

CERTIFICATE

Certified that the undersigned have proposed the appropriate and need based activities required in the watershed project area with active participation of beneficiaries along with consultation of Watershed Committees (WCs). Approval of Watershed Project Plan and DPR has been obtained from WC, Gram Sabah. The plan and DPR document of **RAIPUR (PALI IWMP – XXI)** Project, at P.S.–Raipur District - Pali is technically sound, viable and appropriate for implementation during the period 2011-12 to 2017-18.

We recommend that this plan to be sanctioned and put to implementation.

Signature	Signature	Signature	Signature	Signature	Signature
Chairman/	Secretary	WDT	Junior	Assistant	Project
	WC	members	Engineer	Engineer&PIA	Manager,WCDC
			P.S.Raipur	P.S.- Raipur	Distt.- Pali

1

2

3

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Detail of Project

1. Name of Project : RAIPUR (PALI IWMP- XXI)2011–12
2. Sanction No. & date of Project : 4800–508 Date:- 05–08–2011
3. Macro & Micro No. : 10/1,2B,6,7,8,9,10 6/1,2,3,4
4. Deviation from Project Sanctioned :

Items	As per Project Sanctioned		As proposed in DPR	
	No. Of G.P	No. Of Villages	No. Of G.P	No. Of Villages
IWMP XXI	5	14	7	12

Items	As per Project Sanctioned	As proposed in DPR
Project Area	5180 Ha.	4361 Ha.
Macro/Micro No	10/1,2B,6,7,8,9,10 6/1,2,3,4	10/1,2B,6,7,8,9,10 6/1,2,3,4
Name of Gram Panchayat	Chang , Chitar , Nanana, Pratapgarh, Ratdiya, Relra	Chang , Chitar , Giri, Nanana, Pratapgarh, Ratdiya, Relra
Name of Villages	Badi Pole, Sailpura, Ratdiya, Bhavriya, Nanana, Rawatkhera, Chang, Salacot, Devnagar, Kalpura, Kanecha, Naharpura, Pratapgarh	Chang, Kanpura, Chitar, Lakhina Panabaori, Giri, Nanana, Naharpura, Ratdiya, Sailpura, Deoli Khurd, Kanecha Udawatan
Project Cost (Rs. in Lacs)	777.00 Lac.	654.15 Lac.

- 5180-4361 = 819 Ha. Area are due to Treated.



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• CHAPTER – I

INTRODUCTION

Location

The Project is located in Raipur Block, of Pali District. The project area is between the Latitudes 25° 15' 30" & 74° 18' 30" Longitudes. It is at a distance of 17 km from its Block head quarters and 46 Km. from the district head quarters. There is 14 no. of habitations in the Project area and other details are given below.

General features of watershed

S. No.	Name of Project (as per GOI)	Raipur (PALI IWMP) 21/2011-12
(a)	Name of Catchment	Local Nalla
(b)	Name of watershed area (Local Name)	Pali IWMP–21 Nanana(10), Narpura(6)
(c)	Project Area	4361 Ha
(d)	Net treatable Area	4361 Ha
(e)	Cost of Project	654.15 Lack
(f)	Cost/hectare	15000/- Per Ha.
(g)	Year of Sanction	2011-12
(h)	Watershed Code	06020601,6020602,6020603,6020604, 6021001, 6021002, 6021006, 6021007, 6021008, 6021009, 6021010
(i)	No. of Gram Panchayats in project area	7 No
(j)	No. of villages in project area	12 No
(k)	Type of Project	Other
(l)	Elevation (metres)	450-500 m
(m)	Major streams	10.800 K.M.
(n)	Slope range (%)	0-3%

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S. No.	Name of Gram Panchayat	Macro/Micro	Name of Villages Covered	Census code of villages	Total Area of Village	Area in W/S (Ha)
1	CHANG	10/2,8,9	CHANG	0820000202408500	1326	519
2	CHITAR	10/8	KANPURA	0820000202406600	1992	19
3		10/8,9	CHITAR	0820000202406500	1405	479
4		10/1	LAKHINA PANABAORI	0820000202409000	37	37
TOTAL					3434	535
5	GIRI	10/6'7'10	GIRI	0820000202405200	2563	308
6	NANANA	10/6	NANANA	0820000202405900	1555	128
7	PRATAPGARH	6/1,2,3,4	NAHARPURA	0820000202409900	987	832
8		6/2	PRATAPGARH	0820000202410000	942	436
TOTAL					1929	1268
9	RATDIYA	6/1,3,4,10/2,9,1	RATDIYA	0820000202409100	1455	1206
10		10/1,2,9	SAILPURA	0820000202408900	195	170
TOTAL					1650	1376
11	RELRA	10/6	DEOLI KHURD	0820000202406300	249	82
12		10/9	KANECHA UDAWATAN	0820000202406400	145	145
TOTAL					394	227
TOTAL					12851	4361

The watershed falls in Agro climatic Zone **IV**. The soil texture is Sandy Loom. The average rainfall is **56.89** cm. The temperatures in the area are in the range between **31-47** centigrade during summer and **5-23** centigrade during winter. The major crops in the area are **2397** Ha (Bajara, Wheat, Gram & Mastered) **54.96%** land is under cultivation, **45.04%** land fallow, **45.04%** land is wasteland. **21.74%** land is irrigated through well, Tube well, & Minor Irrigation Project Of G.P. Tanks.

823 No of households are BPL (**16.96%** households) **945** are landless households (**19.47%** households) and **3156** household are small and marginal farmers (**65.04%**household). Average land holding in the area is **1.11** ha. **33.22%** area is single cropped area and **21.74%** is double cropped. The main source of irrigation is well & Tube well. The average annual rainfall (10 years) in the area is **566.51** mm. The Major streams in the Watershed are **10.800** Km. the major festivals in the village are Dashera, Deepawali & Holi. At present those villages of Project Area having **25593** No population with Communities like SC, ST, Jat, Gurjar, Mali & Other.

Climatic and Hydrological information

1 Average Annual Rainfall (mm)

	Year	Average Annual Rainfall(mm)
1	2003	477
2	2004	398
3	2005	446
4	2006	533
5	2007	548
6	2008	367
7	2009	441
8	2010	967
9	2011	785
10	2012	727
Average Rainfall (Last 10 Years)		568.90 mm

2. Average Monthly rainfall (Last Ten Years)

	Month	Rainfall(mm)
i)	June	37.90MM
ii)	July	159.45MM
iii)	August	234.70MM
iv)	September	93.80MM

3. Maximum rainfall intensity (mm)

	Duration	rainfall intensity(mm)
(i)	15 minute duration	37 mm
(ii)	30 minute duration	65 mm
(iii)	60 minute duration	80 mm

4. Temperature (Degree C)

	Season	Max	Min
(i)	Summer Season	47	31
(ii)	Winter Season	23	5
(iii)	Rainy Season	38	17

5. Potential Evaporation Transpiration (PET) (mm/day)

	Season	PET
(i)	Summer	15
(ii)	Winter	5
(iii)	Rainy	8

6. Runoff

(i)	Peak Rate (cum/hr)	1751040 (Cum./Hr.)		
(ii)	Total run off volume of rainy season (ha.m.)	35.825		
(iii)	Time of return	5 Years	10 Years	In - Years
	(a) maximum flood	Nil	Nil	Nil
(iv)	(b) Periodicity of Drought in village area	Yes	Yes	No

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.	MNREGA	ZILA PARISHAD PALI	KHADIN	7	35.420
			FARM POND	9	15.660
			OPEN CONTOUR TRENCH	200	23.400
			NADI IN PD BLOCK	1	5.060
			TANKA IN PD BLOCK	1	1.850
			L.S.C.D.	207	13.124
			GALI PLUG	9	1.260
			PASTURE DEVELOPMENT (Private Pasture)	24	2.587
			HORTICULTURE PLANTATION	59	29.695
			M.M.S. 10m.	2	10.960
			M.M.S. 5m.	3	12.750
			A.I.	400	0.600
2.	Others (Bank)		Grant in aid to enterprising SHG or Federation of SHGs individual	12	24.000
TOTAL				934	176.37



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Details of infrastructure in the project areas:-

Parameters		Status			
(i)	No. of villages connected to the main road by an all-weather road	12 No.			
(ii)	No. of villages provided with electricity	12 No.			
(iii)	No. of households without access to drinking water	0			
(iv)	No. of educational institutions :	(P)	(UPS)	(HS)	(VI)
	Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	24	6	3	
(v)	No. of villages with access to Primary Health Centre	5			
(vi)	No. of villages with access to Veterinary Dispensary	0			
(vii)	No. of villages with access to Post Office	3			
(viii)	No. of villages with access to Banks	3			
(ix)	No. of villages with access to Markets/ mandis	5			
(x)	No. of villages with access to Agro-industries	0			
(xi)	Total quantity of surplus milk	3			
(xii)	No. of milk collection centres	(U)	(S)	(PA)	(O)
	(e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	0	3	15	0
(xiii)	No. of villages with access to Anganwadi Centre	22			
(xiv)	Any other facilities with no. of villages (please specify)	7 No. (Rajiv Gandhi Seva Kendra)			
(xv)	Nearest KVK	Pali			
(xvi)	cooperative society	7			
(xvii)	NGOs	Nil			
(xviii)	Credit institutions				
	(i) Bank	Nil			
	(ii) Cooperative Society	7			
(xix)	Agro Service Centre's	Nil			



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

DWDU Details

1	2	3
S. No	Particulars	Details of DWDU
1.	PM, DWDU	Sh. Govind Singh
2.	Address with contact no., website	Zila Parisad Pali
3.	Telephone	02932-221682
4.	Fax	
5.	E-mail	dwdu.pali@gmail.com

PIA particulars

1	2	3
S. No	Particulars	Details of PIA
6.	Name of PIA	Sh. Ramraj Meena
7.	Designation	Assistant Engineer
8.	Address with contact no., website	Zila Parisad Pali
9.	Telephone	
10.	Fax	
11.	E-mail	

