

GOVERNMENT OF RAJASTHAN

**RURAL DEVELOPMENT & PANCHAYATI RAJ DEPARTMENT
(WATERSHED DEVELOPMENT & SOIL CONSERVATION)**

DETAIL PROJECT REPORT



NAME OF PROJECT	: IWMP- 35/2011-12
EFFECTIVE AREA OF PROJECT	: RANIGAON KHARDIYA (6633 Ha.)
COST /HA	: Rs. 15000/-
COST OF PROJECT	: 994.95 Lac.
BLOCK	: MAKRANA
DISTRICT	: NAGAU (RAJ.)

Mr. RAJESH KUMAR SHARMA
P/A – ASSISTANT ENGINEER
W.D. & S.C., P.S. - MAKRANA

Mr. S. R. BANJARA
PROJECT MANAGER, WCDC
DISTRICT – NAGAU (Raj.)

Detail of Project:-

1. Name of Project : Ranigaov - Khardiya
2. Sanction No. & date of Project : 35/2011-12
3. Macro & Micro Nos : Cluster
4. Deviation from Project Sanctioned:

Items	As per Project Sanctioned	As proposed in DPR
Project Area	6633.00 Hac.	6633.00 Hac.
Macro/Micro No	Cluster	Cluster
Name of Gram Panchayats	1- Ranigaov, 2- Khardiya	1- Ranigaov, 2- Khardiya
Name of Villages	1. Ranigaov 2. Chak Ranigav 3. Baladhana 4. Manglwa 5. Ucheria Charan 6. Siniya 7. Khardiya 8. Mangalpura 9. Jhalamaliya 10. Munda Kheri 11. chhapara	1. Ranigaov 2. Chak Ranigav 3. Baladhana 4. Manglwa 5. Ucheria Charan 6. Siniya 7. Khardiya 8. Mangalpura 9. Jhalamaliya 10. Munda Kheri 11. Chhapara
Project Cost (Rs in Lakhs)	994.95	994.95

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- Proceedings of gram sabha for EPA approval
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- Watershed Committee Registration certificate
- MoU – PIA – DWMA, PIA – WC(in case of NGO as PIA)

CHAPTER – I

INTRODUCTION

Location.

IWMP Ranigaov - Khardiya Project is located in Panchayat Samiti MAKRANA Block, of NAGAUR district. The project area is between the latitudes 26.25⁰ to 27.40⁰ North & longitudes 73.10⁰ to 75.15⁰ East. It is at a distance of 40.00 km from its Block head quarters and 80.00 Kms. from the district head quarters. There are 11167 nos. Of habitations in the Project area and other details are given below:

General features of watershed

S.No.	Name of Project(as per GOI)	IWMP 35/2011-12
(a)	Name of Catchment	Ranigaov - Khardiya
(b)	Name of watershed area(local name)	Ranigaov – Khardiya
(c)	Project Area	6633.00 Ha.
(d)	Net treatable Area	6633.00 Ha.
e)	Cost of Project	994.95 Lacs
f)	Cost/hectare	15000 per Ha.
g)	Year of Sanction	2011-12
h)	Watershed Code	35/2011-12
i)	No. of Gram Panchayats in project area	Two
j)	No. of villages in project area	Eleven
k)	Type of Project	Semi Desert
l)	Elevation (metres)	1-2
m)	Major streams	No
n)	Slope range (%)	0-1%

Macro/micro	Name of Gram Panchayat	Name of Villages Covered	Census code of villages	Area
Ranigaov	1 Ranigaov	1. Ranigaov	01876600	1353.77
- Khardiya		2. Chak Ranigaov	01876700	31.73
		3. Baladhana	01880300	341.55
		4. Mangalwa	01876800	418
		5. Ucheria Charan	01876500	236.42
		6. Siniya	01876900	570
	2 Khardiya	1. Khardiya	01880800	969.38
		2. Mangalpura	01880700	312.11
		3. Jhmalaliya	01880600	1052.15
		4. Munda Kheri	01880900	365.86
		5. Chapara	01881000	982.03

The project has semi arid zone characterized by season of three month rain about July to September. The mean rain fall of this tract is about 382 mm. The Watershed area has flat topography while the soil of the area is sandy & sandy loam underground water is very deep & also saline & fluoride this project area is single crop most of the area depend upon rain, the major crop raised in Watershed are:

1. Kharif :- Bajra, Moth, Moong, Guvarl.
2. Rabi :- Mustard,Barly, wheat.

Eleven villages which name are

1. ranigov 2.chakranigov 3.ucheriya 4.magalwa 5.siniya 6.baladhana,7.khardiya ,8.mundakheri,9. mangalpura,10.jhmalaliya,11.chhapara.

In the Project area Jat, Rajputh, Muslims, SC community are the primary inhabitants of the village. The livelihood of these peoples is primarily based on rain fed agriculture, animal husbandry wages labour goat & sheep rearing. & other Source of Income many population every day goes to Makrana for working in Mines as Labour.

Climatic and Hydrological information

1	Average Annual Rainfall(mm)												
	Year	Average Annual Rainfall(mm)											
1	2003	260											
2	2004	495											
3	2005	282											
4	2006	422											
5	2007	297											
6	2008	343.5											
7	2009	650											
8	2010	141											
9	2011	545											
10	2012	597											
2	Average Monthly rainfall (last ten years)												
	Rainfall(mm)												
	Month	Year	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	
i)	June		34.5	69.5	34	54	8	19	192	36	28.2	31	
ii)	July		32.5	207	46	173	132	80	85	53	245.5	202	
iii)	August		77	160	98	35	109	153	249	*	173.3	180	
iv)	September		59	10	61	112	0	10.5	7	*	98	102	
3	Maximum rainfall intensity (mm)												
	Duration						rainfall intensity(mm)						
	i) 15 minute duration						65						
	ii) 30 minute duration						92						
	iii) 60 minute duration						120						
4	Temperature (Degree C)												
	Season							Max	Min				
	i) Summer Season							47	30				
	ii) Winter Season							25	5				
	iii) Rainy Season							36	21				
5	Potential Evaporation Transpiration (PET) (mm/day)												
	Season							PET					
	i) Summer							NA					
	ii) Winter							NA					
	iii) Rainy							NA					
6	Runoff												
	i) Peak Rate (cum/hr)							NA					

	ii) Total run off volume of rainy season (ha.m.)	NA		
	iii) Time of return of maximum flood	5 years	10 years	In-Year
	iv) Periodicity of Drought in village area	Three year before		

Other Development Schemes in the project area

S.No	Scheme	Name of the department	Key interventions under the Scheme	Targeted Beneficiaries	Provisions under the Scheme
1	MG Nrega	Panchayati Raj	EMPLOYMENT	2550	100days employment
2	IAY	Panchayati Raj	AWAS	17	To provide house to BPL
3	POP	Panchayati Raj	LOAN	8	To provide loan
4	SGSY	Panchayati Raj	LOAN	6.80 lac.(1SHG)	To provide loan
5	TFC	Panchayati Raj	DRINKING WATER	All Grampanchayat	Cons.of tube well
6	SFC	Panchayati Raj	DRINKING WATER	All Grampanchayat	Cons. Of tube well
7	CM AWAS	Panchayati Raj	AWAS	21	To provide house to BPL

Details of infrastructure in the project areas

Parameters		Status			
(i)	No. of villages connected to the main road by an all-weather road	11			
(ii)	No. of villages provided with electricity	11			
(iii)	No. of households without access to drinking water	45%			
(iv)	No. of educational institutions :	(P)	(S)	(HS)	(VI)
	Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	9	0	2	0
(v)	No. of villages with access to Primary Health Centre	2			
(vi)	No. of villages with access to Veterinary Dispensary	1			
(vii)	No. of villages with access to Post Office	2			
(viii)	No. of villages with access to Banks	2			
(ix)	No. of villages with access to Markets/ mandis	NONE			
(x)	No. of villages with access to Agro-industries	NONE			
(xi)	Total quantity of surplus milk	105 LITER			
(xii)	No. of milk collection centres	(U)	(S)	(PA)	(O)
	(e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	0	0	0	0
(xiii)	No. of villages with access to Anganwadi Centre	7			
(xiv)	Any other facilities with no. of villages (please specify)	0			
(xv)	Nearest KVK	Maulasar (Didwana), Nagaur, Ajmer			
(xvi)	cooperative society	2			
(xvii)	NGOs	0	0		
(xviii)	Credit institutions	2			
	(i) Bank	1			
	(ii) Cooperative Society	1			
(xix)	Agro Service Centre's	0			

Institutional arrangements (SLNA,DWDU,PIA,WDT,WC, Secretary)

DWDU Details

1	2	3
S.No	Particulars	Details of DWDU
1.	PM, DWDU	Dist. Level Nagaur, Dist. Watershed Development Unit, Nagaur
2.	Address with contact no., website	S.R. Banjara, Project Manager, DWDU, Nagaur, Mo.No.-9414863432
3.	Telephone	01582-243270
4.	Fax	01582-243270
5.	E-mail	dwdu.nagaur@gmail.com

PIA particulars

1	2	3
S.No	Particulars	Details of PIA
6.	Name of PIA	PANCHAYAT SAMITI MAKRANA
7.	Designation	A EN, WATERSHED
8.	Address with contact no., website	Rajesh Kumar Sharma A. En. IWMP Panchayat Samiti Makrana, Nagaur Mo. No.-9928287981
9.	Telephone	01588-240259
10	Fax	
11	E-mail	piaaenmakarana2011@gmail.com

WDT Particulars :

1	2	3	4	5	6	7	8

S.No	Name of WDT member	M/F	Age	Qualification	Experience in watershed(Yrs)	Description of professional training	Role/ Function
1	Mr. Rajiv Kumar	M	28	WDT (Engg.)	1 year	Trained By IGPRS Jaipur	Ag. Engg.
2	Mr. Narendra singh	M	28	WDT(Vatenary)	1 year	Trained By IGPRS Jaipur	Vatenary Development
3	Mr. Ram Niwas	M	23	WDT(Ag.)	1 years	No	Agriculture Development
4	Smt. Nirmala	F	24	WDT(social)	2 years		Community Mobilization

Details of Watershed Committees (WC)

S. N.	Name of WCs	Date of Gram Sabha for WC	Designation	Name	M/F	SC/ST/OBC/General	Landless/MF/SF/BF	Name of UG/SHG	Educational qualification
1	Ranigav	18 Jan 2012	President	Dalu Ram	M	SC.	SF	UG(Ranigov)	High school
			Secretary	Shyam Sundar	M	Gen.	MF	----	High school
			Member	Annaram	M	OBC	MF	UG	Educated
				Hanumanram	M	OBC	MF	SHG	Educated
				Jassaram	M	OBC	MF	UG (ucheriya)	Educated
				Jivanram	M	OBC	SF	UG	Educated
				Megharam	M	OBC	MF	UG	Educated
				Gajendra singh	M	Gen	MF	UG (Ranigov)	Educated
				Smt.Maina	F	SC	MF	UG (Ranigov)	Educated
				Smt.Manju kavar	F	Gen	MF	UG	Educated
				Smt.suman kavar	F	Gen	MF	SHG (Ranigov)	Educated
2	Khardiya	19 Jan 2012	President	Ram shukh ram	M	OBC	MF	UG (Mundakheri)	High school
			Secretary	Durgaram	M	OBC	MF	khardia	High school
			Member	Mangi lal	M	OBC	MF	UG	Educated

				Tej ram	M	SC	MF	UG	Educated
				Ram chandra	M	OBC	MF	UG	Educated
				Siyaram	M	SC	SF	UG	Educated
				Raju ram	M	SC	MF	UG	Educated
				Babu singh	M	Gen	SF	UG	Educated
				Smt.Parma devi	F	OBC	SF	UG	Educated
				Smt.Champa devi	F	SC	SF	UG	Educated
				Smt.Santosh devi	F	SC	SF	UG	Educated
							SF	UG	Educated

Problems and scope of improvement in the project area

Problem:-

- (i) Soil & water conservation problem.
- (ii) soil erosion.
- (iii) Fuel & fodder availability problem.
- (iv) Drinking water & irrigation water problem.
- (v) Poor socio economic condition.
- (vi) Low soil fertility problem.
- (vii) Migration problem.
- (viii) Unemployment.
- (ix) Low rate of literacy.
- (x) NO micro enterprises availability.
- (xi) Low and erratic rainfall, frequent droughts leading to land degradations.
- (xii) fodder scarcity leading to low livestock productivity.
- (xiii) Reduction in size of holding.
- (xiv) Village commons shrinking due to encroachment.
- (xv) limited credit input and market facilities.

Scope :- To identify and address issues and gain the in sights Knowledge and experience needed to solve problem and implement change:-

- (i) Alternative land use plan.
- (ii) Scientific tech. of soil & moisture conservation.
- (iii) Improved scientific agriculture practices.
- (iv) Fodder development & management.
- (v) Afforestation.
- (vi) Meteorological information.
- (vii) Dairy development & management.
- (viii) Rural craft.
- (ix) Income generation activities:-
 - (A) Food processing.
 - (B) Post harvest management practices.

Demand :

- (i) People need to good tech of agriculture farming.
- (ii) Drip & sprinkler system required because the loss of water is very low.
- (iii) Food requirement.
- (iv) Fuel & Fodder band requirement.
- (v) New tech. of employment generation. So that migration rate reduced.
- (vi) Horticulture development.
- (vii) Animal husbandry development.
- (viii) Livelihood intervention for landless.
- (ix) people need to conservation water by construction tanka (farm pond) to Drinking & irrigation also.

Base Line Survey Format for IWMP MIS website

Total Cropped Area (Lakh Hectares)	0.06633	Net Sown Area (Lakh Hactares)	0.05419
Total no. of Water Storage Structure	11	Total no. of Water Extracting Units	44
Total storage capacity of water storage structures (cubic meters)	29700	-	-

No. of Household

SC	292	ST	0
Others	1471		
Total Population of the project Area	11167	No. of Household of Landless people	76
Total no. of BPL Household	269		
No. of person-days of Seasonal Migration	321300	No. of Marginal Farmer's Household	877

Depth of Ground Water (meters) below Ground level

Pre- monsoon	138	Post-monsoon	137
No. of person-days of Seasonal Migration	2142		642

Project Name – IWMP-35/2011-12

Total Geographical Area of Project (0.06633 LAKH Hec.)

Treatable Area

Wasteland (Lakh Hectares)	0.0010889	Rainfed Agricultural Land (Lakh Hectares)	0.0618553
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CHAPTER – II

Socio Economic Features, Problems and Scope:

Socio economic :-

The socio economic condition of the area can be improved through increased production can be achieved through expansion in cultivated area. The production gap of major crops in the area as compared with district and with areas in the same agro climate zones imply potential to increase the productivity. The demonstration of improved package practices, improved varieties, increased irrigation facilities and soil conservation measures under the project can bridge this gap. Due to small land holding in the area focus of the project will be on diversification in agriculture (horticulture, vegetables, Agro forestry) and diversification in Livelihoods (Agriculture, Animal husbandry, self employment) Quintal fodder scarcity can be met through Pasture development. Improvement animal husbandry practices can increase the productivity of livestock. Migration can be checked through creation of employment opportunity the project area through increase in production and diversification in agriculture and livelihood mentioned above. According to base line survey total population of project area is 11167. The sex ratio is 953 per 1000. 1687 people have their own field and related to agriculture directly. There are 269 BPL families and 292 families of SC. The literacy ratio is 59%. There are 5717 male and 5450 female in project area. SC population is 2326 which is approximately 21 percent of total population.

Some following problems are given below with scope of improvement –

1. Drinking water problem: - Ranigaon Khardiya is totally desert area. Problem of drinking water is a one of the severe problem of this particular region.

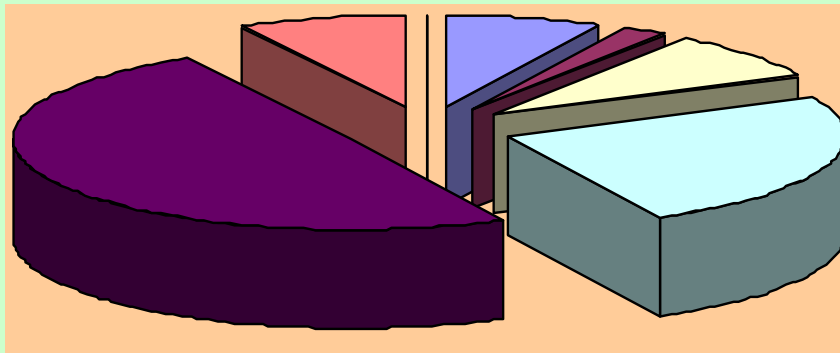
Objectives – we have to point out those families which are straggle from this problem. Then we should make a list on the basis of base line survey and plan for public farm pond and farm pond.

2. Unemployment: - literacy ratio of project area is 59 %. Unemployment status becomes a large and severe problem of the area because they did not complete their education. So how can they get job according to their qualification.

Objective- first of all we should conduct capacity Building training for those people to make them self depend. We should also make awareness about government schemes.

2.1 House Hold Detail :-

HOUSE HOLD DETAIL						
BPL HOUSE HOLD	Land LESS	SMALL FARMER	MARGINAL FARMER	TOTAL HOUSEHOLD	S.C. HOUSEHOLD	S.T. HOUSEHOLD
269	76	330	858	1763	292	00



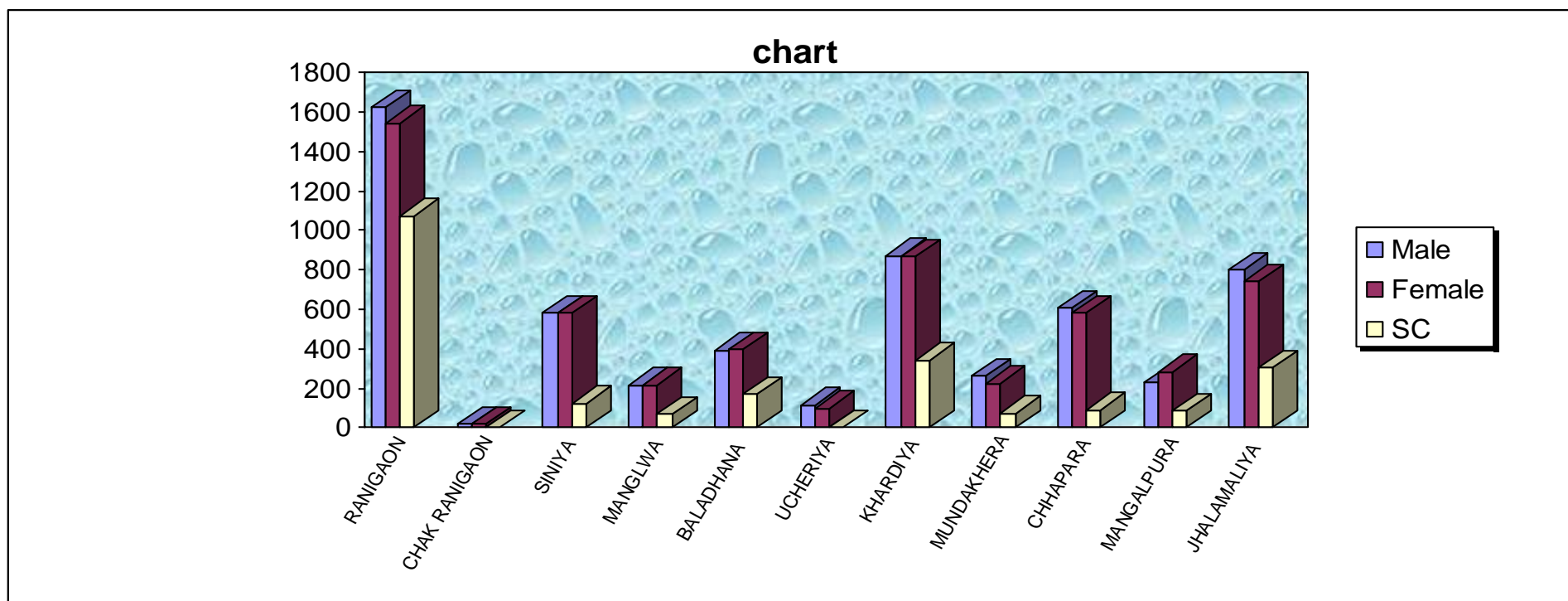
- HOUSE HOLD DETAIL BPL HOUSE HOLD
- HOUSE HOLD DETAIL Land LESS
- HOUSE HOLD DETAIL SMALLA FARMER
- HOUSE HOLD DETAIL M. FRMER
- HOUSE HOLD DETAIL TOTL HOUSEHOLD
- HOUSE HOLD DETAIL S.C. HOUSEHOLD
- HOUSE HOLD DETAIL S.T. HOUSEHOLD

Population Details -

S.No.	Village	Area Hac.	Total House hold	Total Population	Total Male	Total Female	SC Population	SC Male	SC Female	BPL HOUSE HOLD
1	Ranigaon	1353.77	503	3165	1621	1544	1070	540	530	93
2	Chak -Ranigaon	31.73	7	36	19	17	00	00	00	00
3	Siniya	570	177	1162	580	582	122	62	60	17
4	Mangalwa	418	60	433	218	215	71	34	37	09
5	Baladhana	341.55	123	789	393	396	171	85	86	11
6	Ucheriya Charan	236.42	33	214	115	99	00	00	00	07
7	Khardiya	969.38	292	1738	872	866	340	178	162	76
8	Mundakheri	365.86	74	487	264	223	72	41	31	10
9	Chhapara	982.03	178	1190	608	582	90	47	43	15
10	Mangalpara	312.11	76	412	227	185	86	54	32	07
11	Jhalamaliya	1052.15	240	1541	800	741	304	171	133	24
	Total	6633.00	1763	11167	5717	5450	2326	1212	1114	269

Comparative Study of Population in various Villages.

