ Increased household income.	§ Equality & Equity in gender relations at home (decision making, expenditure, children's education, health)
	§ Linking SHGs with external financial institutions			

Convergence Planning for various activities

Earthen bund, contour bund, percolation tank, injection well will be made in watershed area convergence with MNREGS

Soil health card, crop demonstration, kisan gosthi, kisan mela, farmer's school also organized in watershed area under many scheme of department of Agriculture.

Composite fish farming or mixed fish farming popularized in this area with Department of fisheries.

Animal health camp, fodder development, vaccination work also made through Veterinary Department.

Aforestation in project area also done with Forest Department.

Dry land horticulture also convergence with department of horticulture.

CHAPTER-8

EXPECTED OUTCOMES

TABLE NO. 8.1: EXPECTED/ESTIMATED OUTCOMES OF IWMP-I				
S.No.	**Item**	**Unit**	**Pre-Project Status**	**Post -Project Status**
01	**02**	**03**	**04**	**05**
01	Status of water table	Meters BGL(m)	-	-
02	Ground water structures repaired rejuvenated	No's	5	4.5
03	Quality of drinking water	Quality	Normal	Improved
04	Availability of drinking water	No of days	300	365
05	Increase in irrigated area	Ha	1736.839	2638.00
	Rainfed Area	Ha	5733.134	4831.973
	CHANGE IN CROPPING/LAND USE PATTERN			
06	Area under agricultural crop	Ha	5149.01	5293.061
	I- Area under sinle crop	Ha	2883.4	1958.4
	II- Area under double crop	Ha	1905.1	2646.5
	III- Area under multiplele crop	Ha	360.4	688.1
	IV- Cropping Intensity	%	151	176
07	Increase in area under vegetation(tree cover)	Ha	95.00	652.00
08	Increase in area under horticulture	Ha	0	588.00
09	Area under fuel& Fodder	Ha	0	916
10	Increase in milk production	Percapita per day/ltr	1.00 To 1.50	2.00 To 3.00
11	No. of SHGs	No's	0	137
12	Increase in livelihood	Rs./Capita/Annum	Approx 15000	Approx 41000
13	Migration	No's	-	-
14	SHG federations formed	No's	0	203
15	Credit linkage with banks	No's	147	197
16	User Group	No's	0	56
17	No. of WSC Found	No's	0	28

8.1 EMPLOYMENT

Employment has always been a problem in the village. The principal occupations of the people are dry land agriculture, animal husbandry and casual labour work. However, rain fall being very limited and erratic, agriculture suffers, i.e. at best they can take only a single crop, which keeps them partially engaged for about 4 months. Lack of fodder makes animal husbandry very difficult too. So, animal husbandry does not keep them engaged full time. Thus the people mainly depend upon casual labour, either in the village itself or outside it.

The project plans for creation of both wage employment and self employment opportunities. Wage employment would be created by engaging people in watershed physical works like construction of earthen bunds, farm bunds, village pond, plantation, etc. Self employment would be created by providing the people with cash support in the form of direct livelihood activities like agriculture, animal husbandry and enterprise development.

8.2 EMPLOYMENT GENERATION

Labour migration in search of gainful employment of one the major problems in the remote watershed in particular. Causal employment opportunities to the tune of more than 0.58 lacs will be generated during the implementation of the project activities. However, the changes in land use pattern and adoption of other subsidiary enterprises will generate employment opportunities for person of 3.09 lacks in the watershed.

8.3 MIGRATION

Low rainfall results in very little fodder availability in the locality. The relatively well off farmers bring fodder from Varanasi (approximately 220 kms away) collectively; but the resource poor cannot afford it. On account of agriculture and animal husbandry providing only part time employment for some part of the year, the people migrate for a better half of the year for wage labour.

Employment opportunities in the local area as mentioned above will ensure lessening seasonal migration from the area.