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	Jh ukjk;.k flag pkSgku	M		B. A.	15 Year	Social Scientist	For Make of SHG
2						Veterinary Scientist	Animal Husbandry Work
3	Jh Nhrj [kku	M		XII Agriculture	6 Year	Agriculture Scientist	
4	Jh jktsUnz dqekj jk[kspk	M		Diploma Civil	17 Year	Engineer	

Details of Watershed Committees (WC)


S. No.	Name of WCs	Date of Gram Sabah for WC	Date of Registration as a Society (dd/mm/yyyy)	Designation	Name	M/F	SC/ST/OBC/General	Landless/MF/SF/BF	Name of UG/SHG	Educational qualification
1	CHANG	20-03-2013	N. R.	President	Jh dkyw [kkWa@ih: [kkWa	M	OBC			
				Secretary	Jh gjn;ky@Hkaoj yky	M			UG	
				Member	Jh feBw flag@dkyw flag	M	General		UG	
				Member	Jh lktu@inek	M			UG	
				Member	Jh xksfoUnjke@nsoh yky	M			UG	
				Member	Jh jes'k@ckcw yky	M			UG	
				Member	Jh gSnjvyh@lqcku	M			UG	
				Member	Jh erh rqylh@xksiky	F			SHG	
				Member	Jh erh ucZnk nsoh@jkepUnz	F			SHG	
				Member	Jh erh lhrk@isek	F			SHG	
				Member	Jh eqjkn@eaxyk	M			UG	
Member	Jh lqok@ckcw	M			UG					
Member	Jh erh lk;j@rstk	F			SHG					

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2	CHITAR		N. R.	President	Jh uSuqdkBkr	M				
				Secretary	Jh nsohdkBkr@eksrhdkBkr	M	OBC		UG	
				Member	Jh ukuw@ckyk	M	OBC		UG	
				Member	Jh ukFkh@eksgu ^{erh}	F	SC		SHG	
				Member	Jh vteky@dslk	M	OBC	MF	UG	
				Member	Jh Jo.k@lejFkk	M	OBC	MF	UG	
				Member	Jh jktw@eksVk	M	OBC	Landless	UG	
				Member	Jh nhuk@lek	M	OBC	MF	UG	
				Member	Jh do:@vyh	M	OBC	MF	UG	
				Member	Jh gjth@cUuk	M	SC	MF	UG	
				Member	Jh xksiky@uthj	M	OBC	Landless	UG	
				Member	Jh Inoj@eksgEen [kkWa	M	OBC	Landless	UG	
Member	Jh jetku@bZLekbZy	M	OBC	Landless	UG					

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S. No.	Name of WCs	Date of Gram Sabah for WC	Date of Registration as a Society (dd/mm/yyyy)	Designation	Name	M/F	SC/ST/ OBC/ General	Landless/ MF/SF/ BF	Name of UG/SHG	Educational qualification
3	 GIRI		N. R.	President						
				Secretary						
				Member						
				Member						
				Member						
				Member						
				Member						
				Member						
				Member						
				Member						
				Member						
				Member						

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Details of Watershed Committees (WC)

S. No.	Name of WCs	Date of Gram Sabah for WC	Date of Registration as a Society (dd/mm/yyyy)	Designation	Name	M/F	SC/ST/OBC/General	Landless/MF/SF/BF	Name of UG/SHG	Educational qualification
4	NANANA	28-02-2012	N. R.	President	Jh Nxu flag@mjt flag	M	General	SF		
				Secretary	Jh ukjk;.k flag@xsu flag	M	General	SF	UG	
				Member	Jh jru flag@xkso/kZu flag	M	General	MF	UG	
				Member	Jh cq/kk flag@dslk flag	M	General	MF	UG	
				Member	Jh efr usuh nsoh@vej flag	F	General	MF	SHG	
				Member	Jh eksrh dkBkr	M	SC	Landless	UG	
				Member	Jh nsok@eaxyk es?koky	M	SC	MF	UG	
				Member	Jh rstkjk@ukjk;.k yky dqEgkj	M	OBC	Landless	UG	
				Member	Jh ckcq yky@ukjn yky 'kekZ	M	General	Landless	UG	

				Member	Jh iUuk@inek HkkaM+	M	OBC	Landless	UG	
				Member	Jh dkyw@'kdqj [kka rsyh	M	OBC	Landless	UG	

Details of Watershed Committees (WC)

S. No.	Name of WCs	Date of Gram Sabah for WC	Date of Registration as a Society (dd/mm/yyyy)	Designation	Name	M/F	SC/ST/OBC/General	Landless/MF/SF/BF	Name of UG/SHG	Educational qualification
5	PRATAP GARH		N. R.	President	Jh Qrsg flag@/kUuk flag	M	General			
				Secretary	Jh ;ksdj flag@jke flag	M	General		UG	
				Member	Jh erh lk;jh nsoh@ukFkk es?koky	F	SC		SHG	
				Member	Jh exu flag@yknq flag	M	General		UG	
				Member	Jh n;ky flag@ine flag	M	General		UG	
				Member	Jh enu flag@Hkknk	M	General		UG	

				flag					
				Member	Jh erh yfyrk@lqjs'k iqjh	F	OBC		SHG
				Member	Jh erh ekuh nsoh@nsoh flag	F	General		SHG
				Member	Jh Hkokuh flag@lqtk flag	M	General		UG
				Member	Jh erh lq[kh@lkaoj flag	F	General		SHG
				Member	Jh feBq flag@yknq flag	M	General		UG

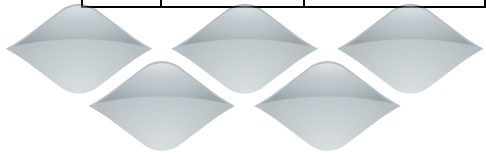


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Details of Watershed Committees (WC)

S. No.	Name of WCs	Date of Gram Sabah for WC	Date of Registration as a Society (dd/mm/yyyy)	Designation	Name	M/F	SC/ST/OBC/General	Landless/MF/SF/BF	Name of UG/SHG	Educational qualification
6	RATDIYA	27-02-2012	N. R.	President	Jh ckcq flag@gtkjh flag	M				

				jkor				
			Secretary	Jh ì Fohjkt dqekj flag@gfj flag	M	General		UG
			Member	Jh ukjk;.k flag@eaxy flag jkor	M			UG
			Member	Jh efr 'kkUrh nsoh@ckcq flag jkor	F			SHG
			Member	Jh uksjr ukFk@feJh ukFk	M	OBC		UG
			Member	Jh xksih flag@izse flag jkor	M			UG
			Member	Jh Qrsg eksgEen@fHk{kq [kka	M	OBC		UG
			Member	Jh ckcq flag@gtkjh flag jkor	M			UG
			Member	Jh Hkxoku flag@Nksx flag jkor	M			UG
			Member	Jh ukjk;.k@izrki th xqtZj	M	OBC		UG
			Member	Jh jetku@usuk th esjkr	M	OBC		UG
			Member	Jh dpd flag@vthe flag jkor	M			UG
			Member	Jh [kse flag@eky flag jkor	M			UG



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Details of Watershed Committees (WC)

S. No.	Name of WCs	Date of Gram Sabah for WC	Date of Registration as a Society (dd/mm/yyyy)	Designation	Name	M/F	SC/ST/OBC/General	Landless/MF/SF/BF	Name of UG/SHG	Educational qualification
7	RELRA	12-08-2013	N. R.	President	Jh enu flag	M	General			
				Secretary	Jh izse flag	M	General		UG	
				Member	Jh ukjk;.k yky	M			UG	
				Member	Jh guqeku yky	M			UG	
				Member	Jh ukjk;.k flag iap	M	General		UG	
				Member	Jh efr Hkaojh nsoh iap	F			SHG	
				Member	Jh y{e.k flag	M	General		UG	
				Member	Jh lksgu flag	M	General		UG	
				Member	Jh izse flag	M	General		UG	
				Member	Jh dku flag	M	General		UG	
Member	Jh ckq flag	M	General		UG					



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Problems and scope of improvement in the project area

The socio economic conditions of the area can be improved through increased production which can be achieved through expansion in cultivated area and productivity 2397 Ha. Land is Arable & 1964 Ha. Wasteland Land 612 Ha. is fallow can be brought under cultivation.

948 Ha. is only Irrigated and with efforts this can be increased to 850 Ha. The productivity gap of major crops in the area as compared with district and with areas in the same agro climatic zones indicate potential to increase the productivity. The demonstration of improved package of practices, improved varieties, increased irrigation facilities and soil conservation measures under the project can bridge this gap. Due to small land holdings in the area focus of the project would be on diversification in agriculture (horticulture, vegetables, green houses, Agro forestry, fodder crops) and diversification in Livelihoods (Agriculture, Animal husbandry, self employment)

37350 Quintal fodder scarcity can be met out through Pasture development .Improved animal Husbandry practices can increase the productivity of livestock. 152 no of persons migrate due to lack of employment at village level, this migration can be checked through creation of employment opportunities in the project area through increase in production and diversification in agriculture and Livelihoods as mentioned above.

1. Soil Erosion

Soil of Raipur is moderately to severely erode mainly by rivers and nallahs, mostly during the rainy months. Besides, stagnation of water has given rise to the problem of salinity and alkalinity.

2. Socio-Demographic Profile

The project area consists of a total population of 25593 with nearly 9.30% of the population belonging to the Scheduled Caste and 0.00% of the population Scheduled Tribe communities.

The sex ratio in the area is 1041. The area has a low level of literacy of 33.23% as compared to 60.40% at the State level. With the female literacy rate being a mere 10.96%, the status of literacy in the area is one of the indicators of the deplorable plight of the women in the area.