	RANIGAON	CHAK RANIGAON	SINIYA	MANGLWA	BALADHANA	UCHERIYA	KHARDIYA	MUNDAKHERA	CHHAPARA	MANGAL PURA	JHALAMALIYA
Male	1621	19	580	218	393	115	872	264	608	227	800
Female	1544	17	582	215	396	99	866	223	582	285	741
SC	1070	00	122	71	171	00	340	72	90	86	304



2.2 Development indicators : -

1. Physical development indicators: -

Physical indicators are those things which show the infrastructure of a particular village like Post office, Schools, Medical, Primary health center, Bank ... etc. In the context of watershed area, all physical development indicators are there.

2. Human development indicators: -

These indicators show the availability of better employment sources in village like – how many people related to govt. sector, People have their own business, how many artisans are there, how many people migrated from the village for better employment, how many people depend on agro base activities, what is the condition of live stocketc. In the context of Ranigaon khardiya gram Panchayat, all most people depend on agriculture and livestock some people have their own business, some has been gone to other state for better opportunity and some have their own traditional business.

3. Natural resources management : -

NRM means natural resources management. We have to prevent the natural resources for the sustainable development through well management. It can be possible when all the people seriously think about it that how to prevent and manage the natural resources.

There are four major contains of NRM given below in the context of Ranigaon Khardiya.

1. Water resources
2. Land resources
3. Forest resources
4. Animal resources

We have to take some responsibilities for the natural resources management. In the project area of Ranigaon Khardiya Watershed, there is lots of scope for water resource management like some activities .

- i. Roof rain water harvesting

ii. Tanka

People can easily save the water through this process. Through horticulture activities we can protect forest, trees and plants in this particular watershed area. This watershed area has sandy soil that's why soil erosion is a common problem of area. To control soil erosion we have to take a task of massive plantation. Animals are also natural resources on earth, so protection of animals is also our duty. We should castrate unproductive animals and improve the productive animals through natural process or artificial insemination.

These development indicators are those indicators which reflect our natural resources like drinking, water level, forest land area, pasture land, availabilities of fodder and fuel, grading field, wells and lake....etc.

4. Social development indicators: -

Those indicators which are show the norms customs, and situation of village, female status, education status of girls and female, health status, marriage status in the context of watershed area. There are so many evils like child marriage, partha and superstition. So we have to aware the people by social activities like through development indicators.

5. Economic and development indicators: -

Show the level of economic condition of people who depend on the particular area like

1. Agriculture,
2. Their own business dependency in which sector they are earning,
3. What is the quality of land, livestock, and livelihood and per capital *income*?

Table 2.2A Development indicators

S.No.	Development indicators	State	Project Area
1	Per capital income (Rs.)	16260	14400
2	Poverty ratio	0.22	0.18
3	Literacy (%)	60.4	59
4	Sex Ratio	921	953

2.3 Land Use:-

The project area 6633.16 Hec. and 6202.53 Ha. of cultivable land and wasteland 108.89 ha of fallow land total fallow land is 783.39 ha. can be brought under cultivation if some irrigation source can be provided through Construction of Tanka, Farm ponds, soil conservation measures etc. and also through demonstration of rainfed varieties of crops. Pasture development will be taken up on these lands Pasture development the land use table shows that there is 193.65 hectare pasture land .This emphasizes the need for taking up pastureland development works through sowing of promising species of grasses and plantation

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>	<i>12</i>
<i>S. No.</i>	<i>Name of watersheds</i>	<i>Names of villages</i>	<i>Geographical Area of the village</i>	<i>Abadi</i>	<i>Goacher</i>	<i>Agriculture Land</i>	<i>Other Land</i>	<i>Small Farmer</i>	<i>Marginal Farmer</i>	<i>SC Land</i>	<i>S T Land</i>
1.	Ranigaon-Khardiya	Ranigaon	1353.77	25.55	40.85	1244.99	42.38	85	243	277.06	0
2 .		Chak Ranigaon	31.73	0.13	0.00	30.84	0.76	2	1	0.00	0
3.		Baladhana	341.55	5.31	9.50	319.66	7.08	19	98	48.92	0
4.		Ucheriya	236.42	1.15	5.23	222.28	7.76	0	28	2.31	0
5.		Siniya	570.00	5.77	0.30	544.77	19.16	24	55	24.79	0
6.		Maglawa	418.00	4.61	15.30	393.10	4.99	15	9	12.38	0
7.		Khardiya	969.38	15.50	28.88	908.96	16.04	41	197	131.45	0
8.		Chapara	982.03	13.59	31.28	929.57	7.59	66	103	66.11	0
9.		Mundakheri	365.86	3.24	18.56	341.15	2.91	22	36	48.81	0
10.		Mangalpura	312.11	2.42	36.02	270.68	2.99	13	47	21.69	0
11.		Jhilmaliya	1052.15	8.00	7.73	996.53	40.05	43	41	123.87	0
		Total	6633.00	85.27	193.65	6202.53	151.71	330	858	757.39	0

2.4 Agriculture status and Productivity Gap Analysis:-

2.4.1 Agricultural and Horticultural productivity gap analysis : - Agriculture productivity based on irrigated and unirrigated

Area where as horticulture productivity based on only irrigation. Project area is totally unirrigated so possibility of horticultural productivity is very low.

2.4.2 Live stock gap of fodder availability: - We have good strength of live stock in project area. Supply of cattle feed has been arranged according to the body weight of dry matter. So first of all, we have to calculate quantity of essential dry matter according to body weight of cattle.

Indigenous cow – 2 to 2.50 kg / 100 kg body weight

Buffalo / hybrid cow – 3 kg /100 kg body weight

According to information given above, there is 7 kg cattle feed should be given to Indigenous cow and 9 to 12 kg cattle feed should be provided to buffalo and hybrid cow.

Classification of feed stuff –

On the basis of nutritional substance, feed stuff can be divided in to three parts mainly –

- Roughages
- Concentrates
- Feed additives

1. Roughages: -

Roughages are those feed stuff in which non – digestive substance is found in majority and digestive

Substance are in low quantity. Roughages can be divided in to two parts on the basis of moisture –

- **Dry roughages:** - Dry roughages is those in which moisture is found up to 15 percents. Eg. – Wheat bhusa, paddy straw, pea bhusa, Lucerne hay...etc.

➤ **Succulent / green roughage:** - Green roughages is those in which moisture is found up to 60-90 %. Eg. – Sorghum, Maize, Berseem.

2. Concentrates: -

Concentrates are those feed stuff in which digestive and nutritional substance is found in large quantity.

Eg. – Maize, bajra, wheat bran.

3. Feed additives: -

Feed additives are those feed stuff which is found in very low quantity in body and known for special work execution.

Main sources of fodder availability: -

Plenty of fodder in our state is a regular problem. This problem becomes a severe problem in draught. We always need for substitute of it. So we should keep knowledge of fodder resources which can be supplied. Main sources of fodder are given below –

- Government and pasture land.
- Forest land.
- Fertile land
- Gross unirrigated field
- Gross irrigated field

Wastage of Gwar, Bajara, Moong, Moth etc... is generally used as dry roughages in Rajasthan. Jwar, Bajara and Moth are generally available as green roughages.

Table 2.4.1: Crop Cycle

S. No.	Crop cycle	Sowing season	Availability	Production of green roughages (Production/Hec.)
1-	M.P. roughages and Bajara	First week of March	May-July	300
2-	Rijaka and Gwar	Mid July	Sept.- Oct.	200
3-	Mustered & Rijaka	Last week of Oct.	Mid Dec. – May	500
4-	Napier & hybrid Bajara	June-July	August- Oct.	400
5-	Rijaka and Jai	Mid Oct.	Dec.- May	600
6-	Chawala	Feb. March	April - May	100
7-	M.P. roughages and Gwar	June-July	Sept.-Nev.	250
8-	Jai & Mustered a	Nov.	Jan.-April.	350
9-	Rijaka & Chinese Mustered	Oct.	Nov.- Dec.	500
10-	M.P. roughages	March	May-July	300
11-	Bajara & Gwar	June last	August-Nov.	250
12-	Jai and Rijaka	Last Oct.	Dec.-May	600
13-	Gini grass	Feb.- March	April-Oct.	800
14-	Blupenic grass	Feb.- March	Jan.-Dec.	400
15-	Maze(grass)&Cowpea	March first week	May-July	300
16-	Jwar(grass)& Cowpea	Mid July	Sept.-Oct.	250
17-	Rijaka – mustered	Oct.Last week	Mid. Dec.-May	400

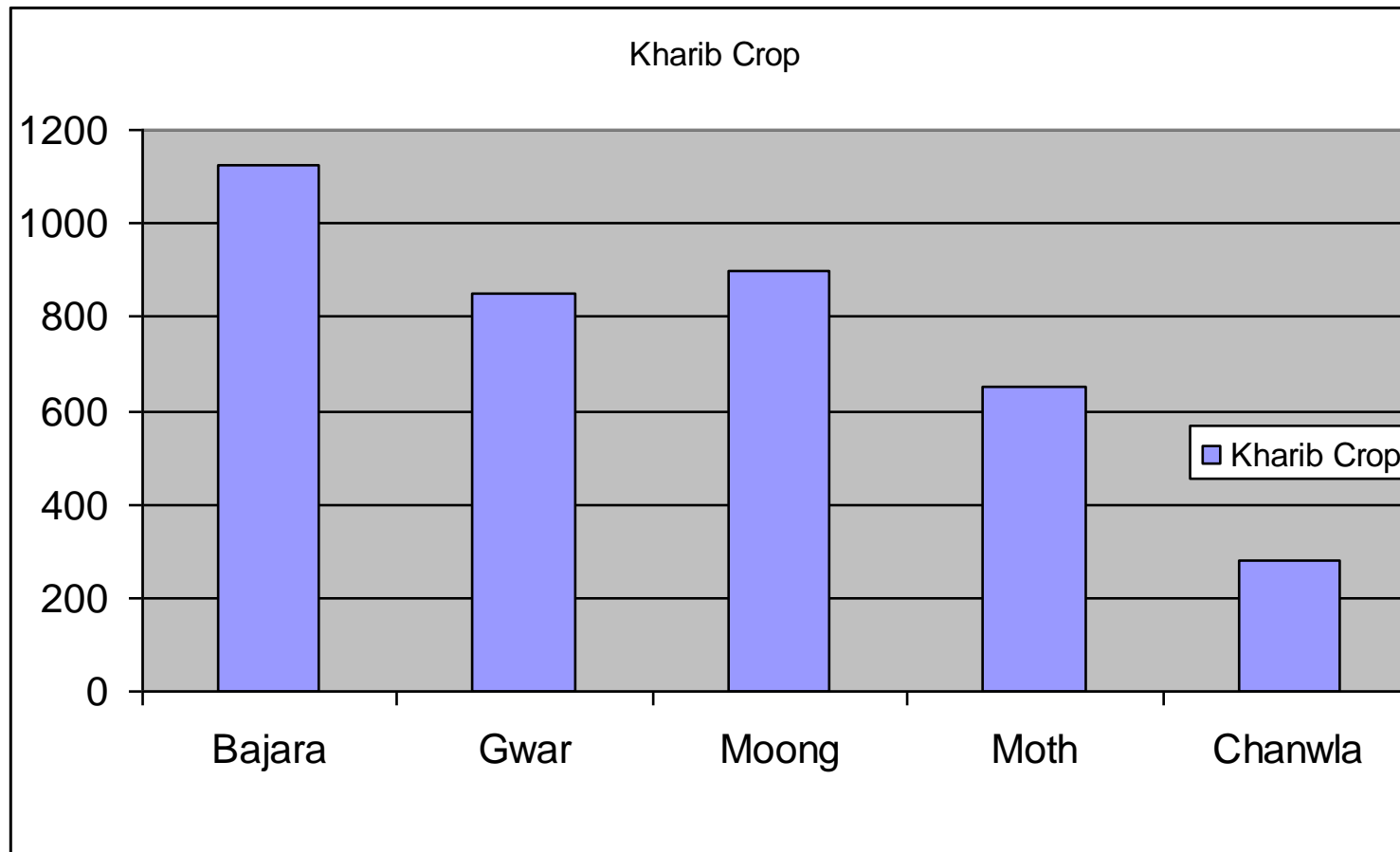
Table 2.4 .2 Agriculture and Horticulture status and fuel availability.

Table 2.4 .a Agriculture and Horticulture status and fuel availability.

S.No.	Season	Crop sown	Rain fed			Irrigated			Total	
			Area (ha)	Production (Ton)	Productivity (kg/ha)	Area (ha)	Production (Ton)	Productivity (kg/ha)	Area Ha	Production in Ton
1	Kharif	Bajra	3718	4182.75	1125	0	0	0	3718	4182.75
		Guavr	1151.14	978.35	850	0	0	0	1151.14	978.35
		Moong	337	303.30	900	0	0	0	337	303.30
		Moth	154	100.10	650	0	0	0	154	100.10
		Chawla	42	11.76	280	0	0	0	42	11.76
2	Rabi	Wheat	0	0	0	5.43	10.32	1900	5.43	10.32
		Barly	0	0	0	3.00	3.30	1100	3.0	3.30
		Musturd	0	0	0	8.57	7.71	900	8.57	7.71
		Total	5402.14	5576.26	-----	17.00	21.33	-----	5419.14	5597.59

Comparative Study of Agriculture Productivity (kg./Ha.) for various crops.

Crop	Bajara	Gwar	Moong	Moth	Chanwla
Kharib Crop	1125	850	900	650	280

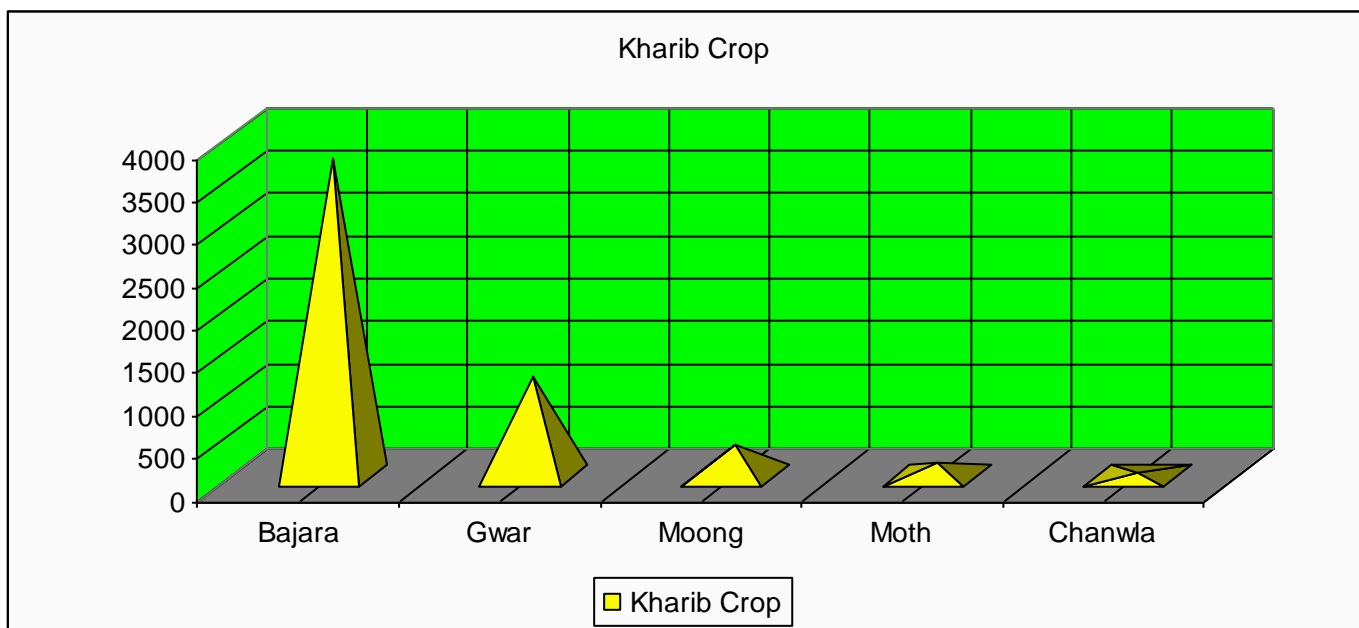


Comparative Study of Agriculture Productivity (kg./Ha.) for various crops

Crop	Wheat	Barly	Mustered
Rabi Crop	1900	1100	900

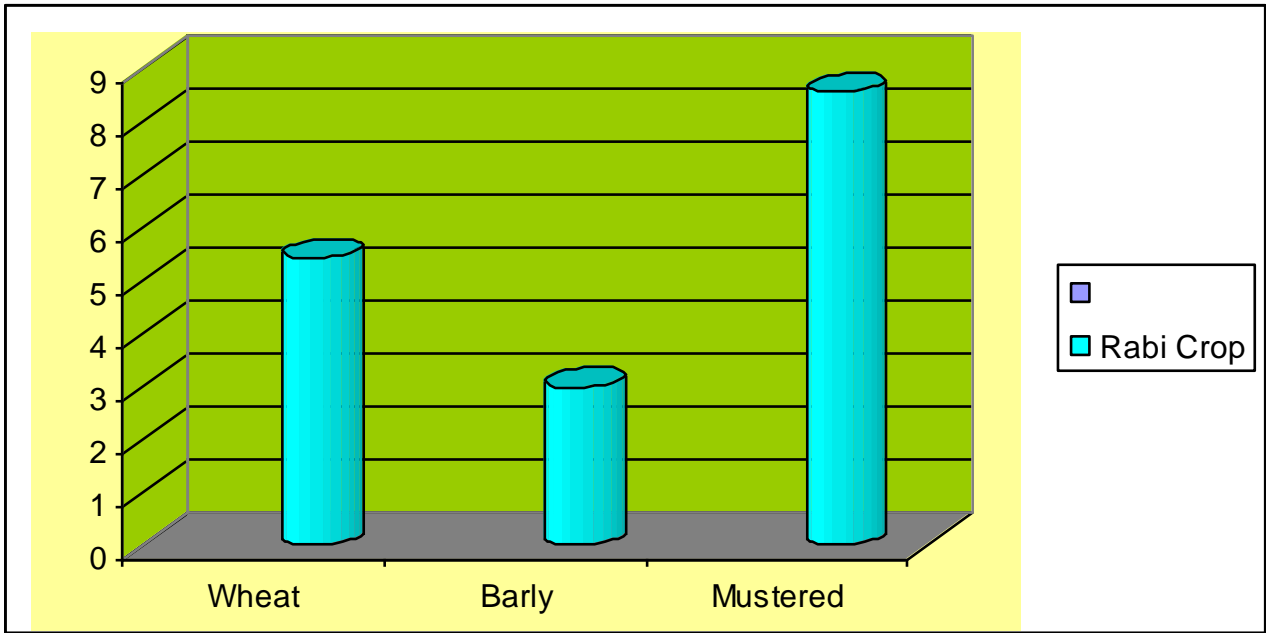
Comparative Study of sowing area in (Ha.) for various kharif crops:-

Crop	Bajara	Gwar	Moong	Moth	Chanwla
Kharib Crop	3718	1151.14	337	154	42



Comparative Study of sowing area in (Ha.) for various Rabi crop:-

Crop	Wheat	Barly	Mustered
Rabi Crop	5.43	3.00	8.57



Comparative Study of Agriculture Production in Ton. for various crops:-

Crop	Bajara	Gwar	Moong	Moth	Chanwla	Wheat	Bary	Musterd
Kharib/ Ravi	4182.75	978.35	303.30	100.10	11.76	10.38	3.30	7.71

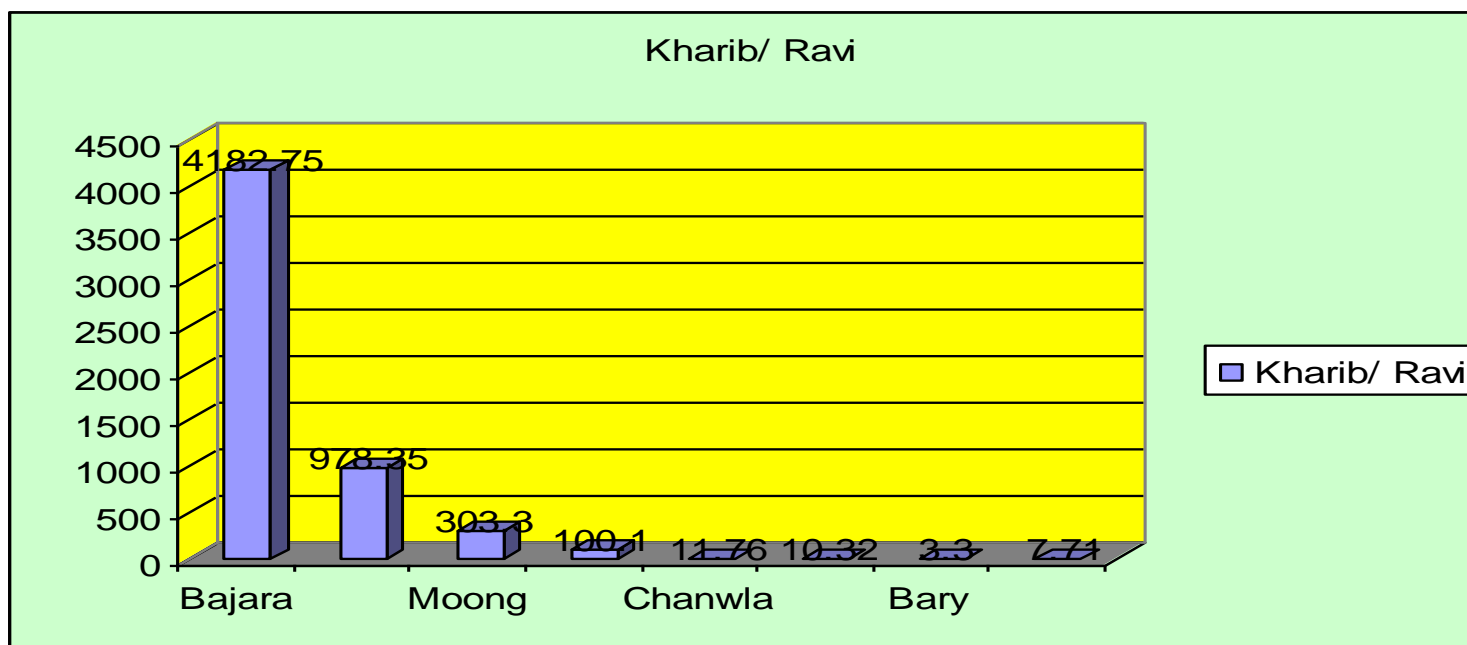


Table 2.4.b	Abstract of
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	cropped Area(ha)
Area under single crop	5402.00
Area under Double crop	17.00
Area under Multiple crop	0.00