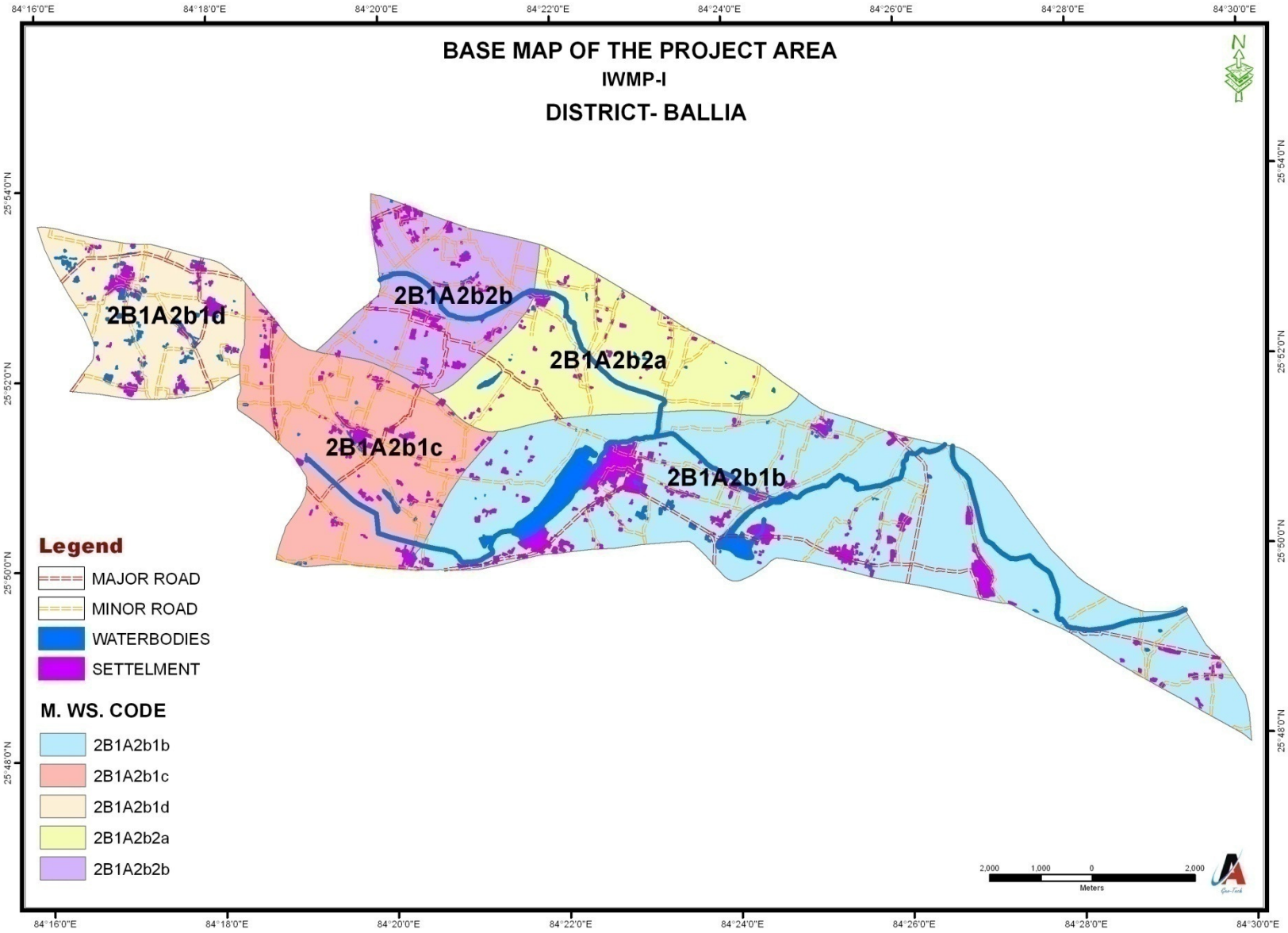
8.4 CROPS

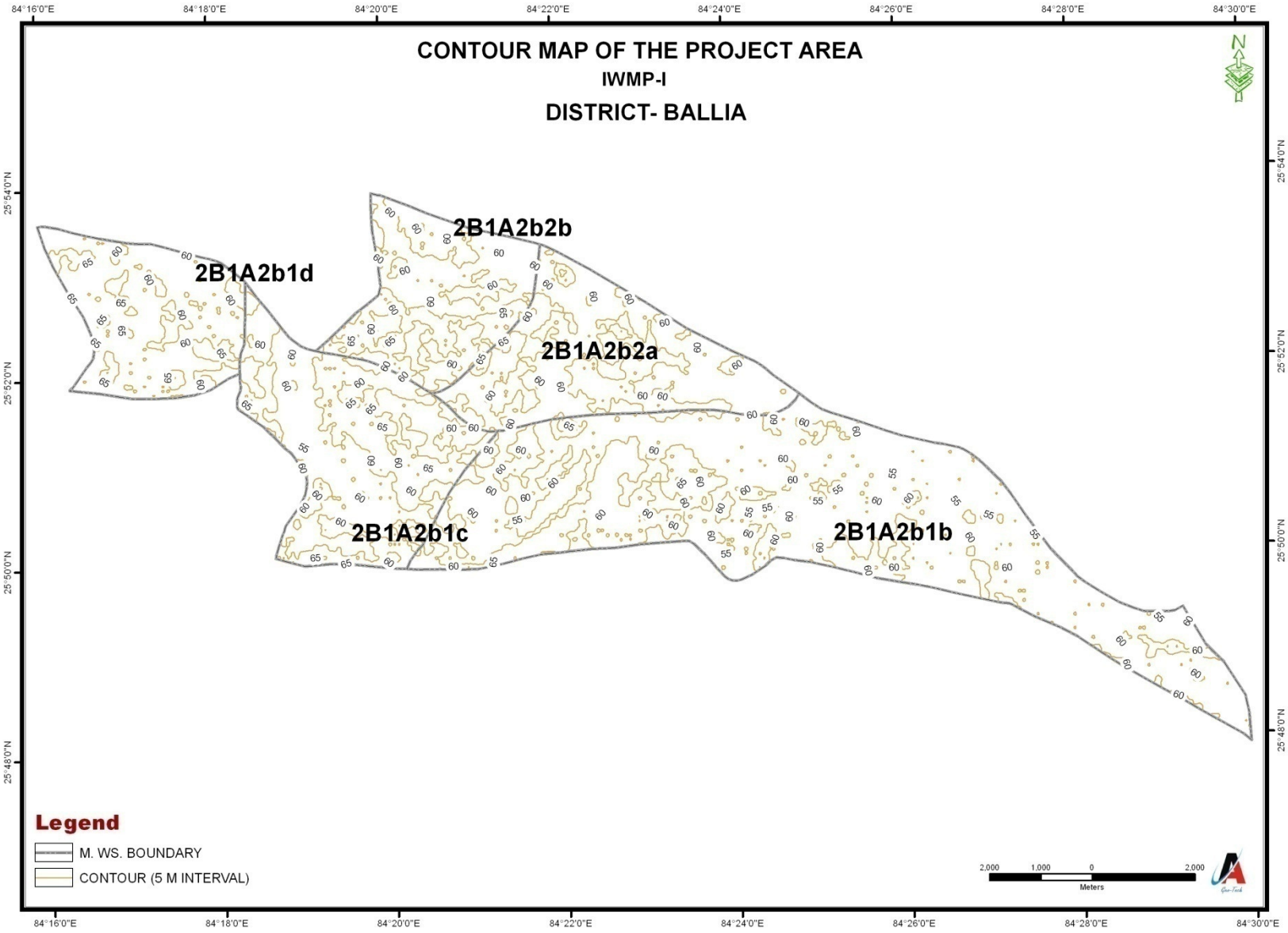
Agriculture primarily depends upon water; but this is what is lacking in IWMP-II village. The surface water is scanty due to low rainfall and ground water which is unfit for crop production.