Table 3: Demographic Profile of Raipur Project Area

POPULATION	
Total population	25593
Male Population (%)	49.00
Female Population (%)	51.00
Sex ratio (female per thousand males)	1041
% Population of Scheduled Caste	9.30
% Population of Scheduled Tribe	0.00
Literacy rate Total (percent)	33.23
Literacy rate male (percent)	22.27
Literacy rate female (percent)	10.96

Source: Government of Rajasthan and Census of India

3. Livelihood Profile

Agriculture and animal husbandry have been central to the livelihoods of the people living in this area. Frequent occurrences of drought in the recent years has however, increased the vulnerability of the farming communities. Increased pressure on land, decline in the productivity of agricultural land combined with shrinking of forests and common pasture land has threatened the viability of farming as a primary livelihood option in the area.

Only 45% of the income is derived from farming and

the people have to resort to other options for sustaining their families. Low levels of literacy, absence of programmes for developing skills particularly in the non-farm sector and limited access to basic infrastructural facilities and services has impinged on the people's right to choose the best livelihood option. Migration can be seen as a prominent phenomenon with nearly 12% of the income coming from migration. Launch of MGNREGA has helped in generating employment in the area with about 12% of the income of the people being derived from working on MGNREGA sites.

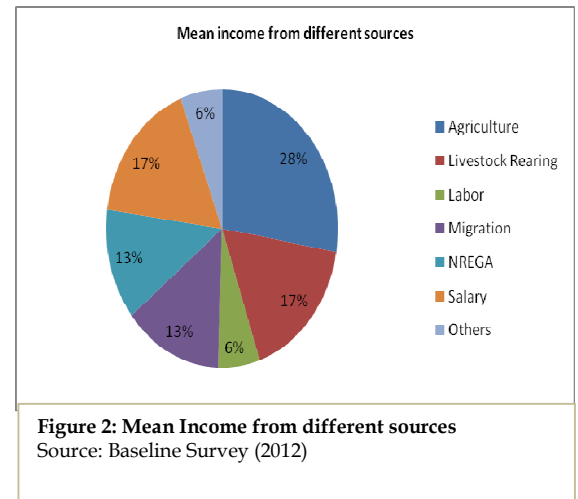


Figure 2: Mean Income from different sources
Source: Baseline Survey (2012)

4. Agriculture

Land and water resources have been the key drivers of farm based production systems which form the predominant source of livelihoods of the people in this area. The area is characterized by land based economy. Land has also been crucial in defining the social and political relations of the people in the area. 21.67% of the households are landless while 64.50% are small and marginal farmers. With very low landholdings and subject to vagaries of nature agriculture remains a high risk-low input-low output activity.

The area mostly has sandy loam to clay loam soil where the percolation of water ranges from good to medium. Most of the soil is calcareous while in some patches, saline and alkaline soil is also found. The soil is moderately to severely eroded mainly by rivers and nullahs. Substitution of organic fertilizer with chemical fertilizer has further worsened the soil quality. The nature of agriculture and farming practices is also strongly conditioned by the availability of water. Depletion in the surface as well as ground water resources has adversely affected agriculture. Some of the villages in the area have access to canal and tank irrigation; wells are the most common source of irrigation. The farmers mostly use engine to draw water for irrigation from wells. Besides, flood irrigation is a common practice that can be found in the area.

Kharif is the main cropping season in the area. Major cereals grown during Kharif include maize, bajra and jowar. Crop production during *Rabi* remains limited to such farmlands which have access to irrigation. Wheat is the main cereal crop grown during *Rabi*. Besides cereal crops, pulses, fodder crops like *Rajka* and oilseeds such as groundnut and mustard are also cultivated in the area. Over the years, the agricultural practices have undergone a remarkable change in the area. Besides the traditional plough, tractors are also being increasingly used. Chemical fertilizer is used intensively. The types of seeds, pesticide and fertilizer across the different villages in the area are detailed in the tables below:

Cropping Status												
S. No	Season	Crop Shown	Rainfed				Irrigated				Total	
			Varieties	Area (Ha.)	Production (Tun)	Productivity (kg/ha)	Varieties	Area (Ha.)	Production (Tun)	Productivity (kg/ha)	Area (Ha.)	Production (Tun)
1	Kharif	Bajra	MK-30	850	824.50	970	MK-30	85	83.30	980	935	907.80
		GWAR		285	119.70	420		45	19.25	425	330	138.95
		JWAR	151M	650	624.00	960	151M	55	53.07	965	705	677.07
2	Rabi											
		WHEET	3077, Lok-1				3077	350	784.00	2240	350	784.00
		CHANA					DAHED YELLOW	115	98.32	855	115	98.32
		SARNSO	T-59/PUSA-VON				T-59/PUSA-VON	250	312.50	1250	250	312.50
TOTAL				1785	1568.20			900	1350.44		2685	2918.64

Productivity kg/ha

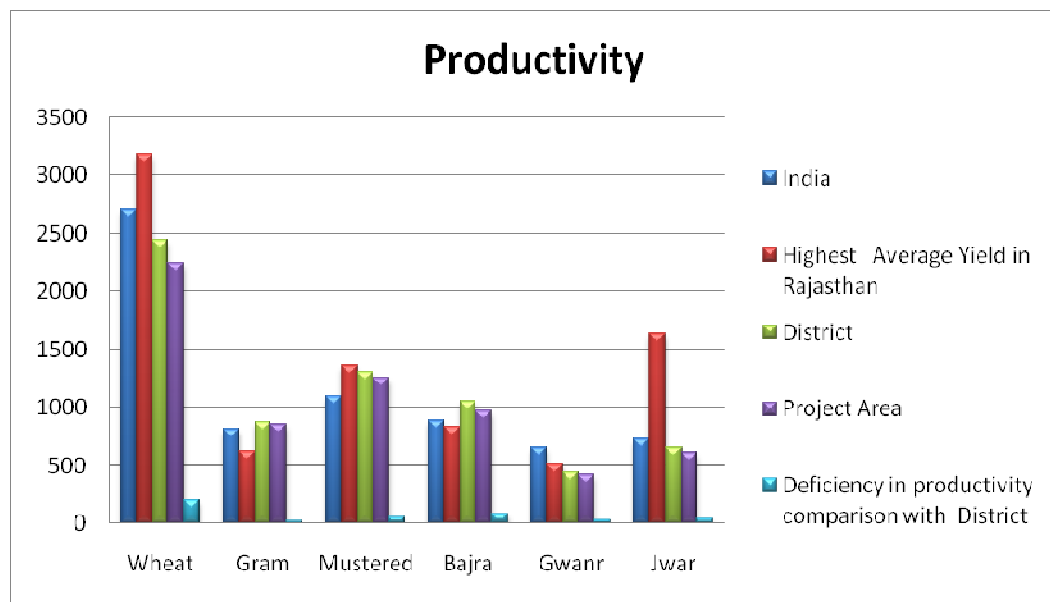
Name of the crop	India	Highest Average Yield in Rajasthan	District	Project Area	Deficiency in productivity comparison with District
Wheat	2708	3185	2440	2240	200
Gram	808	622	875	855	20
Mustered	1095	1356	1300	1250	50
Bajra	886	828	1050	970	70
Gwanr	650	509	445	420	25
Jwar	730	1634	650	610	40



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Shown The Bar Chart As Follow



Reasons for low productivity:-

- Use local Varieties of Seed
- Allcanase soil
- Soil depth low
- Wrong Agriculture practice
- Lack of Availability of good quality seeds of desired crop and variety in adequate quantities and time to the farmers.
- Availability of water for cultivation(18.33% is Irrigated table **No. 2.6**)



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5. Livestock

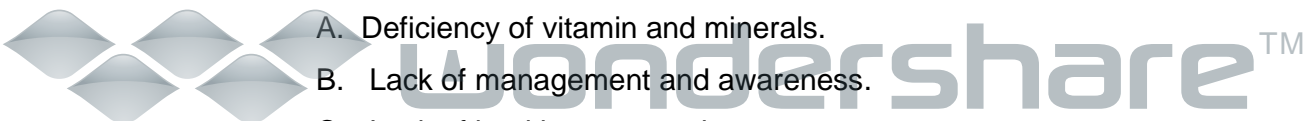
Agriculture supplemented with livestock keeping forms the basis of sustenance for the farmers in this area. Crop residue and grazing provides fodder and forage to livestock. Livestock keeping on the other hand acts as a drought power and source of energy, nutrition and manure. The symbiotic relation between the two systems is clearly visible and change in one has a direct impact on the other. As per the baseline survey, livestock rearing contributes 17% of the income of the people in the area.

The livestock composition shows that smaller ruminants are more than the larger ruminants. However, the number of cows is much higher than other animals in the area. Degradation of common grazing lands and frequent occurrences of drought in the recent years has raised serious questions pertaining to fodder security in the area. Loss of vegetative cover as a result of high degrees of soil erosion and overgrazing has adversely affected the productivity of these common grazing lands. Changes in the cropping pattern along with the substitution of organic fertilizer with chemical fertilizer reduced the fertility of the soil as well as the quality of fodder available from crop residue. Further, frequent occurrences of drought leading to crop failure also affected the fodder availability from crop residue which has increased the pressure on the already overexploited common grazing land. The factors mentioned above have not only led to a decline in the productivity of the livestock but have also increased instances of distress sale of livestock.

S. No	Name of Animal	Av. milk production (Lit. per day)	Actual milk production (Lit. per day)	Remarks.
1	Cow Indigenous	2 - 3	4 - 5	
2	Cow Hybrid	7 - 8	10 - 12	
3	Buffalo	5 - 6	12 - 15	

Reasons for gap in milk production

- A. Deficiency of vitamin and minerals.
- B. Lack of management and awareness.
- C. Lack of health treatment in proper way.