Table 2.5 Existing re under Horticulture/Vegetablesa/Floriculture (Ha)

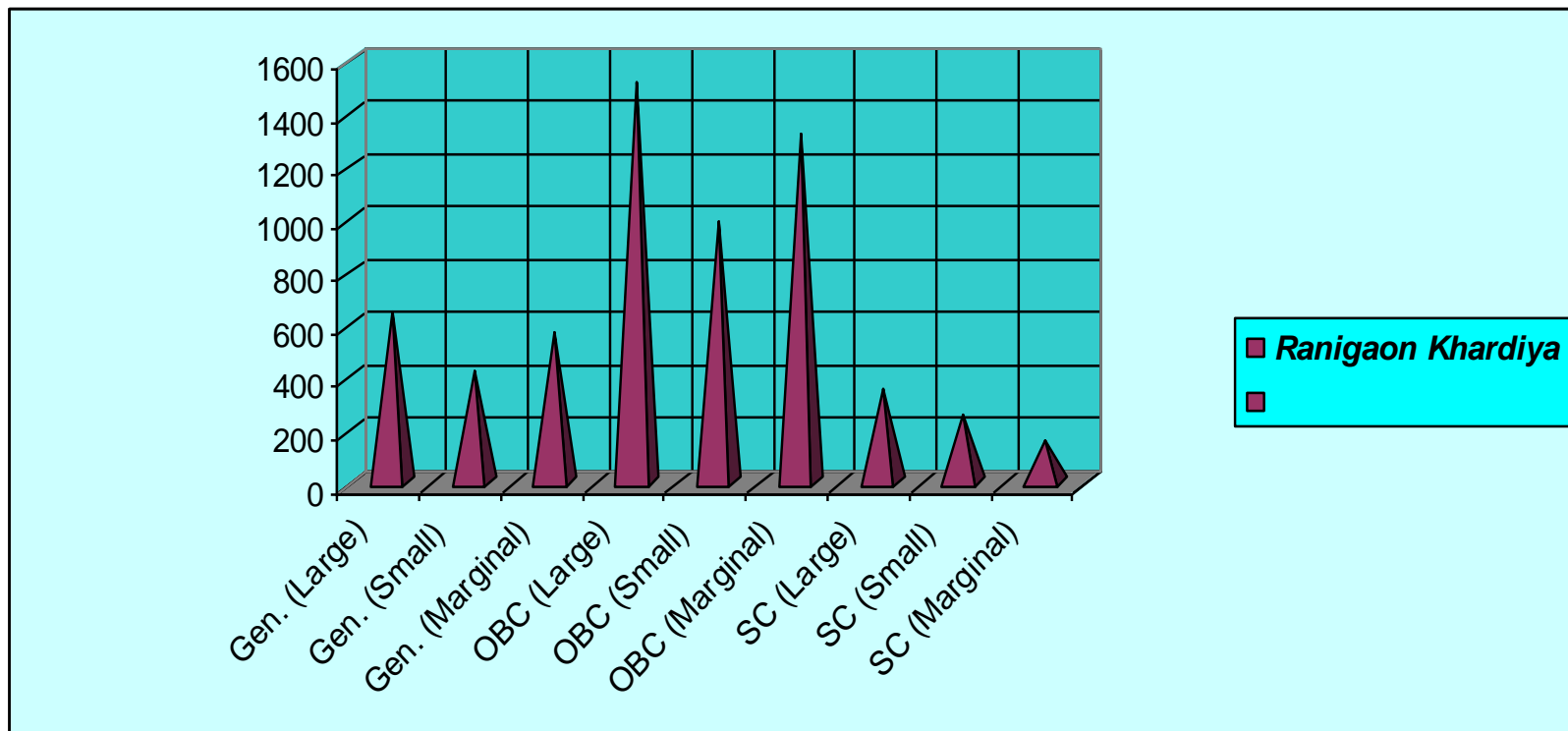
Activity	Area	Species	Varieties	Recommended varieties	Production
Horticulture	0	0	0	0	0
Vegetables	0	0	0	0	0
Floriculture	0	0	0	0	0
Medicinal Plants	0	0	0	0	0

2.6 Land holding patterns :- As per available revenue records & base line survey following data indicates land holding patterns.

Sr.No.	Type of Farmer	Total Households	Land holding (ha.) irrigation source wise			Land holding (ha.) Social group wise				
			Rainfed	Irrigated (source)	Total	General	OBC.	SC	ST	BPL
			Hct.	Hct.	Hct.	Hac.	Hac.	Hct.		
1	Large Farmer	230	2494.00	11.00	2505.00	646.81	1509.90	348.29	0	0
2	Small Farmer	330	1656.69	6.00	1662.69	422.03	984.71	255.95	0	0
3	Marginal Farmer	858	2034.84	0.00	2034.84	564.51	1317.18	153.15	0	0
4	Landless Person	76	0.00	0.00	0.00	0.00	0.00	0.00	0	0
5	No. of BPL Household	269	0.00	0.00	0.00	42	105	122	0	269
	Total	1763	6185.53	17.00	6202.53	1633.35	3811.79	757.39		

Comparative Study of Land Holding (Ha.) patterns in various casts :-

village	Gen. (Large)	Gen. (Small)	Gen. (Marginal)	OBC (Large)	OBC (Small)	OBC (Marginal)	SC (Large)	SC (Small)	SC (Marginal)
Ranigaon Khardiya	646.81	422.03	564.51	1509.90	984.71	1317.18	348.29	255.95	153.15



2.7 Livestock status and activities based upon livestock: -

2.7.1 Milk Collection Booth: -

Milk collection booth is place which provides a facility to people of concerning area of giving their collection at booth and get amount in respect of it. In this particular field we can play a role of facilitier by establishment of booth. After completing base line survey of milk availability, report of survey will send to dairy and get permission of booth. After getting permission we should make a comity of president, secretary and other members. We should also make clear that collection of milk will be on the basis of fat and CLR. Milk below of minimum level of CLR will not be accepted. Various type of minerals mixture, Iodine salt, Soya bin Banta...etc provided at minimum marginal rate to their home.

2.7.2 Dairy: -

Favorable condition of dairy is found in project area. Successful direction and management of a dairy farm is an important process. Ideal dairy farm means all the fundamental facilities are available in dairy farm, and workers of it, are dedicated to give a healthy production as possible as. In dairy farm all type of facilities are provided properly as like – all type of sheds, all type of feeding , drinking and management facilities are available. Result of all these facilities are that we get a production of good quality and quantity.

Objectives of dairy farm –

- Milk production of healthy quality
- By product of good quality
- Save the animals from adverse condition

The role and responsibilities of facilitator :- The main purpose of increasing quantity and quality of cattle is also another important part of dairy in particular watershed area of Ranigaon Khardiya gram Panchayat. We should make a list of member who wants to do it as a business purpose than they can make a SHG for business purpose. We should learn them process that how to get loan for dairy purpose .

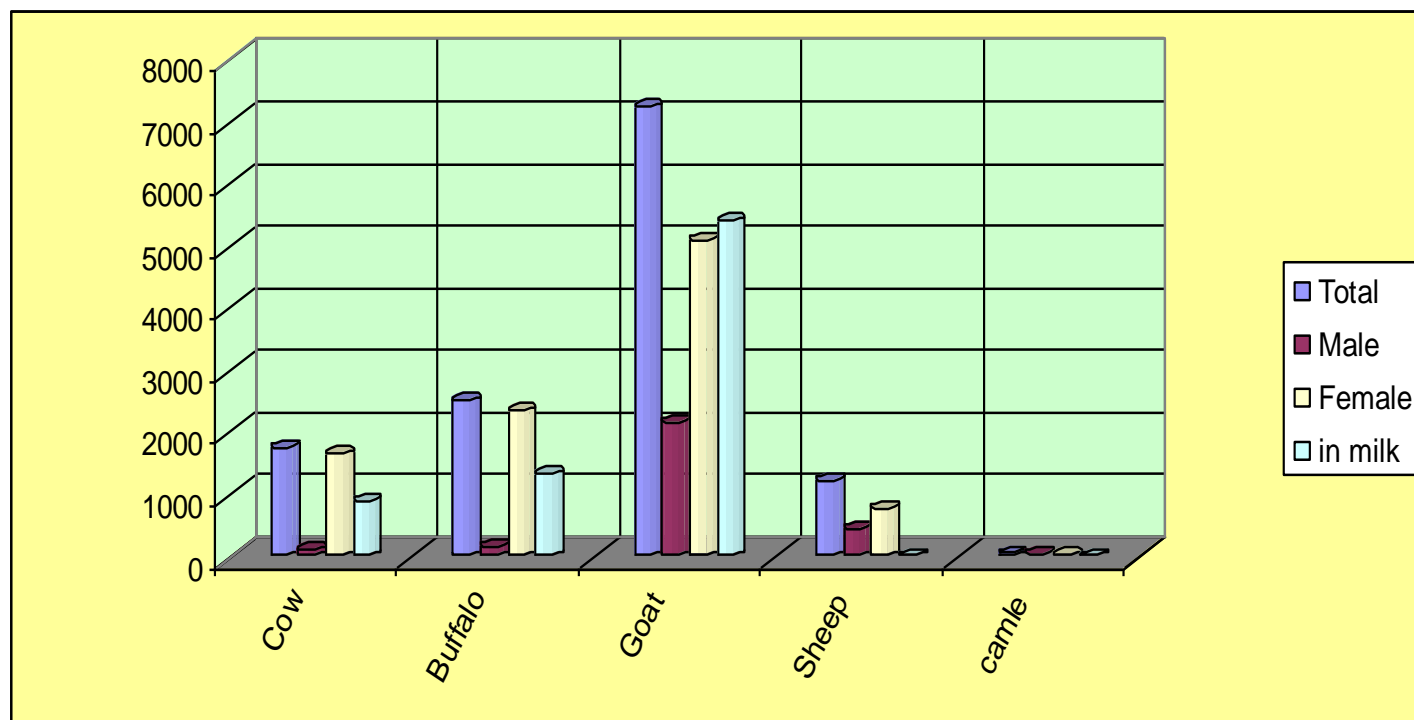
Treatment, Nutrition and breed improvement are main weapons of a facilitators. In the treatment side we have to directly involve with farmer. In our project area we should make a annual plan of work to be execute. If proper nutrition will provide to animal, we have not face any severe disease. Sometime seasonal disease may be occurs but it can be treated easily.

Table 2.7 Livestock Status - animals/milk production / average yield:-

<i>S. No.</i>	<i>Description of animals</i>	<i>Population in No.</i>	<i>Yiels (Milk/mutton/wool)</i>	<i>Equal cow units</i>	<i>Dry matter requierment per year (7.5 kg per animal)</i>	<i>Total requirement in M.T.</i>
1	Cows	1743				
a	Indigenous	1721	391500 Lt. per year	1721	3097800 kg. per year	3097.8
b	Hybrid	22	33000 lt. per year	22	39600 kg. per year	39.60
2	Buffaloes	2497	633600 lt. per year	2497	4494600 kg per year	4494.60
3	Goat	7239	324000 kg. per year	3620	6516000 kg per year	6516.00
4	Sheep	1208	724 kg per year	604	1087200 kg per year	1087.20
5	Camel	38	-	38	68400 kg per year	68.40
		12725				15303.60

Comparative Study of various Animals:-

Animal -	Cow	Buffalo	Goat	Sheep	Camel
Total	1743	2497	7239	1208	38
Male	95	158	2145	445	31
Female	1648	2339	5094	763	7
in milk	892	1326	5400	0	0



In spite of the large number of livestock, production is less hence increase in productivity across all species, is a major challenge. To reduce production of unproductive cattle and improve the productivity by improving the breeds by breeding management following activities will be taken up

- Castration
- Artificial insemination
- Distribution of superior Breeding bulls for use in Cattle and Buffalo
- Breeding distribution crossbred rams

Besides breed improvement other animal husbandry practices like better health, hygiene and feeding practices can increase productivity of livestock. Hence Activities like Animal health camps ,Urea-Molasses treatment demonstration ,demonstration of improved methods of conservation and utilization of Forage crops are proposed.

Table 2.8 Existing area under fodder (ha) Availability of fodder (quintals)

S.No.	Village	Types Of Grass (in Quintals)				Total
		Rajka	Kutr	Grass	Other	
1.	Ranigaon	00	24900	665	410	25975
2.	Chak -Ranigaon	00	617	6	4	627
3.	Siniya	00	10895	155	96	11146
4.	Mangalwa	00	7862	162	102	8126
5.	Baladhana	00	6393	132	82	6607
6.	Ucheriya Charan	00	4445	103	66	4614
7.	Khardiya	00	18179	359	230	18768
8.	Mundakheri	00	6823	171	105	7099
9.	Chhapara	00	18590	310	208	19108
10.	Mangalpura	00	5413	312	211	5936
11.	Jhalamaliya	00	19930	282	190	20402
	Total-	00	124047	2657	1704	128408

The table above shows there is fodder deficiency (Requirement is 153036 Qt. and availability 128408 Qt.)

To minimize the large and expanding gap between feed and fodder resource availability and demand there is need for

- Increase in area under fodder crops
- Increase in productivity of fodder crops
- Development of pastures
- And reduction in large number of livestock production through replacement by few but productive animals.

Table 2.9 Agriculture implements

1	2	3
S. No	Implements	Nos.
1	Tractor	36
2	Sprayers-manual/ power	13
3	Cultivators/Harrows	30
4	Seed drill	28

Farm mechanization and seed banks: As discussed earlier 59.61% land holdings belong to small and marginal farmers who own only 40.39% of total cultivated area so owning of big farm implements by individual farmers is not economical so SHG would be promoted to buy farm implements and rent to farmer

Table 2.10 NREGA Status - No. of Card Holder, activities taken so far, employment status.

Sr. no.	Name of village	Total No .of job cards	Employment Status	Activity taken up so far
1	Ranigaon	1475	73.23%	Talab, Villege Roads & Tanka
2	Chakranigaon			Talab, Villege Roads & Tanka
3	Siniya			Talab, Villege Roads & Tanka
4	Manglawala			Talab, Villege Roads & Tanka
5	Baladhana			Talab, Villege Roads & Tanka
6	Ucheriya			Talab, Villege Roads & Tanka
7	Khardiya	1075	74.65%	Talab, Villege Roads & Tanka
8	Mundakheri			Talab, Villege Roads & Tanka
9	Chhapara			Talab, Villege Roads & Tanka
10	Mangalpura			Talab, Villege Roads & Tanka
11	Jhalamaliya			Talab, Villege Roads & Tanka
	Total	2550		

Table 2.11 Migration Details

S.No.	Name of village	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Expected reduction in no. of persons migrating
1	Ranigaon	449	6 Months	Un employment	50%
2	Chakranigaon	5	8 Months	Un employment	60%
3	Siniya	257	9 Months	Un employment	50%
4	Manglawa	121	8 Months	Un employment	60%
5	Baladhana	177	6 Months	Un employment	50%
6	Ucheriya	67	8 Months	Un employment	60%
7	Khardiya	357	5 Months	Un employment	50%
8	Mundakheri	101	8 Months	Un employment	60%
9	Chhapara	351	6 Months	Un employment	50%
10	Mangalpura	112	8 Months	Un employment	60%
11	Jhalamaliya	145	8 Months	Un employment	50%
	Total	2142			

The migration can be check by creation of employment opportunities, enhancing farm level economy, increases the income of the people engaged in animal husbandry by dairy, poultry and marketing and value addition. (As discussed earlier) and diversification in livelihoods .

2.12 The existing livelihoods Village are given below :-

Name of activity	No of House holds	Average annual income in (Rs.)
Cultivators	1416	60,000.00
Dairying	992	36,000.00
Poultry	0	0.00
Piggery	0	0.00
Landless Agri. Labourers	76	36,000.00

Table 2.12(b) Major activities (Off Farm)		
Name of activity	Households/individuals	Average annual income in (Rs.)
Artisans	20	24000
Carpenter	23	36000
Blacksmith	15	36000
Leather Craft	29	54000
Porter	7	00
Mason	95	72000
Others specify (Cycle Repair)	9	30000
STD,Craft etc.	5	48000

The efforts for increase in income through off farm activities will be made under livelihood component through assistance to SHG or individuals

2.13 Existing SHG:-

Seven SHG's given below in Ranigaon Khardiya watershed area can start their own entrepreneur and support for their other livelihood activities. We can provide them those activities through the training programmes.

Some NGO's and other govt. organization gives training for some activities as given bellow –

- Dry Farming Training
- Handicraft related activities
- Biogas related activities
- Compost (Farm Yard Manure)
- Small cattle farm
- Milk collection booth
- Dairy

Table 2.13(a) Status of Existing SHG

S.No	Name of SHG	Members	Activity involved	Monthly income	Fund available	Assistance available	Source of assistance	Training received
1	Jai Balaji Self Help Group,	5	Tailoring	500	1500	No	No	No
2	Baba Ramdev Self Help Group	10	Dairy	500	1500	No	No	No
3	Jai Ganesh Self Help Group	5	Tailoring	500	1500	No	No	No
4	Jai Santoshi Maa Self Help Group	5	Dairy	500	1500	No	No	No
5	Jai Indra Baisa Self Help Group	5	Dairy	500	1500	No	No	No
6	Parshuram Self Help Group	5	Dairy	500	1500	No	No	No
7	Jai Bhavani Self Help Gorup	5	Dairy	500	1500	No	No	No

The table indicates existence of number of groups in the area also these need to be strengthened through trainings and financial assistance

II. Technical Features

Table 2.14 Ground Water

S.No	Source	No.	Functional depth (feet)	Dry	Area irrigated (Hac.)	Water availability(days)
i)	Dug wells	86	150-200	65	17.00	5 hours
ii)	Shallow tube wells	-	-	-	-	-
iii)	Pumping sets	-	-	-	-	-
iv)	Deep Tube Wells	26	450-550	03	-	8 hours
	Total	112		68		

Table 2.15 Availability of drinking water

S. No	Name of the village	Drinking water requirement Ltrs/day	Present availability of drinking water Ltrs/day	No. of drinking water sources available	No. functional	No. requires repairs	No. defunct
1	Ranigaon	47475	36555	28	8	12	8
2	Baladhna	11835	9349	5	1	2	2
3	Ucheria	3210	2568	6	2	2	2
4	Siniya	17430	13595	8	3	2	3
5	Mangalwa	6495	5001	7	2	3	2
6	Chak Ranigaon	540	432	1	1	-	-
7	Khardiya	26070	19552	25	10	5	10
8	Chapara	17850	13566	12	5	2	5
9	Mundakheri	7005	5533	7	3	2	2
10	Mangalpura	6180	4635	4	2	2	-
11	Jhilmaliya	23115	18029	10	7	1	2

Table 2.16 Slope details.

Slope of Watershed		
S.No.	Slope percentage	Area in hectares
1	0 to 1%	6633.00
2	3 to 8%	--
3	8 to 25%	--
4	> 25%	--

Table 2.17 Water Budgeting**Name of Cluster -Ranigaon Khardiya**

Geographical Area of watershed - 6633 Hac.

Table 2.17 a)Total available runoff(cum) use Stranges table

S.No.	Type of Catchment	Area in (Hac)	Yield Factor	Excepted Yield in cumec
1	Good Catchment	NA	NA	NA
2	Average Catchments	NA	NA	NA
3	Bad Catchments	NA	NA	NA
				NA

Present Utilization of yield in water shed

S.No.	Name of structure	Capacity in Cumec
i)	NA	NA
ii)	NA	NA
iii)	NA	NA
iv)	NA	NA
v)	NA	NA
vi)	NA	NA
vii)	NA	NA
viii)	NA	NA

Proposed various Activities and W H S to Present water to flow out water shed area

S.No.	Activities / structure	Utilization /capacity
1	NA	NA
2	NA	NA

Table 2.18 Soil details

Table (A) Soil depth:

Symbol	Name	Depth range (cm)
D5	Very deep	> 90

Table (B) Slope classes:

Symbol	Slope Class	Slope %	Reading of Abney Level
A	Gently sloping	1 – 3	35' - 1 ⁰ 44'

Table (c) Soil Texture:

Type	Particle size	Remark
Sand	0.05 – 2 mm	Particle visible

Soil Profile		
S.No.	Major Soil Classes	Area in hectares
1	sandy loam	6633.00
	Soil Depth :	
	Depth (Cms.)	Area in hectares
1	0.00 to 7.50	
2	7.50 to 45.00	
3	> 45.00	6633.00
	Soil fertility Status	Kg/ha
	N 10-15 per hac.	c;n =0.24
	P 10-12 per hac	13
	K 05 kg per hac.	200
	Micronutrients	PPM
	Zinc	0.6

Detail of soil Texture in project area :-

Soil type	Code	% Sand	% Silt	% Clay
Sand	S	80-100	0-20	0-20

Table (e) Land capability rating table:

Sr. No.	Description	Class I	Class II (in Project Area)	Class III	Class IV	Class V	Class VI	Class VII	Class VIII
1	Degree of limitation for use	Few	Moderate	Severe	Very severe	Few	Moderate	Severe	Very severe
2	Soil depth	Very deep	Deep	Moderate	Shallow	Very deep	Very shallow	Very shallow	Rock very
3	Slope	<1	1-3	3-5	5-15	<1	15-25	>25	Precipitous
4	Effect of erosion	e1	e1	e2	e3	e1	e4	e5	Precipitous

The analysis of table shows need to improve and maintain soil fertility. Soil health card to every farmer every crop season will be provided, which will include the recommendation for Application micro nutrient and fertilizers

Erosion status in project Area				
Cause	Type of erosion	Area affected (ha)	Run off(mm/year)	Average soil loss (Tonnes/ ha/ year)
Water erosion				
a	Sheet	3490	270	56
b	Rill	NIL	NA	NA
c	Gully	NIL	NA	NA
Sub-Total		3490	270	56
Wind erosion		2143	NA	NA
Total for project		6633	270	56

2.19 Soil erosion Details:-

The soil erosion is as detachment and transportation of soil particle from one place to another place through

The action of water and wind. This may be classified in four classes: -

1. Rain Drop Erosion: - The following rain drops detached soil particles and splash wet soil.
2. Sheet Erosion: - Removal of a thin layer of soil gradually calls sheet erosion.