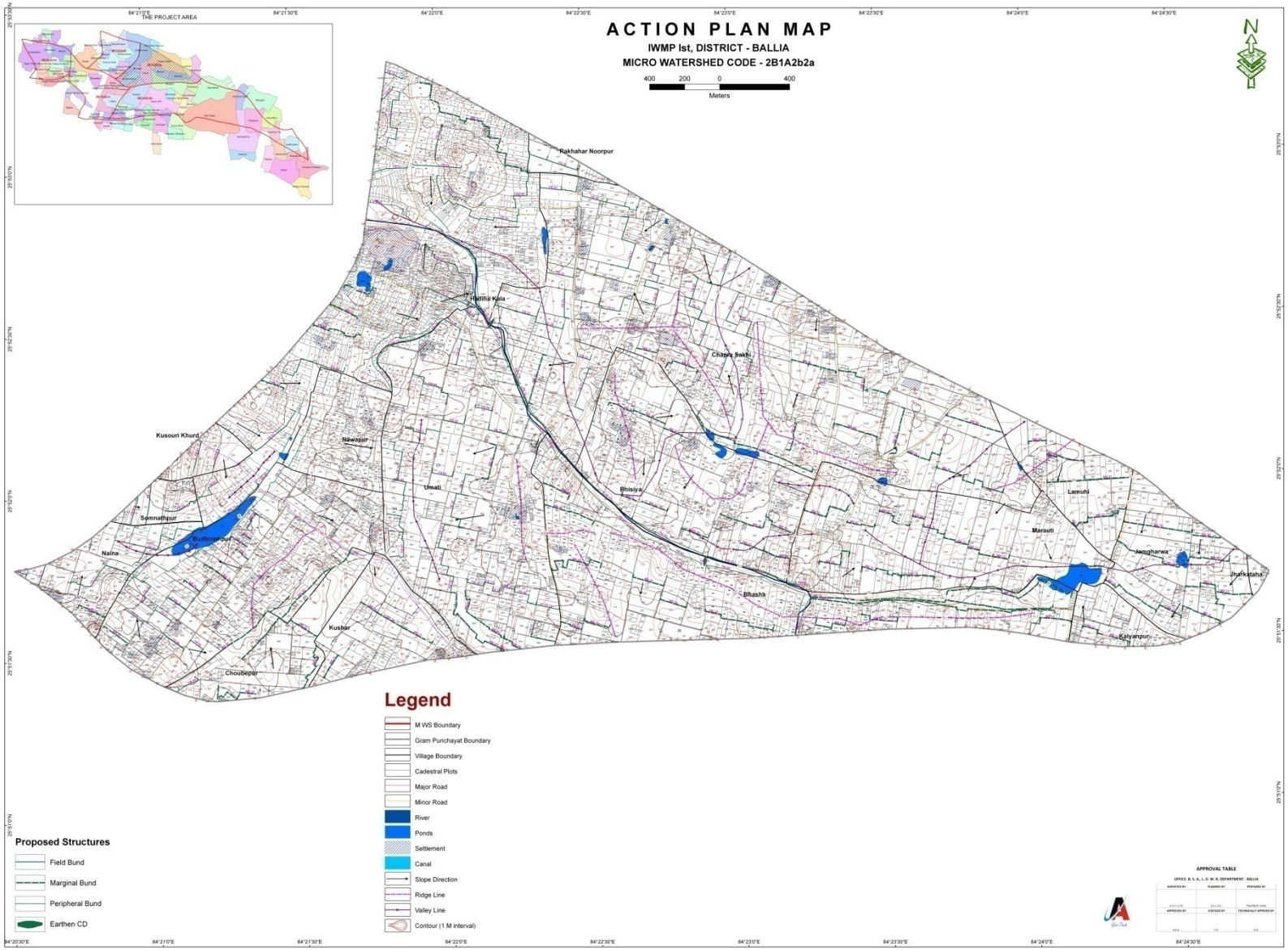
All this can change with the integrated land and water management during the watershed project. The planned earthen bunds would prevent the water and also help percolate water underground, and preserve some moisture in the soil. This will help in additional area coming under cultivation and increasing productivity too. The farmers can take more than one season of crops. Different varieties of crops can be taken.

CHAPTER-9

M A P S


BASE MAP OF THE PROJECT AREA
IWMP-I
DISTRICT- BALLIA
N
84°16'0"E
84°18'0"E
84°20'0"E
84°22'0"E
84°24'0"E
84°26'0"E
84°28'0"E
84°30'0"E
25°54'0"N
25°52'0"N
25°50'0"N
25°48'0"N
2B1A2b1d
2B1A2b2b
2B1A2b2a
2B1A2b1c
2B1A2b1b
Legend
MAJOR ROAD
MINOR ROAD
WATERBODIES
SETTELMENT
M. WS. CODE
2B1A2b1b
2B1A2b1c
2B1A2b1d
2B1A2b2a
2B1A2b2b
2,000
1,000
0
2,000
Meters


CONTOUR MAP OF THE PROJECT AREA
IWMP-I
DISTRICT- BALLIA
2B1A2b2b
2B1A2b1d
2B1A2b2a
2B1A2b1c
2B1A2b1b
84°16'0"E
84°18'0"E
84°20'0"E
84°22'0"E
84°24'0"E
84°26'0"E
84°28'0"E
84°30'0"E
25°54'0"N
25°52'0"N
25°50'0"N
25°48'0"N
Legend
M. WS. BOUNDARY
CONTOUR (5 M INTERVAL)
2,000 1,000 0 2,000
Meters


ACTION PLAN MAP
IWMP Ist, DISTRICT - BALLIA
MICRO WATERSHED CODE - 2B1A2b2a
400 200 0 400
Meters
THE PROJECT AREA
Rakhahar Noorpur
Chhava Sakhi
Kusouri Khurd
Nawapur
Umati
Bhisiya
Somnathpur
Budhiranpur
Naina
Kushar
Choubepur
Bhasha
Lamuhi
Marauti
Jamgharwa
Jhakkataha
Kalyanpur
Legend
M WS Boundary
Gram Punchayat Boundary
Village Boundary
Cadestral Plots
Major Road
Minor Road
River
Ponds
Settlement
Canal
Slope Direction
Ridge Line
Valley Line
Contour (1 M interval)
Proposed Structures
Field Bund
Marginal Bund
Peripheral Bund
Earthen CD
APPROVAL TABLE