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5. Migration

In an economy which largely demands skilled manpower, lack of skill enhancement opportunities is an added disadvantage for the people in this area. Most of the people in the area who have resorted to non-farm employment end up as daily wage earners in the nearby cities. The ones who migrate to cities have to leave their families back in the village as their earning in the city is not able to substitute returns from farm but

only supplement it. As per the baseline survey, about 5% of the Population in the area migrate. Migration to cities and towns is usually in mining and quarrying, construction and in some small trading and manufacturing work.

Table 10: Households Migrating

	Total Population	No of Population
CHANG	4444	450
KANPURA	799	95
CHITAR	4023	425
LAKHINA PANABAORI	37	0
GIRI	4711	510
NANANA	3399	380
NAHARPURA	2258	250
PRATAPGARH	1801	205
RATDIYA	2782	310
SAILPURA	731	95
DEOLI KHURD	278	40
KANECHA UDAWATAN	330	50
Total	25593	2810

Source: Baseline Survey (2012)



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Base Line Survey Format for IWMP MIS website

Project Name :- RAIPUR IWMP-XXI

Total Geographical Area of Project (Lakh Hectares) :- 0.04361 Lakh Hectares

Treatable Area

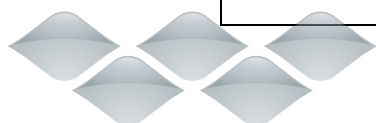
Wasteland (Lakh Hectares)	0.01964	Rainfed Agricultural Land (Lakh Hectares)	0.01449
Total Cropped Area (Lakh Hectares)	0.02397	Net Sown Area (Lakh Hectares)	0.02685
Total no. of Water Storage Structure		Total no. of Water Extracting Units	
Total storage capacity of water storage structures (cubic meters)		cum	

No. of Household

SC	447	ST	6
Others	4399		
Total Population of the project Area	25593	No. of Household of Landless people	945
Total no. of BPL Household	823	No. of small Farmer's household	1377
No. of person-days of Seasonal Migration	2810-270 Day in a Year	No. of Marginal Farmer's Household	1779

Depth of Ground Water (meters) below Ground level

Pre- monsoon	15.70	Post-monsoon	15.00
No. of person-days of Seasonal Migration	2810-270 Day in a Year		



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CHAPTER – II Socio economic Features, Problems and Scope

Table 2.1 Population & Household Details:

Total Population				
Male	Female	Total	SC	ST
12539	13054	25593	2450	50

Household Details						
BPL Household	L. Less	Small Farmer	M. Farmer	Total Household	SC Household	ST Household
823	945	1377	1779	4852	447	6

Table 2.2 Development indicators

S. No.	Development Indicators	State	Project Area
1.	Per capita income (Rs.)	16200	12400
2.	Poverty ratio	0.22	0.229
3.	Literacy (%)	60.40%	33.23%
4.	Sex Ratio	921	1041
5.	infant mortality rate	60	68
6.	maternal mortality ratio	331	338

The above table indicates (**poor,average,good**) socio economic conditions.

Table 2.3 Land Use

Land Use	Total area in Ha.				
	Private	Panchayat	Government	Community	Total
Agriculture Land	2397	0	0	0	2397
Temporary fallow	612	0	0	0	612
Permanent Fallow	755	0	0	0	755
Cultivated Rainfed	1449	0	0	0	1449
Cultivated irrigated	948	0	0	0	948
Net Sown Area	1785	0	0	0	1785
Net Area sown more than once	900	0	0	0	900
Forest Land	0	0	0	0	0
Waste Land	755	1209	0	0	1964
Pastures	0	0	0	0	0
Others	0	0	0	0	0

The project area has 755 ha of cultivable wasteland . 612 ha of fallow land (total 1367 ha) can be brought under cultivation if some irrigation source can be provided through Construction of WHS like MMS, MCD, Farm ponds etc. and also through demonstration of rainfed varieties of crops. Construction of WHS can also increase in area under irrigation which is only 21.73% 1367 ha. (45.03 % of the project area) wastelands can be brought under vegetative cover, with reasonable effort. Activities like Masonry check dams, Vegetative filter strip, V-ditches, staggered trenches, WHS (Johad) Afforestation of wastelands and Pasture development will be taken up on these Lands.

Pasture development :- the land use table shows that there is 755 Ha. pasture land (17.31%) This emphasizes the need for taking up pastureland development works through sowing of promising species of grasses Lick Dhaman shytailo hamata etc. and plantation lick Desi Babul Khejri etc.

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

Cropping Status													
S. No	Season	Crop Shown	Rainfed				Irrigated				Total		
			Varieties	Area (Ha.)	Production (Tun)	Productivity (kg/ha)	Varieties	Area (Ha.)	Production (Tun)	Productivity (kg/ha)	Area (Ha.)	Production (Tun)	
1	Kharif	Bajra	MK-30	850	824.50	970	MK-30	85	83.30	980	935	907.80	
			GWAR	285	119.70	420		45	19.25	425	330	138.95	
			JWAR	151M	650	624.00	960	151M	55	53.07	965	705	677.07
2	Rabi												
			WHEET	3077, Lok-1				3077	350	784.00	2240	350	784.00
			CHANA					DAHED YELLOW	115	98.32	855	115	98.32
			SARNISO	T-59/PUSA-VON				T-59/PUSA-VON	250	312.50	1250	250	312.50
TOTAL				1785	1568.20			900	1350.44		2685	2918.64	

Table 2.4.b Abstract of cropped Area(ha)

Area under Single crop	2685
Area under Double crop	900
Area under Multiple crop	

The Farmers are using Desi Varieties of as shown below where on Hybrid Varieties shown in table can increase the Production:-

Name of crop	Use Varieties	Recommended Varieties	Remark
Bajra	MK-30	1 navjot , Partp sanker	Use Recommended Varieties can increase the Production
Gawar	Desi / Local	Durgapura Safed , Pusa navbahar	
Jwar	Desi / Local	151M	
Wheat	3077	Ral 3077 , Raj 4037, H.I.153	
Gram		RSG-888	
Sarnso	T-59/PUSA-VON	Bayo 902, Vasundra	

Crop Rotation** will vary from project to project

Bajra	-	Wheat
Bajra	-	Fallow
Jawar	-	Mustered
Gawar	-	Fallow
Fallow	-	Gram
Gawar	-	Fallow

The table shows that only 900 Ha. are (20.63%) is double cropped area. Also the crop rotation shows that fallow lands are there. This indicates that there is scope for change in crop rotation in fields where there are fallow lands through Soil and Water conservation measures, crop demonstration and diversification in agriculture.

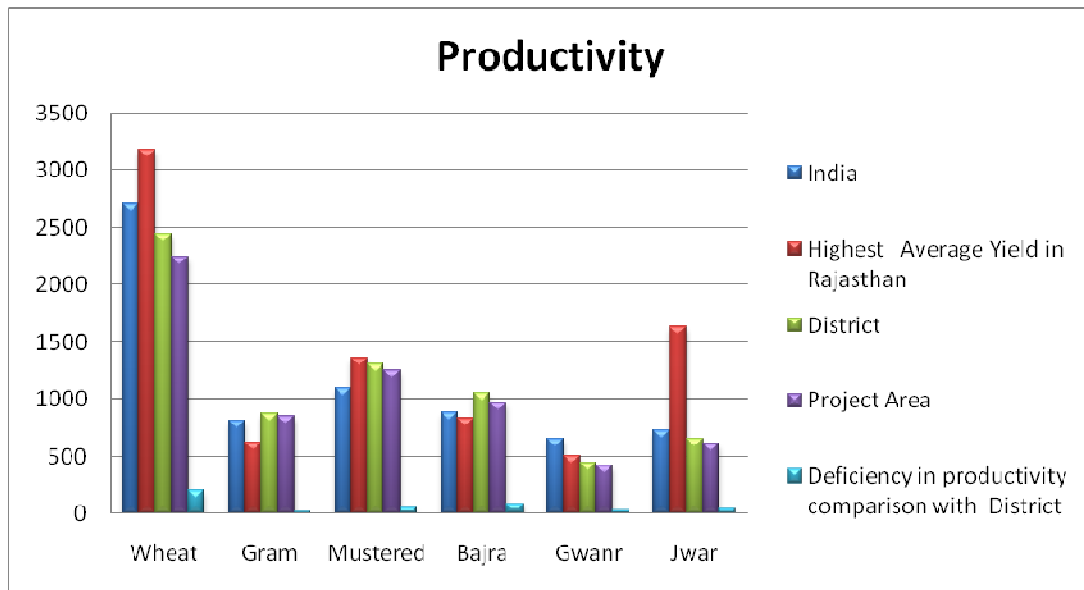
Soil and Water conservation measures besides putting fallow lands under cultivation can change the area under single cropping to double and multiple cropping.

Table 2.4.c Productivity Gap Analysis

Productivity kg/ha

Name of the crop	India	Highest Average Yield in Rajasthan	District	Project Area	Deficiency in productivity comparison with District
Wheat	2708	3185	2440	2240	200
Gram	808	622	875	855	20
Mustered	1095	1356	1300	1250	50
Bajra	886	828	1050	970	70
Gwanr	650	509	445	420	25
Jwar	730	1634	650	610	40

Shown The Bar Chart As Follow



Analysis of the above table indicate that besides national gap there is wide gap in productivity within state and even within same agro climatic zones.

The reasons for this variation are

- Use local Varieties of Seed
- Allcanase soil
- Soil depth low
- Wrong Agriculture practice
- Lack of Availability of good quality seeds of desired crop and variety in adequate quantities and time to the farmers.
- Availability of water for cultivation(18.33% is Irrigated table **No. 2.6**)

The productivity gap and reasons of it indicate potential to increase the productivity through crop demonstration. Crop demonstrations would be carried out on improved crops/ varieties, improved agronomic practices. INM, IPM, Mixed cropping, distribution of fodder seed mini kit. Demonstration of improved methods and economics of fodder crops cultivation and also distribution foundation seeds of Forage Crops for further multiplication, introduction of fodder crops in the existing crop rotations.