The need is:

- To check land degradation
- To reduce excessive biotic pressure by containing the number and increase of livestock
- To check cultivation on sloping lands without adequate precautions of soil and water conservation measures
- To discourage cultivation along susceptible nallah beds
- To check Faulty agriculture techniques
- To check Uncontrolled grazing and developed cattle tracks
- To check Deforestation of steep slopes
- To check erosive velocity of runoff, store Runoff, to arrest silt carried by runoff and to recharge Ground Water structures like Earthen check dams, gully plugs, Bank Stabilisation, Loose stone check Dams, Gabions, Earthen embankment (Nadi) and Anicuts would be taken up.

CHAPTER - III

Proposed Development Plan: The Activities are indicative addition /deletion in activities will be as per local conditions

(A)Preparatory phase activities Capacity Building Trainings and EPA

The IEC activities like Group meetings, door to door campaign, slogans and wall writings etc. were carried out in all the habitations of IWMP RANIGAON - KHARDIYA Micro Watershed. A series of meetings were conducted with GP members, community and discussed about the implementation of IWMP programme. User groups were also formed.

Grama Sabhas were conducted for approval of EPA (Village), for selecting the watershed committee and approval of DPR.

S.no	Name of the Gram Panchayat	Date on which Grama Sabha approved EPA
1	2	3
1	Ranigaon	18 Jan 2012
2	Khardiya	19 Jan 2012

Photograph of Gram Sabha Approval at Khardiya & Ranigaon



Photograph of Gram Sabha Approval at Khardiya & Ranigaon



Photograph of Gram Sabha Approval at Ranigaon



DETAIL OF EPA ACTIVITIS PLANNED :-

1	2	3	4	5	6		7
S. No.	Names of Gram Panchayat	Area Hac.	Amount earmarked for EPA	Entry Point Activities planned	Estimated cost	Expenditure	Expected outcome
1	Ranigaon	2951.47	17.708	1-Tinshed in samsan Bhumi . 2- Tanka in Samsan Bhumi, Govt. School, Public Bhawan, Govt. Sub Centre, Pasture Bhumi, Aangan Bari Centre.	17.708	16.66	Village Public will happy and Trust to our Project activity & creavation of awareness
2	Khardiya	3681.53	22.09	1-Tinshed in samsan Bhumi . 2- Tanka in Samsan Bhumi, Govt. School, Public Bhawan, Govt. Sub Centre, Pasture Bhumi, Aangan Bari Centre.	22.09	20.97	Village Public will happy and Trust to our Project activity & creavation of awareness
	Total	6633.00	39.798		39.798	37.63	



Tanka Photograph of EPA work



Shamsan Shed Photograph of EPA work



NARA LEKHAN & WALL PANTING AT KHARDIYA

NARA LEKHAN & WALL PANTING AT RANIGAON



CAPACITY BUILDING :-

Table- List of approved Training Institutes for Capacity Building in the project area

1	2	3	4	5	6	7	8
S. No.	Name of Stakeholders	Name of the Training Institute	Full Address with contact no., website & e-mail	Name & Designation of the Head of Institute	Type of Institute #	Area(s) of speciali-zation\$	Accred ita-tion details
1	PIAs	IGPRS	JLN Marg,Jp	Dr. Vimlesh	Govt.	-	-
2	WDTs	IGPRS	JLN Marg,Jp	Dr. Vimlesh	Govt.	-	-
3	UGs	NGO	Kss,Parbats ar.	Mr. Nanuram	NGO	-	-
4	SHGs	NGO	Kss,Parbats ar.	Mr. Nanuram	NGO	-	-
5	WCs	NGO	Kss,Parbats ar.	Mr. Nanuram	NGO	-	-
6	GPs	NGO	Kss,Parbats ar.	Mr. Nanuram	NGO	-	-
7	Community	NGO	Kss,Parbats ar.	Mr. Nanuram	NGO	-	-
8	PM/SLNA	IGPRS	JLN Marg,Jp	Dr. Vimlesh	Govt.	-	-

Central govt. Dept./ State govt. Dept./ Autonomous Body/ Research Institutes/ Universities/ Others (pl. specify)

Capacity Building/ Agriculture/ Horticulture/ Animal Husbandry/ Pisciculture/ Remote Sensing/ Water conservation/ Ground water/ Forestry/ livelihoods/ entrepreneurship development/ others (pl. specify)

The training institutes must fulfil the conditions mentioned in the operations guidelines.

Table- Capacity Building activities in the project (PHYSICAL & FINANCIAL) 4% OF TOTAL PROJECT COST

:-

1	2	3	5						6						7					
			S. No.	Project Stakeholders	Total no. of persons	No. of persons to be trained during project period					No. of Training to be organized during project period					No. of person days to be trained during project period				
I year	II year	III year				IV year	V year	Total	I year	II year	III year	IV year	V year	Total	I year	II year	III year	IV year	V year	Total
1	PIAs	1	0	0	1	0	1	2	0	0	1	0	1	2	0	0	3	0	3	6
2	WDTs	4	0	3	4	4	4	15	0	1	1	1	1	4	0	9	12	12	12	45
3	UGs	3120	0	660	1050	1050	360	3120	0	22	35	35	12	104	0	660	2100	1050	720	4530
4	SHGs	1135	0	125	375	275	360	1135	0	5	15	11	15	46	0	250	750	550	720	2270
5	WCs	25	0	6	6	6	7	25	0	1	1	1	1	4	0	12	12	12	14	50
6	GPs	25	0	15	5	5	0	25	0	2	1	1	0	4	0	30	10	10	0	50
7	Community	800	0	200	200	200	200	800	0	2	2	2	2	8	0	200	200	200	200	800
8	EXPOSURE TOUR (INTER STATE)	300	0	0	100	100	100	300	0	0	1	1	1	3	0	0	600	600	600	1800
9	EXPOSURE TOUR (INTRA STATE)	150	0	0	50	50	50	150	0	0	1	1	1	3	0	0	350	350	350	1050
11	TOTAL PHYSICAL	5560	0	1009	1791	1690	1082	5572	0	33	58	53	34	178	0	1161	4037	2784	2619	10601
12	TOTAL FINANCIAL								0	8.88	13.50	11.635	5.7815	39.						

Table-, Education & Communication (IEC) activities in the project area Rs. 9.9495 (1% of total Project cost.)

1	2	3	4	5						6
<i>S. No.</i>	<i>Activity</i>	<i>Executing agency</i>	<i>Allocation out of 1% of total Project cost</i>	<i>Allocation in lacs</i>						<i>Expected Outcome (may quantify wherever possible)</i>
				<i>I year</i>	<i>II year</i>	<i>III year</i>	<i>IV year</i>	<i>V year</i>	<i>Total</i>	
1	मॉडल रुफटॉप वाटर हार्वेस्टिंग स्ट्रक्चर्स (पंचायत समिति ए राजीव गांधी सेवा केन्द्र या अन्य पंचायत समिति स्तरीय नजदीकी सरकारी भवन)।		0.20 1.99	0.0	0.0	1.0	0.99	0.0	1.99	
2	जलग्रहण क्षेत्र गतिविधियों को दर्शाता हुआ मॉडल।		0.10							
3	डीस्पले बोर्ड / प्लेगक्सी बोर्ड		0.995	0.00	0.00	0.70	0.295	0.00	0.995	
4	वॉल पेन्टिंग—जलग्रहण गतिविधियों, लक्ष्यो व प्राप्ति आदि को दर्शाती हुई ।		0.25 2.49	0.00	0.90	0.25	0.13	0.15	1.43	
5	जलग्रहण विकास संबंधी मुद्रित पम्पलेट्स / लिफ लेट्स / चार्ट / पोस्टर / आदि।			0.00	0.10	0.12	0.15	0.15	0.52	
6	नारा लेखन			0.00	0.12	0.13	0.15	0.14	0.54	
7	सफलता की कहानीयों की वीडियोग्राफी / फोटोग्राफी / लघुफिल्म एवं कृषको से साक्षरातकार / वार्ता ।		0.15	0.00	0.00	0.50	0.50	0.492	1.492	

8	निबन्ध व वाद-विवाद प्रतियोगिता		1.492	0.00	0.00	0.00	0.00	0.00	0.00	
9	रेडियो/दूरदर्शन पर वार्ता व विज्ञापन			0.00	0.00	0.00	0.00	0.00	0.00	
10	सांस्कृतिक त्यौहार / मेले आदि के अवसर पर प्रदर्शनी		0.10	0.00	0.00	0.15	0.10	0.14	0.39	
11	नुक्कड़ नाटक		0.994	0.00	0.00	0.00	0.05	0.05	0.10	
12	कटपुतली प्रदर्शन			0.00	0.00	0.15	0.20	0.154	0.504	
13	रात्रि गोष्ठी		0.20	0.00	0.00	0.15	0.10	0.14	0.39	
14	भू संरक्षण सप्ताह		1.989	0.00	0.00	0.10	0.15	0.05	0.30	
15	चेतना रैली			0.00	0.00	0.15	0.30	0.25	0.70	
16	जलग्रहण विकास का संदेश देने वाले सांस्कृतिक कार्यक्रम			0.00	0.00	0.10	0.05	0.05	0.20	
17	कृषक दिवस का आयोजन एवं क्षेत्र भ्रमण दिवस का आयोजन इत्यादि			0.00	0.00	0.15	0.20	0.099	0.399	
18	कुल		1%	0.0	1.12	3.65	3.365	1.815	9.95	

WAPCOS agency was assigned the work of preparing various thematic layers using Cartosat-1 and LISS-3 imageries for Creation, development and management of geo-spatial database depicting present conditions of land (terrain), water and vegetation with respect to watershed under different ownerships at village level

Various thematic layers provided by WAPCOS are :

- Delineation of Macro/Micro watershed boundaries.
- Digitised Khasara maps of the villages falling in project area.
- Network of Drainage lines, existing water bodies, falling in the project area.
- Base maps (transport network, village/boundaries, and settlements).
- Land Use / Land cover map.

Based on GIS thematic layers, Field visits , PRA and analysis of benchmark data (as discussed in chapter 2) final Treatment plan on revenue map for implementation has been framed. Thus each intervention identified has been marked on revenue map (map enclosed in DPR as annexure 89-106).The GIS based intervention map, PRA based intervention map are annexed as.

B) Livelihood Action Plan (LAP):

An awareness programme has been undertaken at Gram Sabha for communication & sensitization of the target beneficiaries. Livelihood Action Plan is a pre requisite for availing the funds under the livelihood component. LAP has been prepared by the PIA in consultation with WDT, WC & the members of SHG,SC/ST, women, landless/ assetless households. Details of funds available & their utilisation is as under :

- (i) Total project cost Rs.-994.95Lacs.
- (ii) Funds available under livelihood component is 9% of total project cost= Rs.-89.5455Lacs.
 - (a) Seed money for SHGs as revolving fund = Rs.-56.77 Lacs.
(minimum 60% of livelihood component)
No. Of SHG to be formed—227 Nos.
No of persons (members) in SHGs-5 to10 Nos.
 - (b) Seed money for enterprising individuals = Rs.-8.7745Lacs
(minimum 10% of livelihood component)
No of persons identified as enterprising individuals-35 Nos.
 - (c) Funds for Enterprising SHG/Federations of SHG
(Maximum 30 % of livelihood activities)= Rs.-24.00Lacs

The funding for major livelihood activities will enable the enterprising SHGs/SHG federation to avail a composite loan for undertaking major livelihood activities or to upscale activities as recommended by the WC & approved by WCDC in consultation with line departments.

C) Production Plan:

An awareness programme has been undertaken at Gram Sabha for communication & sensitization of the target beneficiaries. Production System & micro enterprises Action Plan is pre-requisite for availing the funds under the Production System & micro enterprises component. Production plan has been prepared by the PIA in consultation with WDT, WC & the members of Users Group. Details of funds available & their utilisation are as under:

(iii) Total project cost Rs.-994.95Lacs.

(iv) Funds available under Production System 10% of total project cost= Rs.-99.495Lacs.

List of Proposed Activities for production system

S.No	Name of Activity	Unit	Unit cost	Quantity	Cost of Activity in lacs
1.	Horticulture plantation	Ha	0.30	7	2.10
2.	Agro Forestry	Ha.	0.011	541	5.951
3.	Crop Demonstration	Ha.	0.05	745	37.25
4.	Vegetables / Kitchan Garden	No.	0.01	498	4.98
5.	Fodder Demonstration	Ha.	0.03	450	13.50
6.	COMPOST PIT	No.	0.005	392	1.96
	Total-				65.741

(viii) Funds for Animal Husbandary activities –33.755 lacs.

Details of is Animal Husbandary activities given below :

S.No.	Name of Activity	Quantity	Unit cost	Cost of Activity in lacs
1.	Medical camp	88	0.04	3.52
2.	A.I.Unit	2	0.19	0.38
3.	Bull	9	0.20	1.80
4.	Buffalo Bull	20	0.20	4.00
5.	Travis	4	0.06	0.24
6.	Animal shed unit for goat & sheep	35	0.20	7.00
7.	Animal shed unit for buffalos (chaff cutter, milk cane,& fodder demo. And compost pite.)	57	0.295	16.815
	Total-			33.755

Awareness Programme

-Slogan Wall Painting,

Scientific Animal Husbandry Practices ; Seminars / Debates / Pamphlet distribution/ Stickers/ Chetana Rally

Broadcasting / Telecasting Film Show

Visit- intra/ inter/ out of State/ Abroad

Fortnightly Meetings with Livestock keeper to discuss and decide all breedable females to be covered.

Creation Of Disease Free Zone: Livestock's health coverage

Establishment of Pashudhan Seva Kendra (PSK) (Convergence with peer department)

Deworming to reduce worm load and enhance disease resistance. (Convergence with peer department)

Distribution of mineral mixture. (Convergence with peer department)

Free of Cost Vaccination in IWMP area Livestock for H.S., B.Q., F.M.D., PPR, ETV and Sheep Pox.

Ensure Hygienic measures to check Zoonosis.(DAH/ IWMP)

Construction of Animal Sheds with Manger and Portable Manger With accessories

Provision of Cattle Water Troughs.

Infertility Management: To ensure Livestock's Productivity

Expansion of AI Coverage/ reduction in no.of infertile females.

PCPD+ COMBAT INFERTILITY+ CAMPS INFERTILITY RLDB+ CAMPS INFERTILITY SC COMPONENT

Breed Improvement: To ensure Livestock's Productivity enhancement

A.I. (Convergence with peer department)

Incentive based Mass Castration at Door Step of Scrub Bulls to Check ND Recycling.

Registration of bulls (Convergence with peer department)

Bull / Buck Distribution for NS-Gir, Murrah And Sirohi /Jamunapari Breed Bulls/ Bucks Should Be Distributed For 3yrs 6 (3 In Each Iwmp Area, Where Ever A.I. Facility Is Not Available Round's O Clock. On 100% Subsidized Rate To WC.

Financial Incentive to the Inseminator for Calf Borns.

Convergence with peer Department/DAH/Agriculture/ATMA/ Board/ Trust/ Goseva

An Assistance to control Malnutrition: Protein Supplementation

Feed & fodder production enhancement.

ANNUAL ACTION PLAN : PIA will prepare annual action plan in the month of January indicating outgoing liabilities as well as new projects which they wish to take during next financial years & will submit to PM(WCDC). These plans will be placed for approval at P.S. (Standing Committee of Production and Agriculture) & Z.P. (Standing Committee of Production) level every year. While preparing Annual Action Plan (AAP) if rates of labour or material in DPR increased or decreased changed rates will be applicable for preparing AAP & the effect of same can be met by converging the remaining works with other scheme.

CHAPTER -IV

Activity wise Total Abstract of cost:-

Activity	Unit	Quantity	Unit cost	Total cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution*
Adman.	10%	-	-	99.495	99.495	-	-
Monitoring	1%	-	-	9.950	9.950	-	-
Evaluation	1%	-	-	9.950	9.950	-	-
EPA	4%	-	-	39.798	39.798	-	-
I & C B	5%	-	-	49.746	49.746	-	-
DPR	1%	-	-	9.950	9.950	-	-
Consolidation	3%	-	-	29.8485	29.8485	-	-
Total (PIA)	25%	-	-	248.7375	248.7375	-	-
Arable Conservation (56%)							
Tanka	No.	688	1.00	688.00	539.00	149.00	53.90
Nonable Conservation							
Afforestation / Pasture Dev.	Ha.	51.92	0.35	18.172	18.172	-	-
Production & Micro Enterprises for arable land (10%)							
Horticulture	Ha.	7	0.30	2.10	2.10	-	0.315
Agro Forestry	Ha.	541	0.011	5.951	5.951	-	0.892
Vegetable / Kitchen garden	No.	498	0.010	4.98	4.98	-	0.747
Crop Demonstration	Ha.	745	0.05	37.25	37.25	-	5.587
Compost Pit	No.	392	0.005	1.96	1.96	-	0.294
Fodder Demonstration	Ha.	450	0.030	13.50	13.50	-	2.025
Livestock	-	-	-	33.755	33.755	-	3.571
Total:-	-	-	-	99.496	99.496	-	13.431
Livelihood (9%)							
S H G	No.	227	0.25	56.77	56.77	-	-
Individual	No.	35	0.25	8.7745	8.7745	-	-
Federation	No.	12	2.0	24.00	24.00	-	-
Total (WC)	-	-	-	-	746.2125	-	-
Grand Total	-	-	-	1143.95	994.95	-	67.331

Proposed Development Plan

(A)	Preparatory phase activities capacity building trainings & EPA																
Activity	Unit	Unit Cost	GP1 RANIGAON					GP2 KHARDIYA					Total				
			Quantity	Total Cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution	Quantity	Total Cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution	Quantity	Total Cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution
Admn.					44.77					54.725						99.495	
Monitoring					4.48					5.47						9.950	
Evaluation					4.48					5.47						9.950	
EPA					17.708					22.09						39.798	
I & CB					22.38					27.366						49.746	
DPR					4.48					5.47						9.950	
Total (A)					98.298					120.591						218.889	
(B)	Natural resource management (56%)																
Conservation measures for arable land(private land)							24.00					29.90				53.90	
Tanka	NO	1.00	240	320.00	240.00	80.00	towards WDF	299	368.00	299.00	69.00	5-10% towards WDF	688	688.00	539.00	149.00	towards WDF
Conservation measures for non arable land:-																	
Pasture Development	Ha	0.35	24	8.4	8.4	-	0	27.92	9.772	9.772	0	-	51.92	18.172	18.172		
Total (B)	—	—	-	328.40	248.40	-	-		377.772	308.772	-	-	-	706.172	557.172		

(C)

Production System

Production & Micro Enterprises (10%)

Horticulture plantation	Ha	0.30	3	0.90	0.90		4	1.20	1.20		7	2.10	2.10	
Agro Forestry	Ha.	0.011	244	2.684	2.684		297	3.267	3.267		541	5.951	5.951	
Crop Demonstration	Ha.	0.05	335	16.75	16.75		410	20.50	20.50		745	37.25	37.25	
Vegetables / Kitchan Garden	No.	0.01	224	2.24	2.24		274	2.74	2.74		498	4.98	4.98	
Fodder Demonstration	Ha.	0.03	202	6.06	6.06		248	7.44	7.44		450	13.50	13.50	
COMPOST PIT	No.	0.005	177	0.885	0.885		215	1.075	1.075		392	1.96	1.96	
Medical camp	No.	0.04	40	1.60	1.60		48	1.92	1.92		88	3.52	3.52	
A.I.Unit	No.	0.19	1	0.19	0.19		1	0.19	0.19		2	0.38	0.38	
Bull	No.	0.20	4	0.80	0.80		5	1.00	1.00		9	1.80	1.80	
Buffalo Bull	No.	0.20	9	1.80	1.80		11	2.20	2.20		20	4.00	4.00	
Travis	No.	0.06	2	0.12	0.12		2	0.12	0.12		4	0.24	0.24	
Animal shed unit for goat & sheep	No.	0.20	15	3.00	3.00	10-20% towards project cost on WDF (6.026)	20	4.0	4.0	10-20% towards project cost on WDF (7.405)	35	7.00	7.00	10-20% towards project cost on WDF (13.431)
Animal shed unit for buffalo & cow	No.	0.295	26	7.67	7.67		31	9.145	9.145		57	16.815	16.815	
TOTAL:-				44.699	44.699			54.797	54.797			99.496	99.496	

Livelihood system 9%															
Revolving Fund to S.H.G (60% Minimum)	No.	0.25	103	25.77	25.77		124	31.00	31.00			227	56.77	56.77	
Revolving Fund to enterprising individual(10% maximum)	No.	0.25	15	3.7745	3.7745		20	5.00	5.00			35	8.7745	8.7745	
Grant in aid to enterprising SHG or Federation of SHGindividual(30 %max)	No	2.00	5	10.00	10.00		7	14.00	14.00			12	24.00	24.00	
Total livelihood				39.5445	39.5445			50.00	50.00					89.5445	
(D) Consolidation			13.0985	13.0985		16.75	16.750				29.8485	29.8485			
Grand Total				524.04	444.04	30.026	619.91	550.91	37.305			1143.95	994.95		67.331

CHAPTER – V

Annual Action Plan : The project period can vary from 4 to 7 years and accordingly the table given below be prepared. Also the activities mentioned below are indicative and can vary from project to project. Also this if PIA feels necessary to make it GP Wise it can add pages.

Through Project Fund

(A)	Preparatory phase activities capacity building trainings & EPA															
Activity	Unit	Quantity	Unit Cost	Total cost	1st year		2nd year		3rd year		4th year		5th year		6th year	
					Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Admn.				99.495		0		14.925		19.90		24.87		19.90		19.90
Monitoring				9.95		0		1.99		2.4875		2.4875		0.995		1.99
Evaluation				9.95		0		00		0.995		3.98		0.00		4.975
EPA				39.798		0		39.798		0.00		00		00		00
I & CB				49.746		0		19.8989		9.9492		9.9492		9.9492		0.00
DPR				9.95		0		9.95		0.00		0.00		0.00		0.00
Total (A)				218.889		0.00		86.5614		33.3317		41.2867		30.8442		26.865
(B)	Natural resource management (56%)															
Conservation measures for arable land(private land)																
Tanka	No.	539	1.00	539.00	0	0.00	0	0.00	192	192.00	241	241.00	106	106.00	0	0.00
Conservation measures for non arable land:-																
Pasture Development	Ha	51.92	0.35	18.172	0	0.00	0	0.00	18.50	6.48	23	8.05	10.42	3.642	0	0.00
Total (B)			---	557.172	---	0.00	--	0.00	----	198.48	----	249.05	---	109.642	-----	0.00

(C)

Production System (10%)

Production & Micro Enterprises for arable land :-

Horticulture plantation	Ha	7	0.30	2.10	0	0.00	0	0.00	1.4	0.42	2.45	0.735	2.45	0.735	0.7	0.21
Agro Forestry	Ha.	541	0.011	5.951	0	0.00	0	0.00	108	1.188	190	2.09	190	2.09	53	0.583
Crop Demonstration	Ha.	745	0.05	37.25	0	0.00	0	0.00	149	7.45	261	13.05	260	13.00	75	3.75
Vegetables / Kitchen Garden	No.	498	0.01	4.98	0	0.00	0	0.00	100	1.00	174	1.74	174	1.74	50	0.50
Fodder Demonstration	Ha.	450	0.03	13.50	0	0.00	0	00	90	2.70	157	4.71	158	4.74	45	1.35
COMPOST PIT	No.	392	0.005	1.96	0	0.00	0	0.00	78	0.39	136	0.68	136	0.68	42	0.21
Medical camp	No.	88	0.04	3.52	0	0.00	0	0.00	9	0.36	31	1.24	31	1.24	17	0.68
A.I.Unit	No.	2	0.19	0.38	0	0.00	0	0.00	1	0.19	1	0.19	0	0.00	0	0.0
Bull	No.	9	0.20	1.80	0	0.00	0	0.00	1	0.20	3	0.60	3	0.60	2	0.40
Buffalo Bull	No.	20	0.20	4.00	0	0.00	0	0.00	4	0.80	7	1.40	7	1.40	2	0.40
Travis	No.	4	0.06	0.24	0	0.00	0	0.00	1	0.06	2	0.12	1	0.06	0	0.00
Animal shed unit for goat & sheep	No.	35	0.20	7.00	0	0.00	0	0.00	7	1.40	12	2.40	12	2.40	4	0.80
Animal shed unit for buffailo	No.	57	0.295	16.815	0	0.00	0	0.00	11	3.245	20	5.90	20	5.90	6	1.77
TOTAL-				99.496	0	0.00	0	0.00	--	19.403	--	34.855	--	34.585	--	10.653

<u>livelihood 9 %</u>																
Revolving Fund to S.H.G (60% Minimum)	No.	227	0.25	56.77	0	0.00	0	0.00	37	9.25	88	22.00	88	22.00	14	3.52
Revolving Fund to enterprising individual(10% maximum)	No	35	0.25	8.7745	0	0.00	0	0.00	6	1.50	13	3.25	13	3.25	3	0.7745
Grant in aid to enterprising SHG or Federation of SHGs individual(30%max)	No	12	2.00	24.00	0	0.00	0	0.00	2	4.00	4	8.00	4	8.00	2	4.00
Total livelihood	----	--	---	89.5445	0	0.00	0	0.00		14.75		33.25		33.25		8.2945
(D) Consolidation	---	-----	----	29.8485	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	29.8485
Grand Total				994.95				86.5614		265.9647		358.4417		208.3212		75.661

Annual Action Plan (Through Convergence)

(A)	Preparatory phase activities capacity building trainings & EPA																	
Activity	Unit	Quantity	Unit Cost	Total cost	1st year		2nd year		3rd year		4th year		5th year		6th year			
					Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin		
Admn.																	10%	
Monitoring																	1%	
Evaluation																	1%	
EPA																	4%	
I & CB																	5%	
DPR																	1%	
Total (A)																		
(B)	Natural resource management(56%)																	
Conservation measures for arable land																		
Tanka	No.	149	1.00	149.00	0	0.00	0	0.00	35	35.0	56	56.0	58	58.0	0	0.00		
Total (B)	No.	149	1.00	149.00	0	0.00	0	0.00	35	35.00	56	56.0	58	58.0	0	0.00		

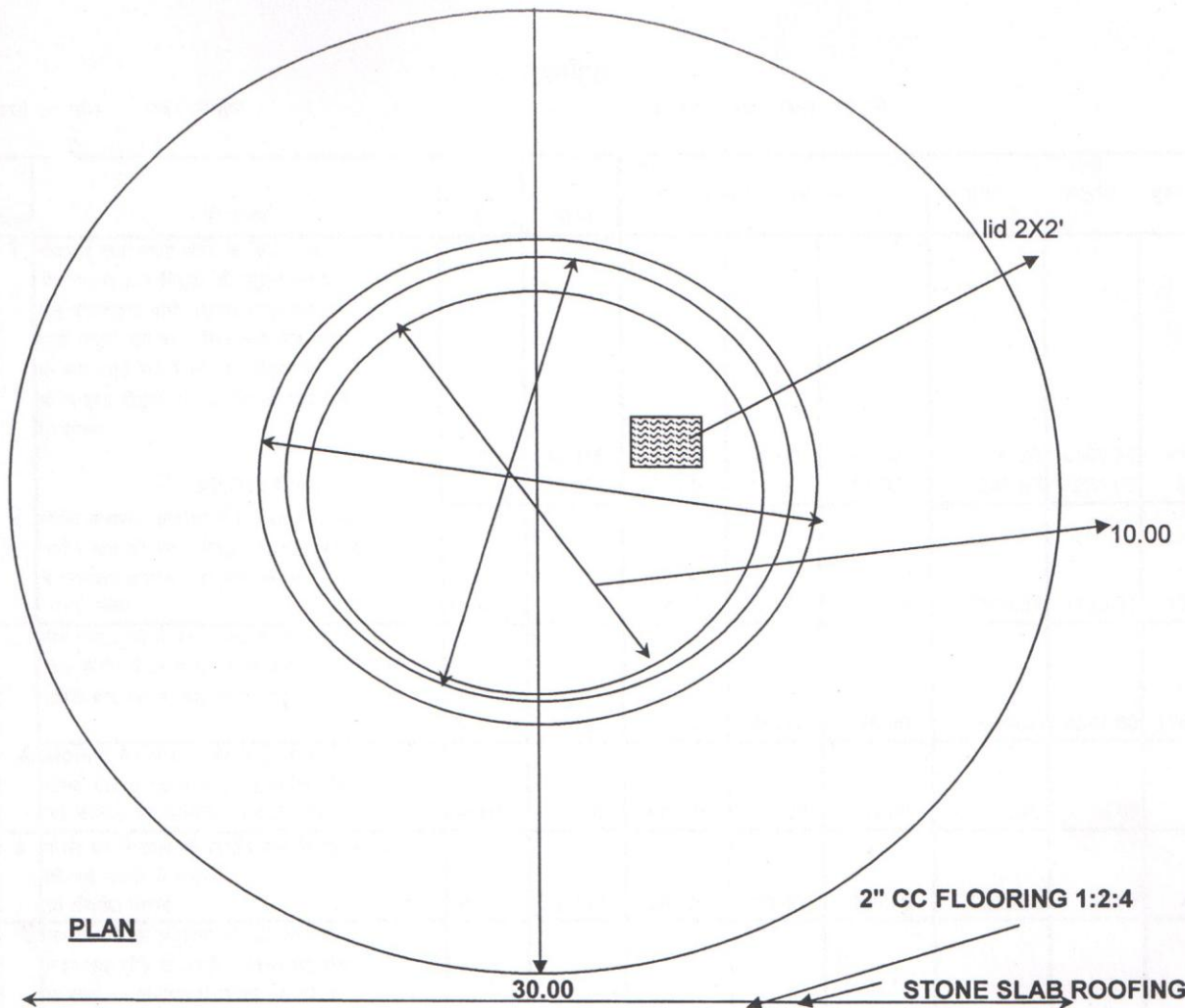
CHAPTER – VI EXPECTED OUT COMES

1	2		3	4	5	6
S. No.	Item		Unit of measurement	Pre-project Status	Expected Post-project Status	Remarks
1	Status of water table (Depth to Ground water level)		Meters	138	137	
2	Ground water structures repaired/ rejuvenated		No.	—	—	
3	Quality of drinking water		Description	Flouride water	Non flouride	
4	Availability of drinking water		Description	8 Months	11 Months	
5	Change in irrigated Area		Ha	0.54%	2.25%	
6	Change in cropping/ land use pattern		Description	—	—	
7	Area under agricultural crop					
	I	Area under single crop	Ha	5402.14	5877	
	ii	Area under double crop	Ha	17	98	
	iii	Area under multiple crop	Ha	—	—	
8	Change in cultivated Area		Ha	5419.14	5960	
9	yield of major crops of area	Yield of Bajra	q/ha	11.25	11.75	
		Yield of Guavr	q/ha	8.50	9.00	
		Yield of Moong	q/ha	9.00	10.00	
		Yield of Moth	q/ha	6.50	7.00	
		Yield of Chawla	q/ha	2.80	3.10	

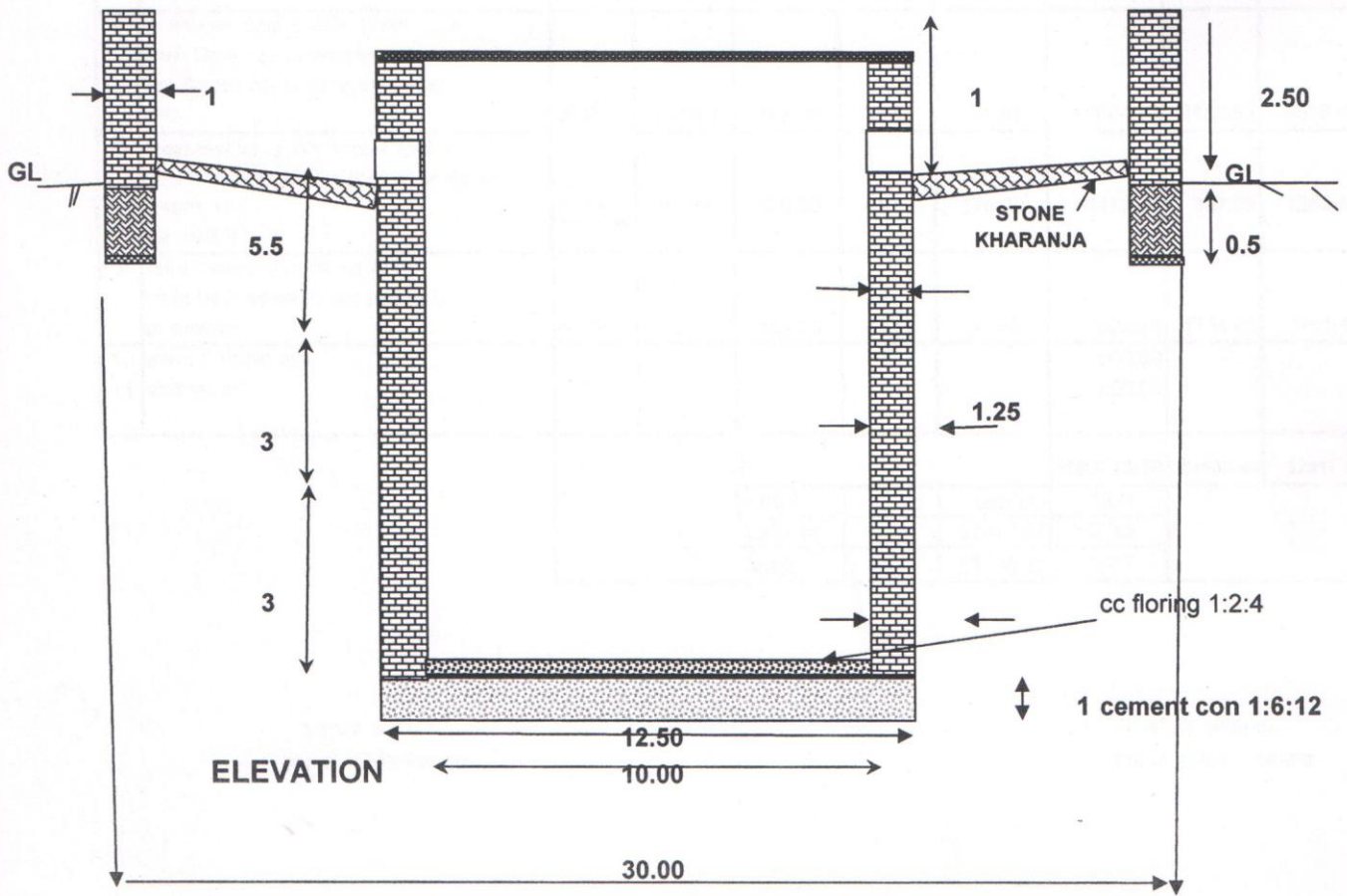
	Yield of Wheat	q/ha	19.00	20.00	
	Yield of Barly	q/ha	11.00	11.50	
	Yield of Musturd	q/ha	9.00	9.50	
10 production of major crops of area	Production of Bajra	Ton	4182.75	4368.65	
	Production of Guavr	Ton	978.35	1036.02	
	Production of Moong	Ton	303.3	337.00	
	Production of Moth	Ton	100.10	107.80	
	Production of Chawla	Ton	11.76	13.02	
	Production of Wheat	Ton	10.32	10.86	
	Production of Barly	Ton	3.30	3.45	
	Production of Musturd	Ton	7.71	8.14	
11	Area under vegetation	Ha	0.00	45.00	
12	Area under horticulture	Ha	0.00	7.00	
13	Area under fuel	Ha	18.00	54.00	
14	Area under Fodder	Ha	250.00	450.00	
15	Fodder production	Q	128408.00	154050.00	
16	Milk production	Litres/day	7618.00	9141.00	
17	SHGs Active	No.	7	227	
18	No. of livelihoods	No.	0	35	
19	Migration	No.	2142	850	
20	SHG Federations formed	No.	0	12	

क्र०सं०	विवरण	नं०	ल० चौ० उ०			मात्रा		
			ल०	चौ०	उ०	घ.फु.	घ.मी.	
1	नीव, खई तथा नाला आदि के लिये 1-5 मी० गहराई तक मिट्टी की खुदाई करना तल को कुटना पानी डालना बगल संवारना खुदी मिट्टी को बहार निकालना नीव भरने के बाद खली सीतों को पुनः मीट्टी से भरना तथा मिट्टी को 50 मी० की दूरी तक निस्तारण	1/4	D ₀	D ₀	H _{FT}	टाका		
			[(D ₀ +D ₁)/2]	t	H _{Fp}	पाइथन		
			0.785	12.5	12.5	11.0	1349.219	
			0.785	30.0	30.0	1.5	1059.750	
		सख्त paythan	0.785	28.000	28.000	-1.5	-923.160	
			TOTAL				1485.809	42.115
			extra lift I					21.06
		extra lift II					0.00	
		extra lift III					0.00	
		2	सीमेन्ट कंकरीट नीव में 40 एम०एम० नामीय माप की पत्थर गिट्टी 1:5:10 अनुपात में मिलाकर डालना तथा कुटाई करना तराई समेत	1/4	D ₀	D ₀	H _{CT}	टाका
[(D ₀ +D ₁)/2]	t				H _{CP}	पाइथन		
0.79	12.50			12.50	0.75	91.992		
0.79	30.00			30.00	0.50	353.250		
(-)	0.785			28.000	28.000	-0.5	-307.720	
Total				137.522	3.90			
3	नीव तथा कुर्सी में पत्थर कव वे रद्धा-डोका 1:6 सीमेन्ट मोर्टर में चुनाई मय बगल की झीरी बन्द करना तथा तराई आदि	1/4	[(W ₁ +D ₁)]	W ₁	H ₁			
			[(W ₁ +D ₁)]	W ₂	H ₂			
		(-)	1/4	[(W ₁ +D ₁)]	W ₃	H ₃		
			1/4	[(D ₀ +D ₁)/2]	W ₃	h		
		0.785	12.500	12.50	12.5	1533.203		
		0.785	-10.00	-10.00	-12.50	-981.250		
		0.785	30.00	30.00	2.50	1766.250		
		(-)	0.785	28.000	28.000	-2.50	-1538.600	
		0	0.00	0.00	0.00	0.000		
		(-)	0	0.00	0.00	0.00	0.000	
Total				779.603	22.1			
4	अधिरचना में पत्थर या ईट में चुनाई कार्य सीमेंट मसाला 1:6 में 4-5 मी० उचाई तक 30 समी० से अधिक मोटाई तक	1/4	[(W ₁ +D ₁)]	W ₃	H _s			
			1/4	[(D ₀ +D ₁)/2]	W ₃	h		
		0.785	0.000	12.000	10.00	0.000		
0.785	0.000	10.000	10.00	0.000				
5	पत्थर का सिरदल की आपूर्ति कव चिनाई में उपयोग की गई मसाले में लगाना 50 मी०मी० मोटाई	2.0	12.500	1.000		25.00	2.33	
6	अव्वल दर्जे की पट्टीयों की छत डालना उपर तथा नीचे से जोड़ों में पत्थर की चीप के साथ 1:4 अनुपात में सीमेन्ट मसाले से भरना	1/4	D ₀	D ₀		122.656	11.41	
			0.785	12.5	12.5			
7	50 एम०एम० मोटाई में सीमेंट कंकरीट 1:2:4 मिश्रण जिसमें 12/20 एम०एम० नापीय गिट्टी के साथ मिलाकर डालना कुटना दबाना तराई समेत	1/4	D ₁	D ₁		78.500		
			1/4	D ₀	D ₀			
		अन्दर	0.785	10.00	10.00		615.440	
		बाहर	0.785	28.00	28.00			
			0.000	0.00	0.00		0.000	
	0.000	0.00	0.00		0.000			
Total				693.940	64.55			

8	वेरघट्टा पत्थर का 23 सेमी0 उचाई में खडंजे का होदा में से निकली अतिरिक्त मिट्टी का 50 मी0 तक निस्तारण करना	$\pi / 4$	$(D_{IP})^2 - D_0^2$					
			0.785	28.00	28.00	0.50	307.72	
			0.785	12.50	-12.50	0.50	-61.328125	
			Total				246.392	6.9839
9	सीमेंट प्लास्टर दीवार पर 1:3 सीमेंट मोर्टर जोडो का कुरेदने तथा तराई समेत 25 एम0एम0 बाहर 20 एम0एम0 12 एम0एम0 अन्दर पाइथन बाहर अन्दर	π	D_0	D				
			0	0	0	0.000		
			D_1	$H_1 + H_2 + H_3 + H_s$				
			3.14	10	12.50	392.500		
			3.14	12.50	1.00	39.250		
			3.14	28.00	1.00	87.920		
			3.14	30.00	2.00	188.400		
			3.14	27.00	1.00	84.780		
			Total				792.85	73.75
			10	ढक्कन व पीवीसी पाईप				
11	फोटो एवं बोर्ड					500		



PLAN



ELEVATION

तकमीना

कार्य का नाम- टांका निर्माण

योजना- आई. डब्ल्यू. एम. पी.