Table 2.5 Existing area under horticulture/Vegetables/Floriculture (ha)

Activity	Area	Species	Varieties	Recommended varieties	Production
Horticulture	4 Ha.	Nimbus	Desi	Kagji (Beeju)	1 Qt. per plant
	2 Ha.	Orange		Nagpuri, New Selar , Bader	
	5 Ha.	Awla		Graphed, Karshna , Kanchan , Kalmi	
Vegetables	0Ha.	Tomato			
Floriculture	0	0	0	0	0
Medicinal Plants	0	0	0	0	0

Table 2.6 Land holding Pattern in project area

Type of Farmer	Total House holds	Land holding (ha) irrigation source wise				Land holding (ha)Social group wise				
		Irrigated (source)	Rainfed	Private Waste Land	Total	General	SC	ST	OBC	Total
(i) Large farmer	751	362	553	286	1201	158	24	0	1019	1201
(ii) Marginal farmer	1779	255	390	205	850	143	79	1	627	850
(iii) Small farmer	1377	331	506	264	1101	186	99	0	816	1101
(iv) Landless person	945	0	0	0	0	0	0	0	0	0
Total	4852	948	1449	775	3152	487	202	1	2462	3152

65.04% land holdings belong to small and marginal farmers who own 54.96% of total cultivated area. Horticulture/vegetables could be more economical to Small and marginal farmers with irrigation source. For large farmers with no irrigation facility Horticulture/vegetables will be promoted in a part of land with farm pond/Tankan construction.

The following activities will be more beneficial for small land holdings and for diversification and income for large farmers.

Horticulture plantation, Medicinal and Aromatic Crops, floriculture: As discussed earlier . Horticulture/vegetables could be more economical to Small and marginal farmers with irrigation source. Also the project area has good potential for medicinal & aromatic crops like Sonamukhi, Isabgol, Ashwagandha, Khus, Mehandi etc.



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Agro forestry plantation: To increase the income of farmers and also for shelter belt plantation as wind velocity is high in the project area.

Setting of Vermi Compost Units - Keeping in view the side effect of residues of chemicals and fertilizers on human health the emphasis would be on cultivation of organic produce through motivating farmers and providing assistance for production of organic input, vermi compost.

Production and distribution of quality seed – There is need to ensure that good quality seed is available for cultivators for which adequate seed production would be initiated in watershed areas with the assistance of private sector and agriculture department technologies

Sprinklers and pipelines for efficient water management practices emphasis on demonstration of sprinklers with adequate financial support and convergence/private partnership.

Establishment of Green House - For growing off season vegetables seedlings and other horticultural crops under controlled atmospheric conditions of green house.

Establishment of nurseries: Most of the planting material is procured from other parts of the State/ country. The procurement of planting material from distant places causes damage to the planting material and often results in untimely supply. Hence nursery development activity in area.

Innovative hi-tech/ export oriented activities: innovative hi-tech/ export oriented projects like mushroom cultivation, floriculture, etc which are in negligible existence at present, can be implemented by individual farmers / private companies.

Drip irrigation Drip irrigation will be promoted in all horticulture plantations, vegetables, green houses and in nurseries for rational use of irrigation higher yields and quality produce.



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

S. No.	Description of Animals	Population in No.	Yield(milk/mutton/Wool)	Equ. cow units	Dry matter requirement per year qtl (7Kg per animal/day.)	Total requirement in M.T.
1	Cows					
	Indigenous	1171	4684		29919	299.19
	Crossbreed	395	3160		10092	100.92
2	Buffaloes	1413	8478		36102	361.02
3	Goat	1996	1197	988	25243	252.43
4	Sheep	2285	1371	1143	29203	292.03
5	Camel	0	0		0	0
6	Poultry	0	0	NA	0	0
7	Piggery	0	0	NA	0	0
	Total	4382	18890		130559	1305.59

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.



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Table 2.8 Existing area under fodder (ha)

S. No	Item	Unit	Area/Quantity
1	Existing Cultivable area under Fodder	Ha	2397
2	Production of Green fodder	quintals/year	71910
3	Production of Dry fodder	quintals/year	0
4	Area under Pastures	Ha	755
5	Production of fodder	quintals/year	37750
6	Existing area under Fuel wood	Ha	
7	Supplementary feed	Kgs/ day	35769
8	Silage Pits	No	-
9	Availability of fodder	quintals	109660
10	Deficiency/excess of fodder	quintals	20899

The table above shows there is fodder deficiency (Requirement is 130559 Qt. and availability 109660 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	34
2	Sprayers-manual/ power	45
3	Cultivators/Harrows	3020
4	Seed drill	15
5	Any Other (Trally)	10

Farm mechanization and seed banks: As discussed earlier 65.01% land holdings belong to small and marginal farmers who own only 34.99% 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 MNREGA Status - No. of Card Holder, activities taken so far, employment status.

S. No.	Name of Village/G.P.	Total No of job cards In G.P.	Employment Status	Activity taken up so far
1	Chang			Road , CVH , Nadi ect.
2	Chitar			Road , CVH , Nadi ect.
3	Giri			Road , CVH , Nadi ect.
4	Nanana			Road , CVH , Nadi ect.
5	Pratapura			Road , CVH , Nadi ect.
6	Ratdiya			Road , CVH , Nadi ect.
7	Relra			Road , CVH , Nadi ect.

Table 2.11 Migration Details

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)	Occupation during migration	Income from such occupation (Rs. in lakh)
CHANG	450	8To 10 Month	Employment	850 Km	Service At Individual enterprineour lick Ice-cream Trolley , Tatrctor commpressure for cooking of foods etc. in the state of Maharastra , U.P. , Punjab , Gujrat etc.	0.60-0.70 Lack per year
KANPURA	95					
CHITAR	425					
LAKHINA PANABAORI	0					
GIRI	510					
NANANA	380					
NAHARPURA	250					
PRATAPGARH	205					
RATDIYA	310					
SAILPURA	95					
DEOLI KHURD	40					
KANECHA UDAWATAN	50					
Total	2810					

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.

The existing livelihoods Village are given below

Table 2.12 (a) Major activities (On Farm)

Name of activity	No of House holds	Average annual income from the
(1.) Cultivators	3907	0.40 – 0.52 Lac
(2.) Dairying	3308	0.55 - 0.50 Lac
(3.) Poultry	0	0
(4.) Piggery	0	0
(5.) Landless Agri. Laborers	945	0.20 - 0.25 Lac

Table 2.12 (b) Major activities (Off Farm)

Name of activity	Households/ individuals	Average annual income from the
Artisans	10	25000-30000
Carpenter	25	35000-40000
Blacksmith	15	50000-60000
Leather Craft	5	40000-45000
Porter	20	
Mason	50	60000-70000
Others specify (Cycle Repair ,STD,Craft etc)	115	50000-60000

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

Table 2.13 (a) Status of Existing SHG

S. No	Name of Gram Panchyat	Name of SHG	Members	Activity involved	Monthly income	Fund available	Assistance available	Source of assistance	Training received
1.	pkax	1- Lo;a lgk;rk leqq pkax	20		2000				
2.	fprkM+	1- Lo;a lgk;rk leqq fprkM+	27		2700				
3.	uku.kk	1- efgyk Lo;a lgk;rk leqq uku.kk	32		3200				
4.	izrkiX<+	1- Lo;a lgk;rk leqq izrkiX<+	20		2000				
5.	jkrfM+;k	1- efgykLo;a lgk;rk leqq jkrfM+;k	20		2000				
6.	jsyM+k	1- Lo;a lgk;rk leqq nsoyh [kqnZ	20		2000				
		2- Lo;a lgk;rk leqq dk.kspk	20		2000				
		3- Lo;a lgk;rk leqq jsyM+k	20		2000				

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	Dry	Area irrigated	Water availability(days)
i)	Dug wells	365	80-90 feet	42	245	6-8 month
ii)	Shallow tube wells	55	150-220 Feet	17	0	10-12 month
iii)	Dug well with Pumping sets	150	120-200 Feet	5	455	8-10 month
iv)	Deep Tube Wells	125	250-300 feet	7	122	8-10 month
	Total	545		71	822	

Table 2.15 Availability of drinking water

S. No.	Name of the village	Drinking water requirement Litre/day	Present availability of drinking water Litre/day	No. of drinking water sources available	No. functional	No. requires repairs	No. defunct
	Total Village	15039x30=767790/-day	667585/-day	90	71	19	-

Table 2.16 Water Use efficiency

Name of major crop	Area (Hectare)			Total
	through water saving devices(Drip/Sprinklers)	through water conserving agronomic practices [#]	Any other (pl. specify)	
Cotton	Drip Irrigation	40	PVC Pipe	50

- The tables above indicate need for judicious use of available Water.
- Encouraging optimum use of water through installation of sprinklers on every operational wells

Table 2.17 Slope details.

Slope of Watershed

S. No.	Slope percentage	Area in hectares
1	0 to 3%	4361 Ha
2	3 to 8%	0
3	8 to 25%	0
4	> 25%	0

As most of the area has slope less than 3% construction of contour bunds can solve the problem of water erosion in agriculture fields and protect washing of top soil and manures/fertilisers.

Table 2.18 Water Budgeting

Good Catchment – Normally a funnel shaped catchment in hilly terrain with less vegetation.

Average Catchment – Catchment in the plains where there is no dense growth of vegetation.

Bad Catchment – Catchment with dense growth of vegetation & highly permeable top soil & sub soil.