क्र.सं.	विवरण	ई.	मात्रा	दर			राशी		
				अकुशल	कुल श्रम	कुल	कुल	अकुशल	कुल श्रम
1	नीव,खई तथा नाला आदि के लिये 1-5 मी0 गहराई तक मिट्टी की खुदाई करना तल को कुटना पानी डालना बगल संवारना खुदी मिट्टी को बहार निकालना नीव भरने के बाद खली सीनों को पुनः मिट्टी से भरना तथा मिट्टी को 50 मी0 की दूरी तक निस्तारण	घन मी0	42.115	99.00	99.00	99.00	4169.36	4169.36	4169.36
			सख्त अतिरिक्त लिफ्ट	21.057	11.00	11.00	11.00	231.63	231.63
2	सीमेंट कंकरीट कंकरीट नीव में 40 एम0एम0 नामीय माप की पत्थर गिट्टी 1:5:10 अनुपात में मिलाकर डालना तथाकुटाई करना तराई समेत	घन मी0	3.898	1928.00	313.11	358.00	7515.37	1220.51	1395.49
3	नीव तथा कुर्सी में पत्थर कव वे रद्धा-ढोका 1:6 सीमेंट मोर्टर में चुनाई मय बगल की झीरी बन्द करना तथा तराई आदि	घन मी0	22.098	1909.00	205.80	525.00	42184.30	4547.68	11601.24
4	अधिरचना में पत्थर या ईट में चुनाई कार्य सीमेंट मसाला 1:6 में 4-5 मी0 उचाई तक 30 समी0 से अधिक मोटाई तक	घन मी0	0.000	2085.00	211.25	701.00	0.00	0.00	0.00
5	पत्थर का सिरदल की आपूर्ति कव चिनाई में उपयोग की गई मसाले में लगाना 50 मी0मी0 मोटाई	वर्ग मी0	2.326	956.00	29.40	205.00	2223.26	68.37	476.74
6	अवल्ल दर्जे की पट्टीयों की छत डालना उपर तथा नीचे से जोड़ों में पत्थर की चीप के साथ 1:4 अनुपात में सीमेंट मसाले से भरना	वर्ग मी0	11.410	1131.00	14.70	299.00	12904.55	167.72	3411.55
7	50 एम0एम0 मोटाई में सीमेंट कंकरीट 1:2:4 मिश्रण जिसमें 12/20 एम0एम0 नापीय गिट्टी के साथ मिलाकर डालना कुटना दबाना तराई समेत	वर्ग मी0	64.553	247.00	33.81	101.00	15944.48	2182.52	6519.81
8	वेरघट्टा पत्थर का 23 सेमी0 उचाई में खडंजे का होदा में से निकली अतिरिक्त मिट्टी का 50 मी0 तक निस्तारण करना सुखे पत्थरों में	घन मी0	6.984	876.00	44.10	179.00	6117.89	307.99	1250.12
9	सीमेंट प्लास्टर दीवार पर 1:6 सीमेंट मोर्टर जोड़ों का कुरेदने तथा तराई समेत 20 एम0एम0	वर्ग मी0	73.753	102.00	23.52	51.00	7522.86	1734.68	3761.43
10	ढक्कन व पीवीसी पाईप						900.00		
11	फोटो एवं बोर्ड						500.00		
योग							100213.70	14630.46	32817.37
							Total	100213.70	1.00
							Labaur	32817.37	0.33
							Mate	67396.33	0.67

सहायक अभियन्ता
पंचायत समिति मकराना

कनिष्ठ अभियन्ता
पंचायत समिति, मकराना

Estimate For Pasture Development

Variety - Dhaman Grass

Area - 1.0 Ha.

Name of Work - Pasture Development

Length of Fencing 200Mt.

S.No.	Item	Quantity	Unit	Rate in Rs	Amount Rs.
1	Fencing :Ditch Fencing 1.2 m deep, 1.5m Wide at top and 0.90 widest bottom includes dressing (Vol. per running meter M = 1.44 cm)				
	A) Sandy loamsoil60%	172.80	Cum.	61.70	10661.76
	B) Hard soil between 10to 40% boulder	155.2	Cum.	72.00	11174.40
2	Revoval of unwanted bushes digging out the stumps to clean the area	1	Ha.	850.50	850.50
3	Ploughing : Twice plough with Tractor in pasture development area	1	Ha.	2532.60	2532.60
4	Seed Rate & cost	6	Kg.	100.00	600.00
5	Sowing of grass seeds by sprinkling & conversing in the area which has already been ploughed	1	Ha.	135	135.00
6	Watch & Work	1	12 Month	2808	2808.00
7	Earth work Excavation in hard soil up to 1.5mt. Height and deposited excavated material lead up to 50 (1000X0.5X0.30X0.60)	90	Cum.	61.70	5553.00
8	Making of balls of grass seed (1:1:2:2) One Grass seed: One FYM: Two Sand: Two Clay	5	Kg.	17.00	85.00
9	Showing of balls of grass seed by dibbling method at 30 Cm. Spacing.	5	Kg.	109.00	145.00
10	Cost of seed	5	Kg.	100.00	500.00
				Total	35045.26
				Say Rs.	35000.00

Model Estimate of Horticulture

Area - 0.5Ha.

Cost per plant

No of per 0.5 Ha. Plants - 139

S.No.	Description	Year	No. / Year	Length	Width	Height	Qty.	Unit	Rate	Amount (in Rs.)	Amount for 139 plants (in Rs.)
1	Diging of pit		1	0.9	0.9	0.9	0.73	Cum.	61.70	45.041	6260.70
2	Apply of manure										0
	(A) Compost Khaad	-	-	-	-	-	5.00	Kg.	0.4	2.00	278
	(B) s.s.p. (16%)	-	-	-	-	-	1.00	Kg.	4	4.00	556
	(C) Endosulphan (4%)	-	-	-	-	-	0.10	Kg.	30	3.00	417
3	Mixing with soil & filling pit	-	1	0.9	0.9	0.75	0.61	Cum.	27	16.40	2279.95
4	Plant cost	-	1	-	-	-	1.00	No.	10	10.00	1390.00
5	Planting tree	-	-	-	-	-	1.00	No.	2.2	2.20	305.80
6	Weeding & hoeing	3	1	-	-	-	3.00	No.	0.9	2.70	375.30
7	Sprey										0
	(A) Endosulphan (35ec)	3	0.01	-	-	-	0.03	Ltr.	280	8.40	1167.60
	(B) sulpher	3	0.02	-	-	-	0.06	Kg.	200	12.00	1668
8	Trancepotstion of plant from jodhpur 100 km including loading and unloading						1.00	NO.	1.25	1.25	173.75
	TOTAL									107.00	14872.1

Add 3% contingency - 446.00

Total Rs. - 15318.10
Say Rs.- 15000.00

Estimate For Agro Forestry

Name of Work - Agro Forestry

Area 1 Ha.

S.No.	Details of Work	Quantity	Unit	Rate in Rs	Amount Rs.
1	Excavation of Earthwork in Soft Soil for Digging of Pits, 0.45x0.45x0.45=0.0911x60	5.466	Cum.	61.70	337.25
2	Treatment of Pits				
	A. Through Chemicals	60	No.	0.41	24.60
	B. Through Manures	60	No.	0.20	12.00
3	Planting of Plant with Re-handling up to 100 Mt. refilling of soil and compaction etc.	60	No.	5.50	330.00
4	Cost of plant including transportation	60	No.	5.00	300.00
5	Cost of manures including transportation	60	No.	1.00	60.00
	Total				1063.85
	Contingency 3%				31.91
Grand Total					1095.77

Say Rs. 1100.00

PARTICIPATRY CROPS DEMONSTRATIONS

Crops :-		Bajra, Moong, and any other demand by the community.							
क. स.	गतिविधि	प्रकार	युनिट	दर (रु)	प्रति हेक्टेयर		प्रदर्शन हेतु(0.50हे.)		विवरण
					मात्रा	राशि	मात्रा	राशि	
1	भूमि उपचार	एण्डोसल्फोन 4% चूर्ण	k.g	31/-kg.	25	775.00	12.50	387.50	
2	बीज	दाने हेतु	k.g	25/-kg.	3	75.00	1.50	37.50	
3	बीज उपचार								
(I)		थाइराम	gm.	23	3	69.00	1.50	34.50	
(II)		गंधकचूर्ण	gm.	110	4	440.00	2	220.00	
(B.)	कल्चर								
(I)	ऐजोटोवेक्टर	तीन पेकैट पर्याप्त	No.	15/Each	3	45.00	1.50	22.50	
(II)	PSM.	तीन पेकैट पर्याप्त	No.	15/Each	3	45.00	1.50	22.50	
3	उर्वरक								
(I)	डी.ए.पी.			25/kg.	99	2475.00	49.50	1237.50	
(II)	यूरिया			7/kg.	186	1302.00	93	651.00	
TOTAL						5226.00		2613.00	

Say Rs. 5000.00

Estimate For Fodder Demostration

Name of Work - Fodder Demonstration

Area 1 Ha.

Name of Crop - Bajra

Variety Raj Chari- I
Raj Chari-II

S.No.	Item	Quantity	Unit	Rate in Rs.	Amount Rs.
1	Seed Supply	25	Kg	20.00	500.00
2	Supply of Urea (N)	100	Kg	7.00	700.00
3	D.A.P. Supply	66	Kg	25.00	1650.00
4	Transportation	—	—	—	150.00
				Total	3000.00

Name of Work:- Estimate of Animal shed,Chap Cutter with Manger.

क्र. सं.	कार्य विवरण	सं.	ल.	चौ/मी.	ग./ऊँ	मात्रा	इकाई	श्रमिक दर		कुल दर सामग्री सहित	कुल लागत	
								अकुशल श्रम	कुल श्रम			
1	नींव, खाई, परनाला में 1.5 गहराई तक मिट्टी की खुदाई करना, तल को कूटना, पानी डालना, बगल को संवारना, पानी डालना, बगल को बाहर निकालना, नींव भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर की दूरी तक निस्तारण करना। साधारण/मुलायम मिट्टी में।	4	1.50	1.50	1.50	13.50	घन फी					
								घन मी.	73.50	81.00	81.00	30.95
							0.38					
2	सीमेन्ट कंक्रीट नींव या फर्श में 40 मि.मी. नापीय माप की पत्थर मिट्टी सीमेन्ट- रेत मसाला में 1 सीमेन्ट : 4 रेत : 8 मिट्टी के अनुपात में मिलाकर डालना तथा कुटाई करना, तराई समेत।	4	1.50	1.50	0.50	4.50	घन फी					
								घन मी.	313.11	356.00	2154.00	274.31
							0.13					
3	नींव तथा कुर्सी में पत्थर की वे रखा ढोका सीमेन्ट ' बजरी 1:6 मसाले में, मय बगल की झिरी बन्द करना तथा तराई आदि। अतिरिक्त जोड़ें अथिरेचना पत्थर की घिनाई में आईटम 22 से 25 तक 30 से.मी. या 30 से.मी. से कम मोटाई के लिय शैड व मैन्जर	4	1.00	1.00	1.00	4.00	घन फी					
								घन मी.	205.80	508.00	1948.00	220.51
		2	1.00	1.00	9.00	18.00	घन फी					
		2	1.00	1.00	7.50	15.00	घन फी					
		2	5.50	1.00	2.00	22.00	घन फी					
		2	2.00	1.00	2.00	8.00	घन फी					
							63.00	घन फी				
							1.78	घन मी.	205.80	508.00	2182.00	3890.29
4	80 मि.मी. मोटाई (22 ग्रज9 की लोहे की इस्पात नालीदार चद्दर जिन्हे इस्पात के जे या एल हुक तथा 8 मि.मी. व्यास के बोल्ट तथा नट, बिटुमन वाशर के साथ लगाई जाएगी। इसमें कैची तथा परलिन की लागत शामिल नहीं है।	1	12.00	10.00		120.00	व. फी					
								व. मी.	11.98	28.00	488.00	5440.22
5	फर्श के नीचे सीमेन्ट कंक्रीट 1:6:12 मिश्रण जिसमें 1 सीमेंट 6 बजरी 12 भाग 40 मि.मी. नापीय पत्थर की मिट्टी के साथ मिलाकर डालना,कूटकर दवाना, तराई आदि समेत हाथ से मिलाकर डालना। मैन्जर	1	4.00	2.00	0.50	4.00	घन फी					
								घन मी.	239.61	316.11	1840.00	208.29
							0.11					

6	सीमेन्ट प्लास्टर दीवार पर 1:6 अनुपात में सीमेन्ट-बजरी मिलाकर जोड़ों को कुरेदने तथा तराई समेत। 25 मी.मी.	2	1.00		9.00	18.00	व. फी						
		2	1.00		7.50	15.00	व. फी						
		2	5.50		2.00	22.00	व. फी						
		2	3.50		2.00	14.00	व. फी						
		2	4.00		2.00	16.00	व. फी						
		2	2.00		2.00	8.00	व. फी						
							93.00	व. फी					
							8.64	व. मी.	27.93	83.00	172.00	1486.03	
7	दो एंगल (40ग 40 ग 5 उखरसाईज की लगाना एंव पीलर के साथ फिक्स करना साईज 12 फीट प्रत्येक का ।												
						96.00	कि. ग्रा						
						96.00	कि. ग्रा	2.94	11.40	62.70	6019.20		
8	सूचना पट का बोर्ड व नाम आदी										500.00		
9	कंटीजेन्सी /3:										540.00		
10	टैट दरों में संभावित बढोतरी उक्त दरों 2012 की है। नई दरें जिला दर निर्धारण समिति द्वारा तय की जानी है।										1400.00		
	कुल योग										20009.80		
11	चारा कुट्टी मशीन										5000		
12	चारा प्रदर्शन-1 हे.										3000		
13	मिल्क कैन 1 नग										1000		
14	कम्पोस्ट पिट										500		
	कुल योग										29509.80		

CHAPTER – VIII

Enclosures

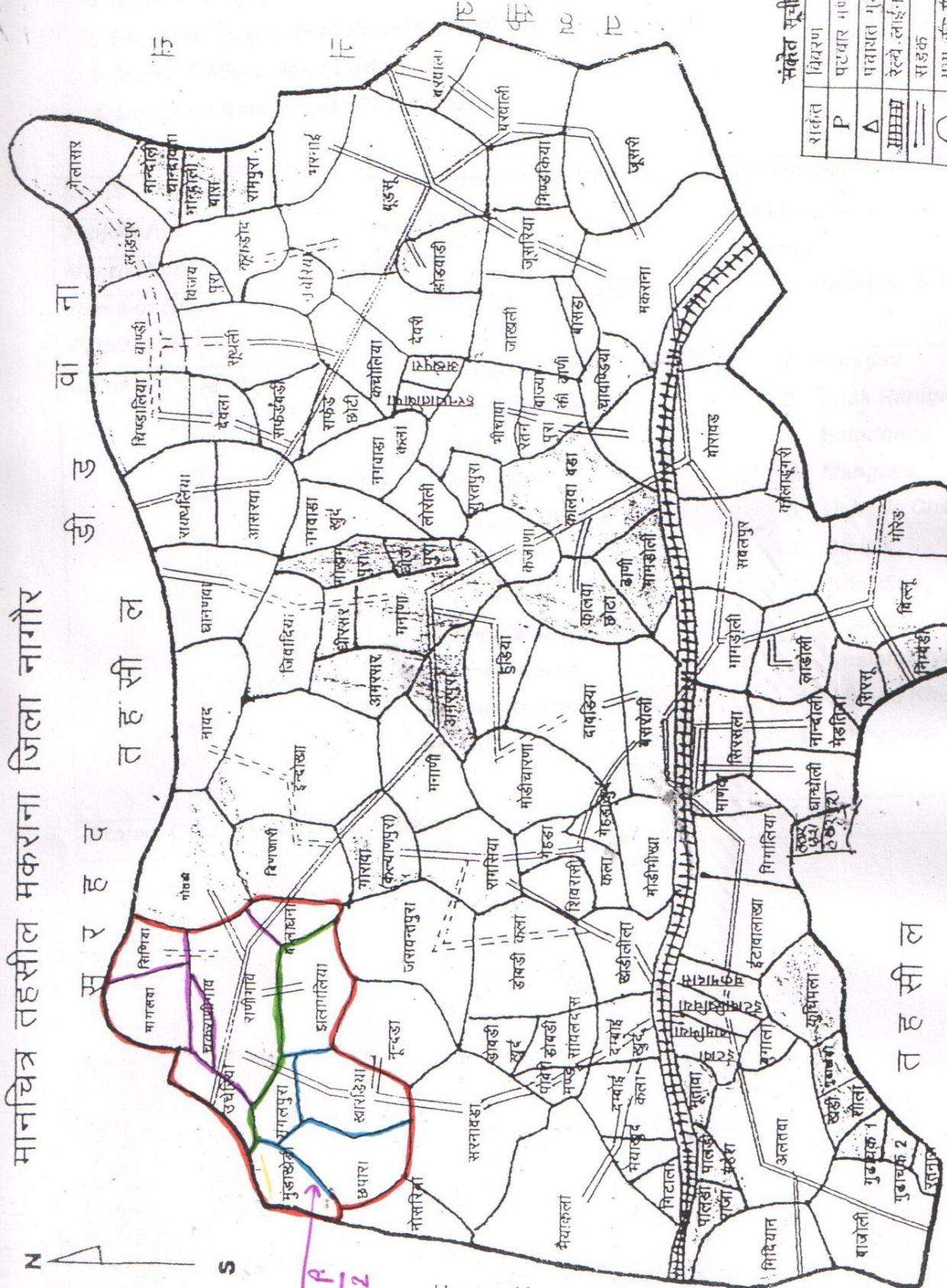
- f. Location –District, block, village, watershed location map
- g. Map of Ranigaon- Khardiya IWMP Project (Watershed Boundary demarcation in cadastral & Topo Sheet)
- h. PRA Map (along with photos & paper drawing)
- i. Treatment map (Indicate proposed works)
- j. Cadastral Map on watershed boundary
- k. Information on Soils, Soil fertility, Land capability, Soil chemical problems like salinity, alkalinity
- l. Land Use Land Cover map
- m. Information on existing water harvesting structures & well inventory along with GPS co-ordinates.
- n. High resolution, latest Remote Sensing Satellite data

मानचित्र तहसील मकराना जिला नागौर

स र ह द त ह सी ल वा ना डी उ

त ह सी ल

स र ह द प र र ब त स र



I.W.M.F.
35/2011-12

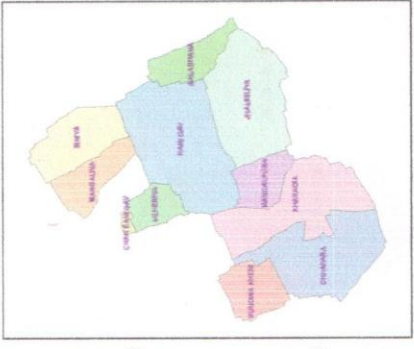
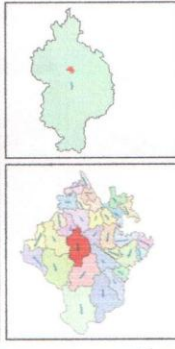
संकेत सूची

राज्य	राजस्थान
P	पटवार मण्डल
Δ	पंचायत मुख्यालय
══════	रेलवे लाईन
══	सड़क
○	ग्राम की सीमा
N	नगर पालिका
PS	पुलिस थाना
T	तहसील मुख्यालय

LULC Map Nagour (IWMP)35/2011-12 Makrana (Nagour)

Legend	Type	Area (Ha)
	Allocated Area	6033
	Village Boundary	6685.93
	Khassam Boundary	6685.93
	Waterbody	5.73
	Fallow Land	120.89
	Barren Land	14.14
	Barren Crop	245.73
	Barren	256.24
	Barren and Short Crop	101.45
	Land With Scrub	199.81
	Land Without Scrub	46.02
	Road	127.89

Legend	Village Names	Gram Panchayat Name	Area (Ha)
	CHAL NAGOUR	CHAL NAGOUR	22.91
	PHARWA	PHARWA	226.82
	KHAWAN	KHAWAN	985.27
	MORAWAN	MORAWAN	274.98
	BAI RAJ	BAI RAJ	126.14
	SONA	SONA	167.95
	SONWA	SONWA	225.52
	MALWAN	MALWAN	345.27
	CHALAN	CHALAN	995.93
	HADICE LAKE	HADICE LAKE	197.72
	MALWAN	MALWAN	269.77



Watershed Development & Soil Conservation,
Pant Krishi Bhawan, Jaipur

WAPCOS LIMITED
74-C, SECTOR-18, INSTITUTIONAL AREA,
GURGAON - 122018 (HARYANA)



The PRA exercise was carried out in all the villages on the dates shown below:

S.No	Name of the village/Habitation	Date on which PRA conducted
1	Ranigaon	29 Oct 2012
2	Chakranigaon	30 Oct .2012
3	Siniya	31 Oct 2012
4	Chpara	6 Nov. 2012
5	Baladhna	7 Nov. 2012
6	Khardiya	9 Nov. 2012
7	Mundakheri	16 Nov. 2012
8	Mangalpura	19 Nov. 2012
9	Manglawa	20 Nov. 2012
10	Jhilmaliya	21 Nov. 2012
11	Ucheria	22 Nov. 2012



PRA PHOTO RANIGAON

Transact walk were carried out involving the community for Social mapping, Resource mapping. Detailed discussions and deliberations with all the primary stakeholders were carried out. Socio-economic survey was carried out during 02 Feb. 2012 (dates) period covering all the households and primary data on demography, Land holdings, Employment status, Community activities etc. was collected as mentioned in chapter 2.

State remote sensing department was assigned the work of preparing various thematic layers **using** Cartosat-1 and LISS-3 imageries for **Creation**, development and management of geo-spatial database depicting present conditions of land (terrain), water and vegetation with respect to watershed under different ownerships at village level

Various thematic layers provided by WAPCOS are:

- Delineation of Macro/Micro Village boundaries.
- Digitised Khasara maps of the villages falling in project area.
- Base maps (transport network, village/boundaries, and settlements).
- Land Use / Land cover map.