Total available runoff(cum) use Strangest table Rain fall 568.90 mm

Type of Catchment	Area in ha.	Yield of runoff from catchment per ha.(cum.) use Strangest table	Total Runoff in cum
Good	1209	997.30	1205735
Average	755	748.00	564740
Bad	2397	498.60	1195144
Total	4361		2965619

Runoff trapped in existing structures

S. No.	Name	No.	Storage Capacity (cum)
i)	WHS(earthen)	9	8500
ii)	Khadin/Talab	7	65000
iii)	Farm Ponds		-
iv)	Tanka		-
v)	Anicuts	14	23500
	Total	30	97000

Runoff to be Trapped in proposed structures:

S. No.	Name	No.	Storage Capacity (cum)
i)	WHS (earthen)	29	5800
ii)	Khadin/Talab	7	10500
iii)	Farm Ponds	9	4500
iv)	Masonry Check Dam	0	0
v)	Medium Masonry Structure	14	19200
	Total	59	40000

% Runoff Trapped = Total runoff trapped x 100/ Total Available runoff = 137000/2965619x100 = 4.61%cum.

Height of all the structures proposed is between 0.60 metre to 1.50 metre. There is no structures whose water impounding height is more than 2 metre.

Table 2.19 Soil details

Soil Profile		
S. No.	Major Soil Classes	Area in hectares
1	Sandy Loam	4361 Ha
2	Degraded	0Ha
Soil Depth :		
B	Depth (Cm.)	Area in hectares
1	0.00 to 7.50	215 Ha
2	7.50 to 45.00	365 Ha
3	> 45.00	3781

C	Soil fertility Status	Kg/ha	Recommended
	N	127	100 Kg/Ha
	P	17.9	25.0 Kg/Ha
	K	182	350 Kg /Ha
	Micronutrients	PPM	Magnet

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.

Table 2.20 Erosion details

Erosion status in project Area				
Cause	Type of erosion	Area affected (ha)	Run off(mm/ year)	Average soil loss (Tones/ ha/ year)
Water Erosion				
a	Sheet	3781	121	15.25
b	Rill	215		
c	Gully	365		
Sub-Total		4361		
Wind erosion		0	0	0
Total for project		4361 Ha	121	15.25

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

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 Kalajathas, Group meetings, door to door campaign, slogans and wall writings etc. were carried out in all the habitations of 12/1,2,3,4&5 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. Gram Sabah 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 Gram Sabah approved EPA
1	CHANG	20-03-2013
2	CHITAR	
3	GIRI	
4	NANANA	28-02-2012
5	PRATAPGARH	
6	RATDIYA	27-02-2012
7	RELRA	12-08-2013

Rs. In Lac

S. No.	Names of Village/G.P.	Amount earmarked for EPA	Entry Point Activities planned Drinking Water, Solar Light	Estimated cost	Expenditure incurred (up to 2013)	Balance	Expected outcome
1	Chang	3.114	5	0.195	0.975	2.139	
2	Chitar	3.21	6	0.195	1.17	2.04	
3	Giri	1.848		0.195	0	1.848	
4	Nanana	1.268	6	0.195	1.17	0.098	
5	Pratapura	7.108	6	0.195	1.17	5.938	
6	Ratdiya	8.256	7	0.195	2.72	5.536	
7	Relra	1.362	6	0.195	1.17	0.192	
Total		26.166			8.375	17.791	

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

S. No	Name of the Village	Date on which PRA conducted
1	CHANG	20-05-2013
2	CHITAR	20-05-2013
3	DEOLI KHURD	23-05-2013
4	GIRI	23-05-2013
5	KANECHA UDAWATAN	24-05-2013
6	KANPURA	21-05-2013
7	LAKHINA PANABAORI	22-05-2013
8	NAHARPURA	28-05-2013
9	NANANA	24-05-2013
10	PRATAPGARH	27-05-2013
11	RATDIYA	25-05-2013
12	SAILPURA	27-05-2013

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 **20-05-2013 to 28-05-2013** (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.



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. 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 Stake holders	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 specialization ^{\$}	Accreditation details
1	PIAs	IGPRS	JAIPUR	Director IGPRS	GOR	W/S Management	
		NIRD	JAIPUR hksolanki@nird.gov.in	Course coordinator choupal NIRD Jaipur	GOI	GIS Base	
2	WDTs	PTC	AJMER	Training co-ordinator PTC	GOR	W/S development works	
		IGPRS	JAIPUR			W/S development works	
		State Agri. Management Training Institute	JAIPUR	Director-SAMI Jaipur		W/S development works	
3	UGs/SHGs/WCs/GPs/Community	Pali dairy	Pali	M.D. Pali	GOR	W/S development works	
		KVK pali	Pali	Seior Scientist KVK	Research Institutes	W/S development works	
		Research station	Pali	Seior Scientist	GOR	W/S development works	
		Rajigandi seva Kendra	At Gram Panchayat		GOR	W/S development works	
4	PM/SLNA	NIRD	Hydrabad		GOI		
5							

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 full fill the conditions mentioned in the operations guidelines.

IWMP- Raipur (Pali)

Table- Capacity Bulding activities in the project (FINANCIAL) *4% OF TOTAL PROJECT COST.																		
S. No.	Project Stackholders	Total No. of Persons	Total No. of Training	Rate per Training	UNIT	Total Amount	Year wise Amount vifergation											
							2012-13		2013-14		2014-15		2015-16		2016-17		Total	
							I Year No. of Tranning	Phy	Fin	II Year No. of Tranning	Phy	Fin	III Year No. of Tranning	Phy	Fin	IV Year No. of Tranning		
A	Distt. WCDC																	
1	PIAs at State Level (3 Days)	2	10	10160	No	1.016	0	0	3	0.305	3	0.305	2	0.2	2	0.2	10	1.016
2	WDTs at State (3 Days)	4	11	20320	No	2.235	0	0	2	0.406	4	0.813	3	0.61	2	0.41	11	2.235
3	2 Days Tranning for WDT & PRIS at Distt Level	30	18	25600	No	4.598	0	0	4	1.024	6	1.536	6	1.54	2	0.50	18	4.598
			39			7.849	0	0.00	9	1.74	13	2.65	11	2.35	6	1.11	39	7.849
B	PIA. level training																	
1	WDTs(4X4300=17200)	4	14	17200	No	2.408	3	0.52	4	0.688	4	0.688	2	0.34	1	0.17	14	2.408
2	Ugs	30	14	6800	No	0.952	3	0.2	4	0.272	4	0.272	2	0.14	1	0.07	14	0.952
3	SHGs	30	14	6800	No	0.952	2	0.14	5	0.34	4	0.272	2	0.14	1	0.07	14	0.952
4	WCs	30	15	6800	No	1.020	3	0.20	4	0.272	4	0.272	2	0.14	2	0.14	15	1.020
5	GPs	30	15	6800	No	1.020	3	0.20	7	0.476	3	0.204	2	0.14	0	0	15	1.02
6	Community	30	15	6800	No	1.020	2	0.14	5	0.34	3	0.204	3	0.2	2	0.14	15	1.02
7	EXPOSURE TOUR (INTER STATE)	50	4	136160	No	5.446		0.00	2	2.723	2	2.723	0	0		0	4	5.446
8	EXPOSURE TOUR (OUTER STATE)	40	2	210500	No	4.190		0	1	2.105	1	2.085		0		0	2	4.19
	Total		93			17.008	16	1.40	32	7.22	25	6.72	13	1.09	7	0.58	93	17.008
C	PM/SLNA (10X5080=50800)	6	3	50800	No	1.308	0	0	1	0.508	1	0.508	1	0.29	0	0	3	1.308
11	TOTAL PHYSICAL		135				16		42		39		25		13		135	
12	TOTAL FINANCIAL					26.166		1.40		9.46		9.88		3.73		1.69		26.166

Table- Capacity Bulding activities in the project (PHYSICAL) *4% OF TOTAL PROJECT COST.

1	2	3	4	5	6	4						5						6									
						S. No.	Project Stackholders	Total No. of Persons	Total No. of Training	Rate per Training	No of Days of Trai.	Total Am	No. of Person 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				
													2012-13	2013-14	2014-15	2015-16	2016-17	Total	2012-13	2013-14	2014-15	2015-16	2016-17	Total	2012-13	2013-14	2014-15
I Year	II Year	III Year	IV Year	V Year	I Year	II Year	III Year	IV Year	V Year	I Year	II Year	III Year	IV Year	V Year	I Year	II Year	III Year	IV Year	V Year								
A	WCDC																										
1	PIAs at State Level (3 Days)	2	10	10160	3	1.016	0	6	6	4	4	20	0	3	3	2	2	10	0	18	18	12	12	60			
2	WDTs at State (3 Days)	4	11	20320	3	2.235	0	8	16	12	8	44	0	2	4	3	2	11	0	24	48	36	24	132			
3	2 Days Tranning for WDT & PRIS at Distt Level	30	18	25600	2	4.598	0	120	180	180	60	540	0	4	6	6	2	18	0	240	360	360	120	1080			
		39				7.849	0	134	202	196	72	604	0	9	13	11	6	39	0	282	426	408	156	1272			
B	PIA																										
1	WDTs(4X4300=17200)	4	14	17200	4	2.408	12	16	16	8	4	56	3	4	4	2	1	14	48	64	64	32	16	224			
2	Ugs	30	14	6800	1	0.952	90	120	120	60	30	420	3	4	4	2	1	14	90	120	120	60	30	420			
3	SHGs	30	14	6800	1	0.952	60	150	120	60	30	420	2	5	4	2	1	14	60	150	120	60	30	420			
4	WCs	30	15	6800	1	1.020	90	120	120	60	60	450	3	4	4	2	2	15	90	120	120	60	60	450			
5	GPs	30	15	6800	1	1.020	90	210	90	60	0	450	3	7	3	2	0	15	90	210	90	60	0	450			
6	Community	30	15	6800	1	1.020	60	150	90	90	60	450	2	5	3	3	2	15	60	150	90	90	60	450			
7	EXPOSURE TOUR (INTER STATE)	50	4	136160	6	5.446	0	100	100	0	0	200		2	2	0		4	0	600	600	0	0	1200			
8	EXPOSURE TOUR (OUTER STATE)	40	2	210500	6	4.190	0	40	40	0	0	80		1	1			2	0	240	240	0	0	480			
	Total		93			17.00	402	906	696	338	184	2526	16	32	25	13	7	93	438	1654	1444	362	196	4094			
C	PM/SLNA (10X5080=50800)	6	3	50800	3	1.3080	0	6	6	6	0	18	0	1	1	1	0	3	0	18	18	18	0	54			
11	TOTAL PHYSICAL		135			26.166	402	1046	904	540	256	3148	16	42	39	25	13	135	438	1954	1888	788	352	5420			

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

1 S. No.	2 Activity	3 Executing Agency	4 Allocation out of 1% of total Project cost	5 Allocation in lacs					
				2012-13	2013-14	2014-15	2015-16	2016-17	Total
				I year	II year	III year	IV year	V year	
1	tyxzg.k {ks= xfrfof/k;kas dks n'kkZrk gqvk POP/ CLAY / WOOD / PLASTIC Is cuk gqvk ekWMyA0-15	P.I.A.	0.981		0.490	0.491			0.981
2	MhLiys cksMZs@lyxDlh cksMZ@								
3	okWyisfUVax&tyxzg.k xfrfof/k;ksa] y{;ks o izkflr vkfn dks n'kkZrh gqbZA0-05	P.I.A.	0.327				0.327		0.327
4	tyxzg.k fodkl laca/kh eqfnzr iEiysVI@fyQ ysVI@pkVZ@iksLVj@vkfn0-05	P.I.A.	0.328		0.328				0.328
5	Ukkjk ys[ku 0-20	P.I.A.	1.308	1.209	0.099				1.308
6	IQyrk dh dgkuh;ksa dh ohfM;ksaxzkQh@ QksVksxzkQh @ y?qkfQYe ,oa d"kdks ls lk{kjkrdkj@okrkZ A 0-20	P.I.A.	1.308				0.196	1.112	1.308
7	lkaLd`frd R;kSgkj @ esys vkfn ds volj ij iznZ'kuh@ uqDdM+ ukVd@ dViqryh izn'kZu 0-15	P.I.A.	0.981			0.490	0.491		0.981
8	jkf= xks"Bh @ Hkw laj{k.k llrkg@ psruk jSyh (in ;k=k) @ tyxzg.k fodkl dk lans'k nsus okys lkaLd`frd dk;ZØe@ d"kd fnol dk vk;ksstu ,oa {ks= Hkze.k fnol dk	P.I.A.	1.308		0.784	0.130	0.394		1.308

	vk;kstu bR;kfn@ 0-20								
	dqy		6.541	1.209	1.701	1.111	1.408	1.112	6.541



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WAPCOS LIMITED GURGAON 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 LIMITED GURGAON** are :

- Delineation of Macro/Micro watershed boundaries.
- Digitised Khasra 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.
- Contours at 1 meter interval, slope 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 VIII).The GIS based intervention map, PRA based intervention map are annexed as VIII.

B)Livelihood Action Plan (LAP):

An awareness programme has been undertaken at Gram Sabah 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/ asset less households. Details of funds available & their utilisation is as under :

(i) Total project cost Rs.654.15Lacs.

(ii) Funds available under livelihood component is 9% of total project cost= Rs. 58.574 Lac.

(a) Seed money for SHGs as revolving fund = Rs. 42.125 Lac.

(minimum 60% of livelihood component)

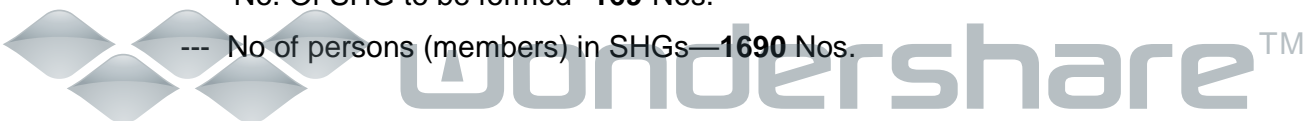
-- No. Of SHG to be formed--**169**-Nos.

--- No of persons (members) in SHGs—**1690** Nos.

(b) Seed money for enterprising individuals = Rs. 4.75 Lac.

(minimum 10% of livelihood component)

-- No of persons identified as enterprising individuals **19** Nos.



List of persons & Proposed Activities.

S. No	Watershed Committee	No. of Persons	Activity Proposed
1	Chang	1	1. Carpenter 2. Mason 3. Sewing / Knitting
2	Chitar	1	
3	Giri	1	
4	Nanana	1	
5	Pratapura	1	
6	Ratdiya	1	
7	Relra	1	

(c) Funds for Enterprising SHG/Federations of SHG

(Maximum 30% of livelihood activities) = Rs. – 12.00Lac

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.

Details of enterprising SHG/federation is given below :

S. No.	No. of SHG/ SHG federation	Project Name	Project Cost in Lac	Grant in aid 50% of project cost or 2 Lac whichever is less	Bank Loan
1	6	Dairy	12		
2					
	Total		12		

* Details of project activities can be prepared in coming years after formation of SHG federation or as the case may be.

C) Production Plan:

An awareness programme has been undertaken at Gram Sabah 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 is as under :

(iii) Total project cost Rs. 654.15 Lac.

(iv) Funds available under Production System & Micro enterprises component is 10% of total project cost= Rs. - 65.415 Lac.

No. of persons & Proposed Activities for production system

S. No	No./Area in Ha. of Beneficiaries Person	Activities Proposed
1		Crop Demonstration
	410 No./164 Ha.	1. Kharif
	184 No./74 Ha.	2. Rabi
2	49 Ha/ 123 No.	Horticulture
3	328 No.	Nedap Compost
4	1479 No.	Vegetable Kit
5	5596 No.	A.I.

(viii) Funds for Animal Husbandry Activities 11.754 Lac.

Details of is Animal Husbandry activities given below :

S. No.	Name of Activity	Quantity	Unit cost	Cost of Activity in Lac		Remark Convergence with
				From Project Fund	From Convergence Fund	
1	A.I. No.	5596	0.0015	8.394		A.H. Department
2	A.H. CAMP	14	0.24	3.360		A.H. Department
	TOTAL			11.754		

Awareness Programme

-Slogan Wall Painting,

Scientific Animal Husbandry Practices ; Seminars / Debates / Pamphlet distribution/ Stickers/ Chetna 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 Hygenic 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 schemes.



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Proposed Development Plan

Signatures
Project Manager, WCDC
Distt. – Pali (Raj.)



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CHAPTER - I V

Activity wise Total Abstract of cost

Activity	Unit	Quantity	Unit cost	Total cost	Cost from Project Fund			Quantity	Unit cost	Convergence Fund	Beneficiary Contribution
					Labour	Material	TOTAL				
tyxzg.k fodkl dk;Z pj.k (56%)											
d`f`k Hkwfe dk;Z ¼flafpr½											
Earthen Bunding	Ha	1449	0.0842	122.035	118.485	3.550	122.035	0	0.1078	0.000	9.763
Pipe spilway (Weste Weir)	No	292	0.0470	13.724	3.697	10.027	13.724	0	0.0500	0.000	1.098
KHADIN	No	4	4.0700	51.700	13.440	2.840	16.280	7	5.0600	35.420	1.302
Farm pond	No	9	1.3500	27.810	11.703	0.447	12.150	9	1.7400	15.660	0.972
Total				215.269	147.325	16.864	164.189			51.080	13.135
¼vd`f`k Hkwfe½											
pjkkxg fodkl	Ha	120	0.6966	83.587	72.316	11.272	83.587	0		0.000	
NADI IN P.D BLOCK	No	3	4.0700	17.270	10.080	2.130	12.210	1	5.0600	5.060	
TANKA IN P.D BLOCK	No	6	1.4400	10.490	3.000	5.640	8.640	1	1.8500	1.850	
Open Contour Trench	Ha	198	0.0907	41.359	17.382	0.576	17.959	200	0.1170	23.400	
pjkkxg fodkl (Private Farmer)	Ha	164	0.0842	16.400	13.410	0.402	13.812	24	0.1078	2.587	0.801
Total				169.105	116.188	20.020	136.208			32.897	0.80
ukyk mipkj dk;Z											
M.M.S.(Anicut)	No	3	4.82000	25.420	6.960	7.500	14.460	2	5.4800	10.960	
M.M.S.(Anicut 5m)	No	11	3.800	54.550	17.517	24.283	41.800	3	4.2500	12.750	
L.S.C.D	No	81	0.058	17.856	1.900	2.832	4.732	207	0.0634	13.124	
Gali plug	Ha	29	0.110	4.450	3.090	0.100	3.190	9	0.1400	1.260	
Gabion Structure	No	26	0.067	1.747	0.826	0.922	1.747	0		0.000	
Total				104.023	30.293	35.637	65.929			38.094	0.00
GRAND TOTAL				488.397	293.806	72.520	366.326			122.071	13.936
Livelihood System (9 %)											
Revolving Fund to SHG (60 % minimum)	No	169	0.25000	42.125	0	42.125	42.125				
Revolving Fund to enterprising individual (10 % maximum)	No	19	0.25000	4.750	0	4.750	4.750				
Grant in aid to enterprising SHG or Federation of SHGs individual (30 % maximum)	No	6	2.00000	36.000	0	12.000	12.000	12	2.0000	24.000	
Total				82.875	0.000	58.875	58.875			24.000	
Production System (10%)											
A.I.	No	5596	0.0015	8.994	0	8.394	8.394	400	0.0015	0.600	1.679
A.H. CAMP	No	14	0.24	3.360	0	3.360	3.360				
[kjhQ	No	410		8.425	0	8.425	8.425				1.685
jch	No	184		4.744	0	4.744	4.744				0.949
Qynkj ikS/kkjksi.k	Ha	92	0.24	51.799	13.815	8.289	22.104	59	0.5033	29.695	4.421
usMsi dEikslV	No	328	0.02	6.560	0	6.560	6.560				1.312
Kitchen garden KIT	No	1479	0.008	11.832	0	11.832	11.832				2.366
Total				95.714	13.815	51.604	65.419			30.295	12.412
GRAND TOTAL				666.99	307.62	183.00	490.62			176.37	26.35