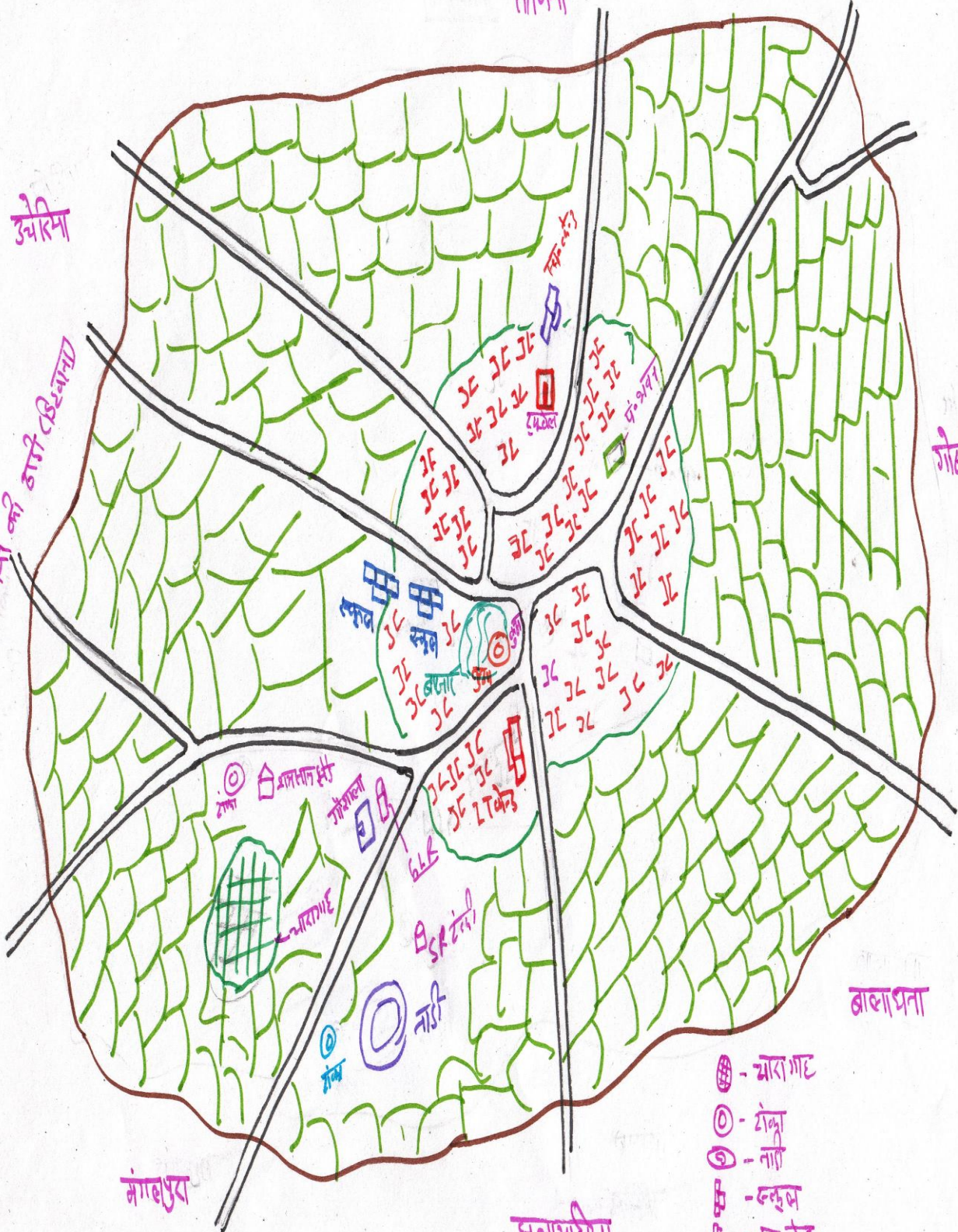
7

रानीगांव (PRAMAG)

सीमा

उत्तर
वाजिया की हारी चिह्नाना

गोडा



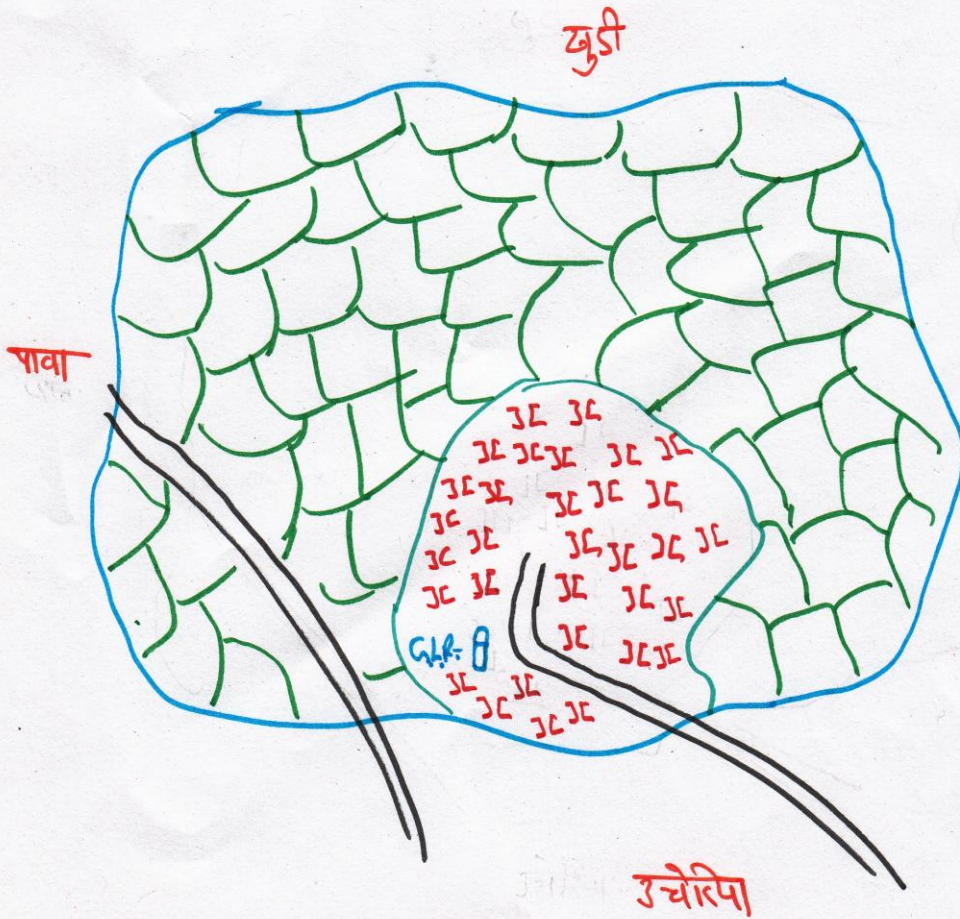
मंगलपुरा

सलामतिया

बाबाघना

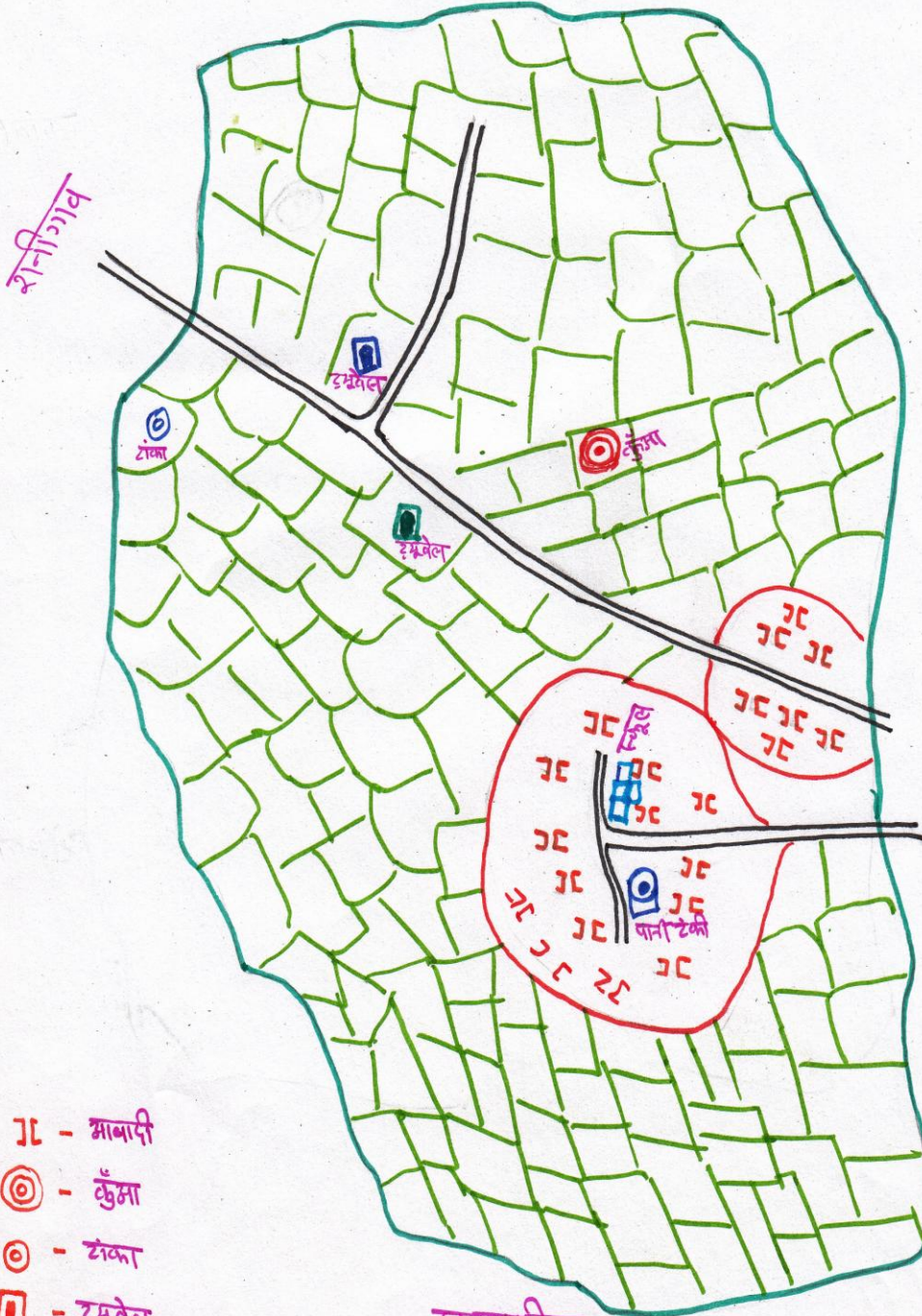


चक्रानी गांव (PRAMAD)



- JE - मावादी
- A - G.R.
- = - रोड

बालाघना (PRA MAP)



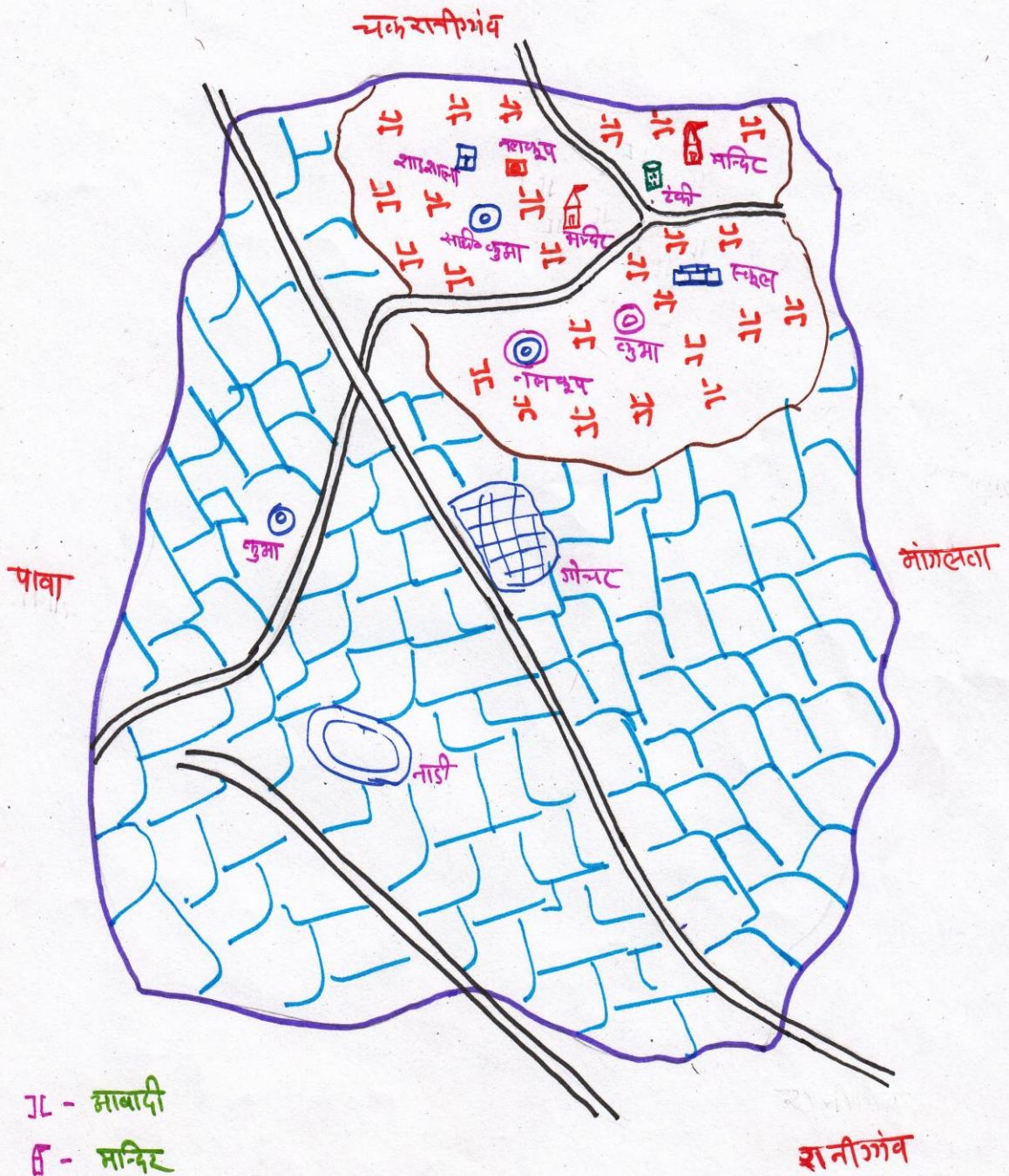
- ⌈ - भावापी
- ⊙ - कुँडा
- ⊙ - चौका
- ⌈ - दफ़वेल
- ⌈ - स्कूल

सलामलिया

रानीगाव

N
↑

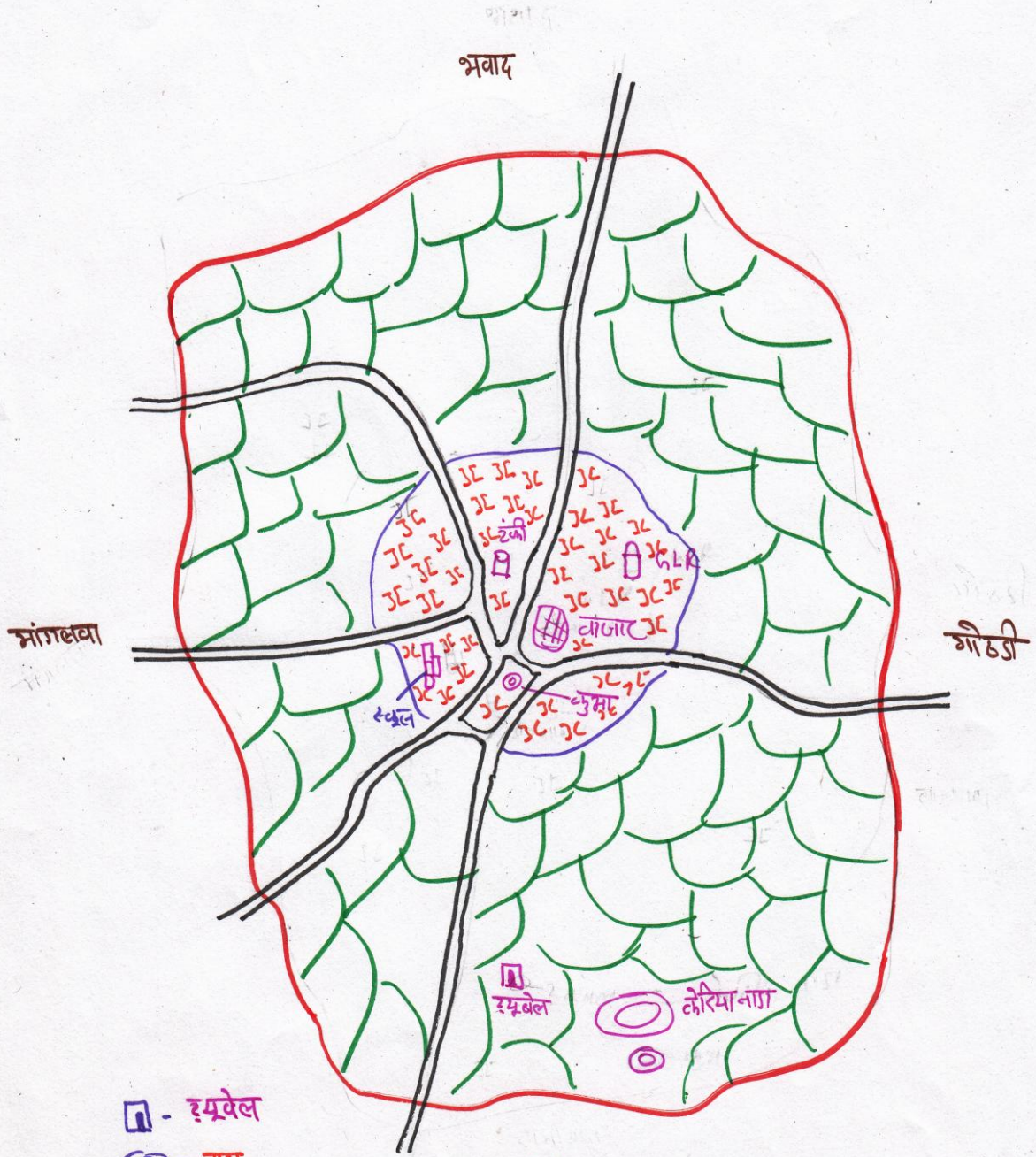
उच्चरिया (PRAMAP)



- IL - भावादी
- ☐ - मन्दिर
- ☐ - स्कूल
- ⊙ - कुंजा
- ☐ - शाळा



सीरिया (PRAMAP)

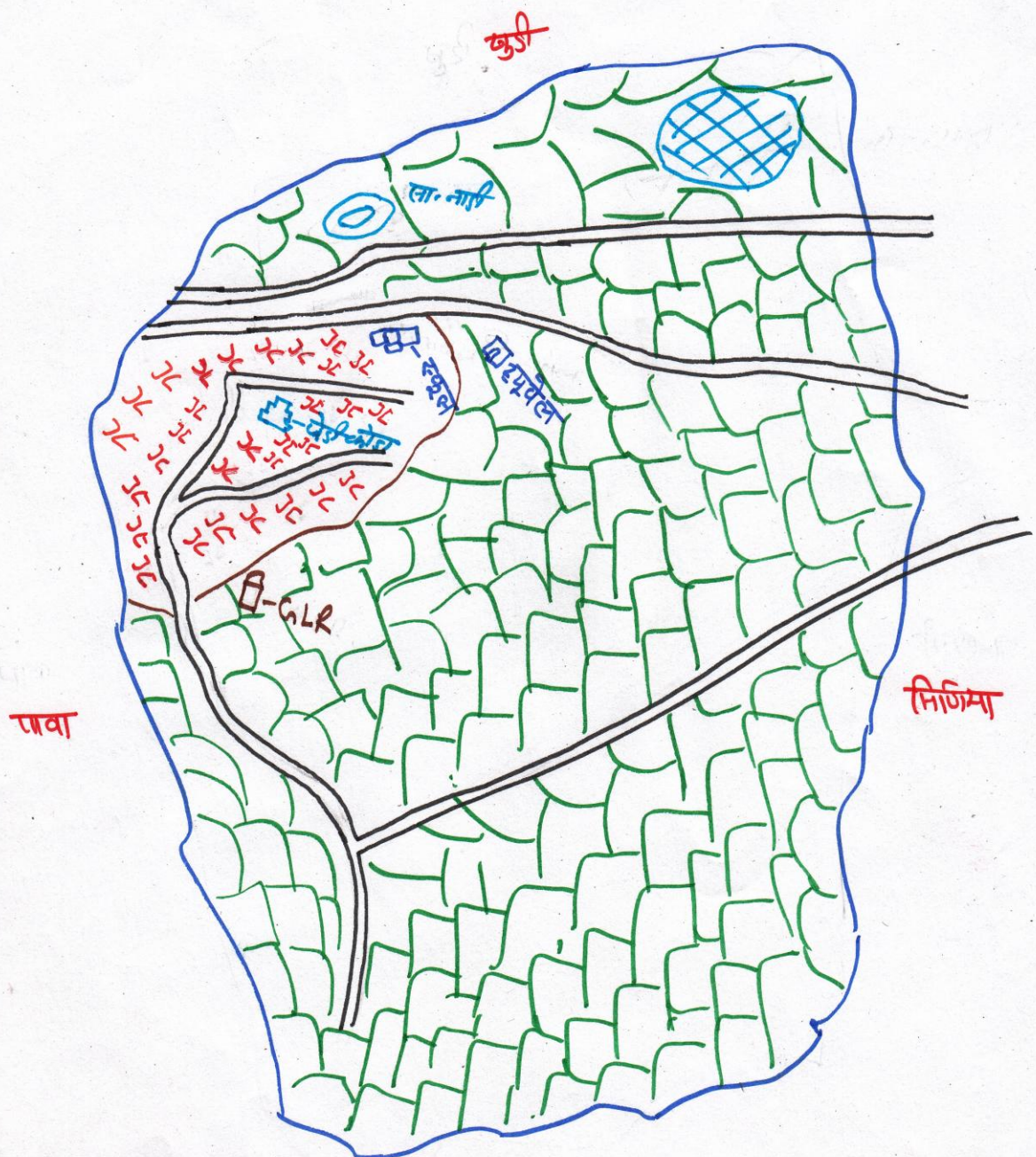








-  - स्कूल
-  - नडा
-  - कुमा
-  - देवी
-  - घर
-  - ट्यूब

रानीगांव



मांगलवा (PRAMAP)