*Tentative and will vary during execution according to beneficiary

Signatures
PIA P.S. Raipur

Signatures
Project Manager, WCDC
Distt. - PALI

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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		Total	
						Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Admn.				65.415				3.271		9.812		20.933		18.316		13.084		65.416	
Monitoring				6.542				0.000		1.308		2.617		0.000		2.617		6.542	
Evaluation				6.542				0.000		1.962		0.000		2.290		2.290		6.542	
EPA				26.166				26.166		0.000		0.000		0.000		0.000		26.166	
I & CB				32.708				3.271		16.354		10.793		2.290		0.000		32.708	
DPR				6.542				6.542		0.000		0.000		0.000		0.000		6.542	
Total (A) 22%				143.91				39.250		29.436		34.343		22.896		17.991		143.92	
(B)	Natural resource management(56%)																		
Conservation measures for arable land(private land)																			
Earthen Bunding	Ha	1449	8422	122.035					512	43.121	646	54.406	291	24.508				1449	122.035
Pipe spilway(Weste Weir) No	No	292	4700	13.724					104	4.888	131	6.157	57	2.679				292	13.724
Khadin	No	4	407000	16.280					2	8.140	2	8.140	0	0.000				4	16.280
Farm pond	No	9	135000	12.150					2	2.700	3.5	4.725	3.5	4.725				9	12.150
pkjxkg fodkl																			
Pasture Development	Ha.	120	69656	83.587					43	29.952	53	36.918	24	16.717				120	83.587
NADI IN P.D BLOCK	No	3	407000	12.210					1	4.070	1.5	6.105	1	2.035				3	12.210
TANKA IN P.D BLOCK	No	6	144000	8.640					2	2.880	2.0	2.880	2	2.880				6	8.640
Open Trench Contour	Ha	198	9070	17.959					66	5.986	98	8.889	34	3.084				198	17.959
Pasture Development (privete Farmer)	Ha	164	8422	13.812					48	4.043	79	6.653	37	3.116				164	13.812

Drainage line treatment																	
M.M.S.(Anicut)	No	3	482000	14.460				1.5	7.230	1.5	7.230	0	0.000			3	14.460
M.M.S.(Anicut 5m)		11	380000	41.800				4.0	15.200	4.5	17.100	2.5	9.500			11	41.800
L.S.C.D	No	81	5842	4.732				28	1.636	35.5	2.074	17.5	1.022			81	4.732
Gali plug	Ha	29	11000	3.190				4	0.440	14	1.540	11	1.210			29	3.190
Gabion Structure	No	26	6721	1.747				9	0.605	11	0.739	6	0.403			26	1.747
Total (B)				366.326					130.890		163.556		71.880				366.326
(C)	Production System (10%)																
Production measures for arable land																	
Qynkj ikS/kkjksi.k dk;Z																	
A.I	No	5596	150	8.394				2410	3.615	1486	2.229	868	1.302	832	1.248	5596	8.394
A.H. CAMP	No	14	24000	3.360				3	0.720	3.5	0.840	4	0.960	3.5	0.840	14	3.360
[kjhQ	No	410		8.425				85	1.753	128	2.628	125	2.572	72	1.473	410	8.426
jch	No	184		4.743				34	0.879	57	1.454	58	1.522	35	0.889	184	4.744
Qynkj ikS/kkjksi.k	Ha	92	24000	22.104				9	2.255	38	9.022	41	9.924	4	0.902	92	22.104
usMsi dEiksLV	No	328	2000	6.560				54	1.080	136	2.720	109	2.180	29	0.580	328	6.560
Inovative Works				0.000													0.000
Vegitable Kit	No	1479	800	11.832				358	2.864	507	4.056	526	4.208	89	0.712	1480	11.840
Livelihood System 9%																	
Lo;a lgk;rk lewg (R/F.)	No	169	25000	42.125				24	6.000	47	11.750	51	12.750	47.000	11.625	169	42.125
R.F To Individual Enterprencurs	No	19	25000	4.750				3	0.750	9	2.250	4	1.000	3.000	0.750	19	4.750
Grant in aid to Federation	No	6	200000	12.000				0	0.000	3	6.000	3	6.000	0.000	0.000	6	12.000
Total (C)				124.29					19.916		42.949		42.418		19.019		124.30
(D) Consolidation				19.6245									19.625				19.625
Grand Total				654.16				39.250	180.243		240.848		156.819				654.17

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Through Convergence 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		Total	
					Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
(B)	Natural resource management(56%)																	
Conservation measures for arable land(private land)																		
Khadin	No	7	506000	35.420					2	10.626	3	14.168	2	10.626			7	35.420
Farm pond	No	9	174000	15.660					3	4.698	3	6.264	3	4.698			9	15.660
pkjxkg fodkl																		
NADI IN P.D BLOCK	No	1	506000	5.060					0	1.518	1.0	2.024	0	1.518			1	5.060
TANKA IN P.D BLOCK		1	185000	1.850					0	0.555	1.0	0.740	0	0.555			1	1.850
Open Contour Trench	Ha	200	11700	23.400					60	7.020	80	9.360	60	7.020			200	23.400
Pasture Development (private Farmer)	Ha	24	10780	2.587					7	0.776	10	1.035	7	0.776			24	2.587
Drainage line treatment																		
M.M.S.(Anicut)	No	2	548000	10.960					1	3.288	1	4.384	1	3.288			2	10.960
M.M.S.(Anicut 5m)		3	425000	12.750					1	3.825	1	5.100	1	3.825			3	12.750
L.S.C.D	No	207	6340	13.124					62	3.937	83	5.250	62	3.937			207	13.124
Gali plug	Ha	9	14000	1.260					3	0.378	4	0.504	3	0.378			9	1.260
Total (B)				122.071						36.621		48.828		36.621				122.071
(C)	Production System (10%)																	
Production measures for arable land																		
Qynkj iKS/kkjksi.k dk;Z																		
A.I	No	400	150	0.600					100	0.150	100	0.150	100	0.150	100	0.150	400	0.600
Qynkj iKS/kkjksi.k	Ha	59	50330	29.695					15	7.550	15	7.550	15	7.550	14	7.046	59	29.695
Livelihood System 9%																		
Grant in aid to Federation	No	12	200000	24.000					3	6.000	3	6.000	3	6.000	3.000	6.000	12	24.000
Total (C)				54.29						13.700		13.700		13.700		13.196		54.29
Grand Total				176.37						50.32		62.53		50.32		13.20		176.37

Signatures
PIA P.S. Raipur

Signatures
Project Manager, WCDC
Distt. - PALI

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	15.00	13.50	
2	Ground water structures repaired/ rejuvenated	No.	-	-	
3	Quality of drinking water	Description	N.A	N.A	
4	Availability of drinking water	Description	667585lit/day	767840Lit/Day	
5	Change in irrigated Area	Ha	948	1070	
6	Change in cropping/ land use pattern	Description			
7	Area under agricultural crop	Ha	2397	2640	
	I Area under single crop	Ha	1785	1910	
	li Area under double crop	Ha	900	1070	
	lii Area under multiple crop	Ha	0		
8	Change in cultivated Area	Ha			
9 yield of major crops of area	Yield of Bajra	q/ha	16.23	17.00	
	Yield of Wheat	q/ha	27.40	28.37	
	Yield of Gram	q/ha	8.14	8.75	
	Yield of Mustard	q/ha	10.15	11.00	
10 production of major crops of area	Production of Bajra	ton	907.80	1050.00	
	Production of Wheat	ton	784.00	901.00	
	Production of Gram	ton	98.32	120.00	
	Production of Mustard	ton	312.50	467.50	
11	Area under vegetation	Ha	10	50	
12	Area under horticulture	Ha	11	271	
13	Area under fuel	Ha	5	10	
14	Area under Fodder	Ha	2397	3750	
15	Fodder production	Q	109660	130850	
16	Milk production	Litres/day	18890	25000	
17	SHGs Active	No.	25	194	
18	No. of enterprising individuals	No.	16	35	
19	Income	Rs.in la	0.124	0.20	
20	Migration	No.	2810	2250	
21	SHG Federations formed	No.		15	



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Critical Assumption

- No severe droughts/ unexpected floods/ natural disasters
- Adequate funds are allocated for the same and released on time.
- There is no significant pest/ disease attack, and if so, then it will have been contained before irreversible damage is done.
- Adverse market conditions do not persist long.
- Sound macro-economic and growth conditions continue and the benefits are widely distributed particularly in the rural areas.
- Facilitating agencies and resource providers have the required competent staff so that timely and appropriate technical advice and services are provided to farmers whenever required.
- The Capacity Building Plan is implemented, monitored and modified to address evolving needs and feedback from participants.

Means of Verification of indicators

- Baseline surveys like household income ,expenditure, health and nutrition etc at the beginning, mid-term and end of the project period
- Annual participatory assessment by communities during project period.
- Regular project monitoring reports prepared by project monitoring teams/ agencies.
- Membership and other Records, Minutes of Meetings maintained by the SHGs, WCs/ Individual beneficiaries/project-related village and local bodies/PRIs.
- External review missions
- Data maintained by Government department (Revenue, Agriculture, Groundwater, Irrigation, Animal Husbandry)



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CHAPTER - VIII Enclosures -

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

Documents of Agreements:

Proceedings of gram Sabah for EPA approval

Proceedings of gram Sabah Resolution for committee constitution

Proceedings of gram Sabah for DPR approval

Proceeding of Standing Committee of P.S. for DPR approval.

Proceeding of Standing Committee of Z.P. for DPR approval.

Assistant Engineer, PIA
WD & SC P.S. RAIPUR

Project Manager, WCDC
WD & SC. Distt.- PALI

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