-  - दफ्तरेला
-  - खेळी चौठा
-  - नारी
-  - भाटागांठ
-  - G.L.R.
-  - दफ्तरेला

रानीगांव

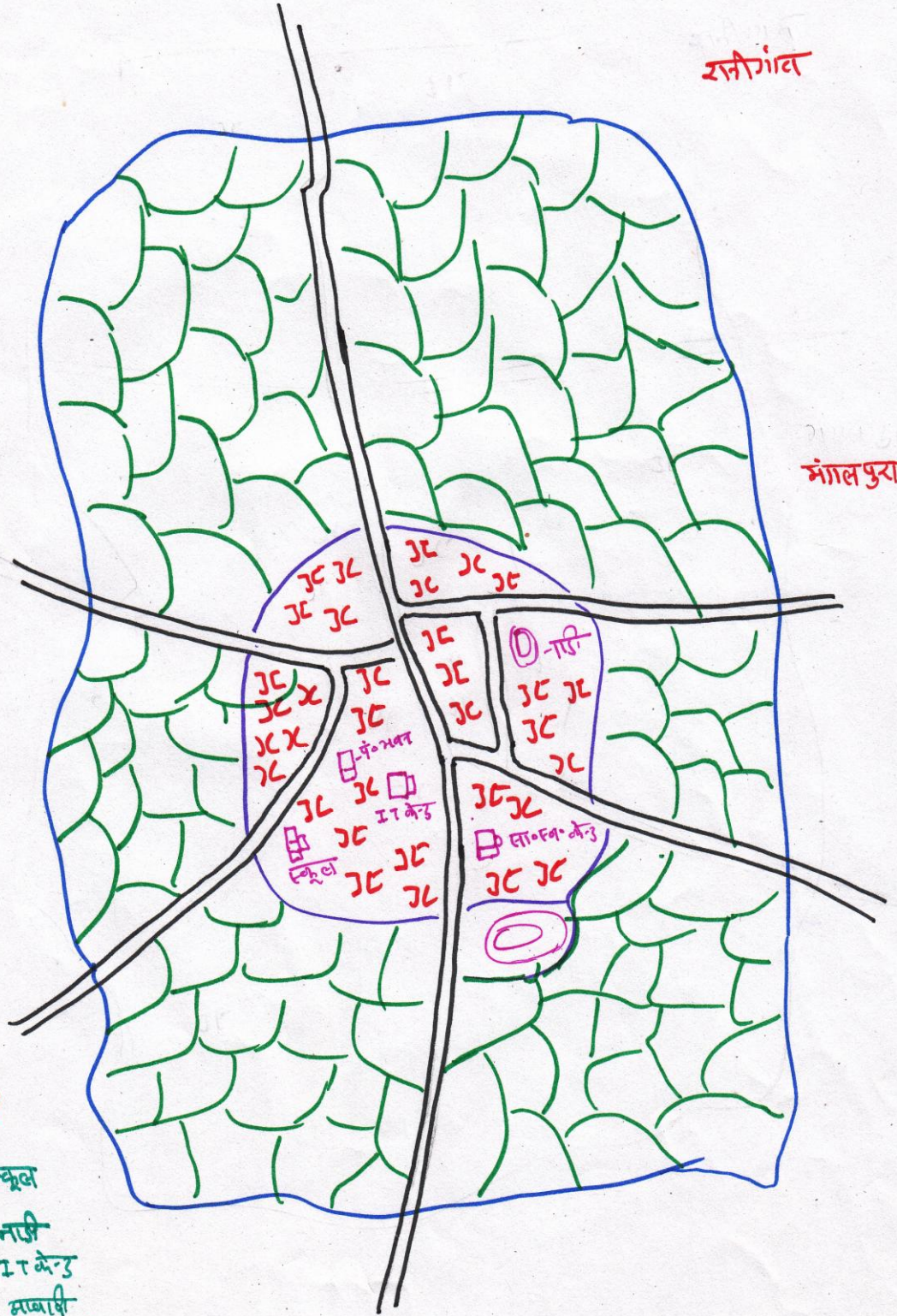


खारडिया (PRAMAP)

रत्नीगंज

मुण्डावेड़ी

मंगलपुरा

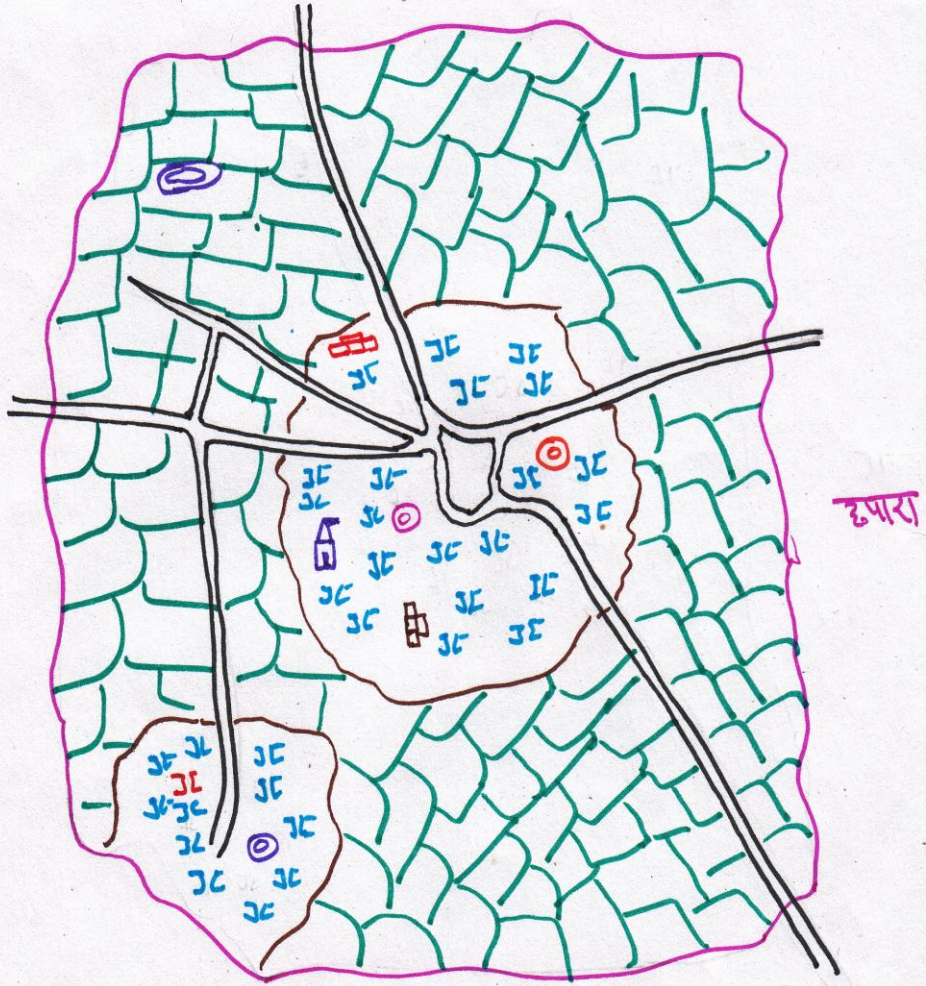







दुपारा

- ☐ - स्कूल
- - नाली
- - आ. केन्द्र
- ३८ - साधारण
- ☐ - प्रा. स्वा. केन्द्र

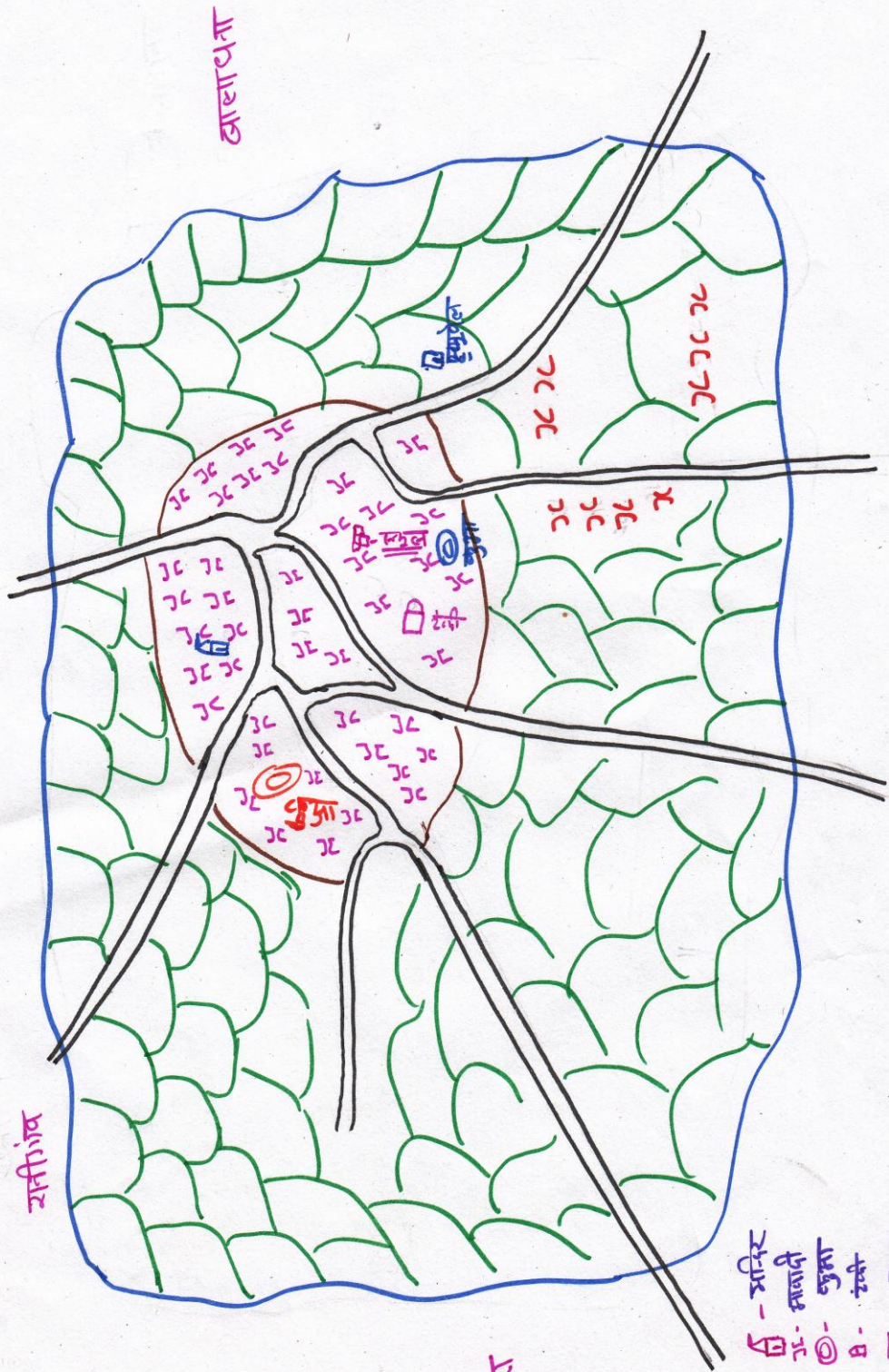
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मुण्डाबेडी (PRAMAP)



-  - मन्दिर
-  - कुँआ
-  - स्कूल
-  - झाबादी
-  - गाड़ी

प्रवासातील (PRA MAP)



- - पुला
- × - संपर्क
- - समाप्ती
- - दयवेळ



मंगलपुरा (PRAMAP)

रानीगांव

खारीया

शलाभलिया



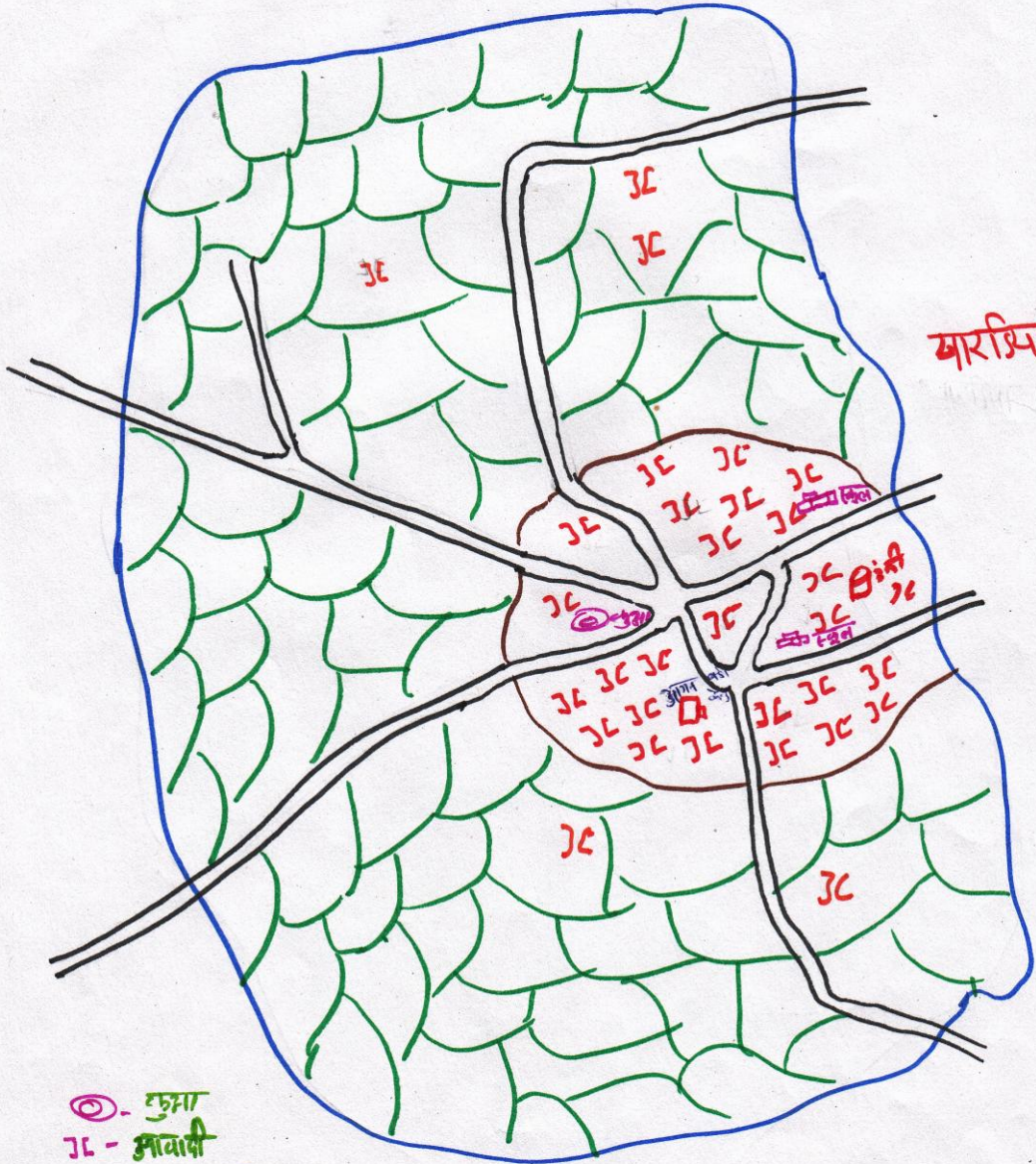
- ▣ - इम्वेल
- ⊙ - कुमा
- 卍 - भावपी
- ≡ - बड़क
- ⌘ - मन्दिर
- ⊙ - छेद
- ⌘ - टकला



दुपारा (PRA MAP)

मुळा देरी

बारझिा



- ⊙ - दुधमा
- ३८ - आवादी
- - भागवती लेग
- ▣ - दुकी
- || - सडक
- ▭ - लकल

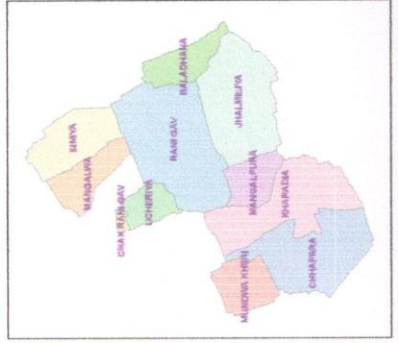
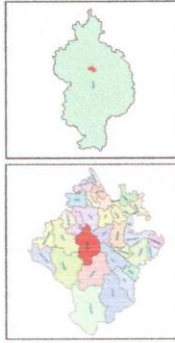


PRA PHOTOGRAPH G.P. KHARDIYA

KHASARA Map Nagour (IWMP) 35/2011-12 Makrana (Nagour)

Legend	Type	Area (Ha)
	Allocated Area	6933
	Village Boundary	6065.93
	Gram Panchayat Boundary	6065.93
	Watercourse	1000.00
	500 Nos	498
	Shed No. Postbox	22 Nos
	0 Nos	0
	School	0 Nos
	0 Nos	0
	Abad	32 Nos
	0 Nos	0
	Hydro	0 Nos
	Extends. Pancher	0 Nos
	Flood	1046.05

Legend	Village Name	Area (Ha)
	CHAKRAHAR GAV	584.62
	HALADIVA	561.8
	MANGALWARA	714.85
	BAR GAV	1502.4
	SHIVA	97.78
	LOCHERIVA	291.1
	MAJALWARA	245.7
	CHANDARA	993.31
	MUNDWA KHEN	975.22
	MANGALWARA	297.77

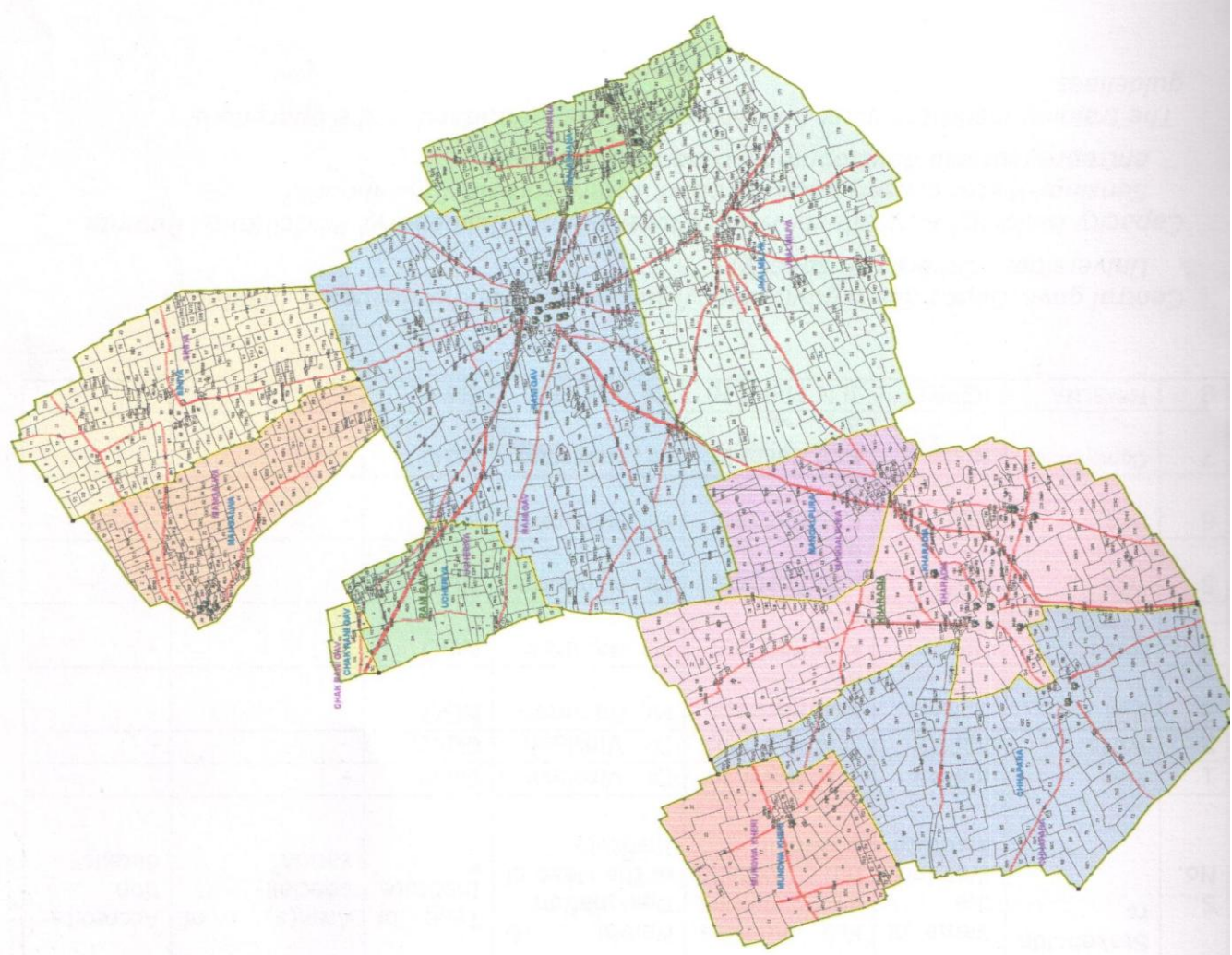


1 centimeter = 166 meters

0 0.5 1 2 KM

Watershed Development & Soil Conservation,
Pant Krishi Bhawan, Jaipur

WAPCOS LIMITED
74-C, SECTOR-18, INSTITUTIONAL AREA,
GURGAON - 123015 (HARYANA)



Documents of Agreements:

Proceedings of gram sabha for EPA approval

Proceedings of gram sabha Resolution for committee constitution

Proceedings of gram sabha for DPR approval

DPR approval by district

Watershed Committee Registration certificate

MoU – PIA – DWMA, PIA – WC(in case of NGO as PIA)

Shamsan Shed Photograph of EPA Work at Ranigaon

