

GOVERNMENT OF RAJASTHAN

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



NAME OF PROJECT : SAHADA IWMP - XIX

EFFECTIVE AREA OF PROJECT : 5477 Ha.

COST /HA. : 0.12 Lac.

COST OF PROJECT : 657.24 Lac.

BLOCK : SAHADA

DISTRICT : BHILWARA

PIA – ASSISTANT ENGINEER

W.D. & S.C., P.S. - SAHADA

PROJECT MANAGER, WCDC

W.D. & S.C., DISTRICT - BHILWARA

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Proceedings of Zila Parishad Standing Committee for DPR approval

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 Sabha. The plan and DPR document of IWMP - XIX Project, at P.S. – Sahada District - Bhilwara 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 Chairman/	Signature Secretary WC	Signature WDT members	Signature Junior Engineer P.S.Sahada	Signature Assistant Engineer & PIA P.S.- Sahada	Signature Project Manager,WCDC Distt.- Bhilwara
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1

2

3

4

Detail of Project

1. Name of Project : IWMP - XIX
2. Sanction No. & date of Project : F-20(I-87) IWMP/WDSC/2011-2
/5632-43 DATE :- 17/08/2012
3. Macro & Micro Nos : 1/3,4 3/2,3,4
4. Deviation from Project Sanctioned :

Items	As per Project Sanctioned		As proposed in DPR	
Project Name	No. Of G.P	No. Of Villages	No. Of G.P	No. Of Villages
IWMP XIX	5	14	6	14

Items	As per Project Sanctioned	As proposed in DPR
Project Area	5477 Ha.	5477 Ha.
Macro/Micro No	1/3,4 3/2,3,4	1/3,4 3/2,3,4
Name of Gram Panchayats	Amli, Cheer Khera, Dhosar, Nandsa, Shivrati	Amli, Cheer Khera, Dhosar, Nandsa, Shivrati, Ummedpura
Name of Villages	Amli, Bagpura, Dhosar, Gatheela, Gatheela Khera, Unchkiya , Jhoompura, Nandsa Khalsa, Dariba, Kala Dhoondha, Salyawari, Shivrati, Cheedkhera, Sakriya	Amli, Cheer Khera, Baghpura, Dhosar, Gatheela, Gatheela Khera, Sakriya, Satdhoodiya, Jhoompura, Nandsa, Kala Dhoondha, Salyawari, Shivrati, Surat Singh Ji Ka Khera
Project Cost (Rs. in Lakhs)	657.24 Lac.	657.24 Lac.

• CHAPTER – I

INTRODUCTION

Location.

The Project is located in Sahada Block, of Bhilwara 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 Kms 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)	Sahada (IWMP) 19/2011-12
(a)	Name of Catchment	Local Nalla
(b)	Name of watershed area (Local Name)	IWMP 19 Sahada
(c)	Project Area	5477 Ha
(d)	Net treatable Area	5477 Ha
(e)	Cost of Project	657.24 Lack
(f)	Cost/hectare	12000/- Per Ha
(g)	Year of Sanction	2011-12
(h)	Watershed Code	07130103,07130104,07140302,07140303,07140304
(i)	No. of Gram Panchayats in project area	6 No
(j)	No. of villages in project area	14 No
(k)	Type of Project	Other
(l)	Elevation (metres)	450-500 m
(m)	Major streams	10.800 K.M.
(n)	Slope range (%)	0-3%

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	Amli	1/4, 3/2	1. Amli	824000702866100	1551	97
2	Cheer Khera	1/,4	1. Cheer Khera	824000702865900	1213	1046
3	Dhosar	3/2	1. Baghpura	824000702871000	147	68
4		3/2	2. Dhosar	824000702866800	732	684
5		3/2	3. Gatheela	824000702870900	329	74
6		3/2	4. Gatheela Khera	824000702870800	104	51
7		3/2	5. Sakriya	824000702871100	309	91
8		3/2,3	6. Satdhoodiya	824000702867100	298	275
Total Area of G.P. Dhosr					1919	1243
9	Nandsa	3/3	1.Jhoompura	824000702865800	321	131
10		1/3, 3/4	2. Nandsa	824000702865700	1849	1105
Total Area of G.P. Nandsa					2170	1236
11	Shivrati	3/2,3	1.Kala Dhoondha	824000702866900	579	579
12		3/3	2. Salyawari	824000702867300	761	82
13		3/3,4	3. Shivrati	824000702867200	1185	1142
Total Area of G.P. Nandsa					2525	1803
14	Ummedpura	1/3	1. Surat Singh Ka Khera	824000702862100	436	52
		TOTAL			9814	5477

The watershed falls in Agro climatic Zone IV.The soil texture is Sandy Loom . The average rainfall is 56.60 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 3093 Ha (Maize, Wheat, Gram & Mastered), 56.47% land is under cultivation, 43.53% land fallow, 43.38% land is wasteland. 18.33% land is irrigated through well, Tube well, & Minor Irrigation Project. Of G.P. Tanks

684 No of households are BPL (22.19% households) 668 are landless households(21.67% households) and 1988 household are small and marginal farmers(64.50%household). Average land holding in the area is 1.60 ha. 38.14% area is single cropped area and 18.33% 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 15039 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	2001	462.65
2	2002	319.78
3	2003	383.67
4	2004	919.34
5	2005	536.29
6	2006	1115.09
7	2007	455.78
8	2008	469.87
9	2009	335.67
10	2010	660.56
11	2011	573.00
Average Rainfall (Last 10 Years)		566.51 mm

2. Average Monthly rainfall (Last Ten Years)

	Month	Rainfall(mm)
i)	June	51.65
ii)	July	178.35
iii)	August	206.36
iv)	September	78.55

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 BHILWARA	CVH	419	325.397
			FARM POND	14	
			Open Contour Trench	-	
			Road Side Plantation	-	
			Horticulture Plantation	600	
			CVH Other Alu	569	
			CVH Other Alu+Kar		
2.	HORTICULTURE	A.D. Horticulture	Flower Farming	40	40.026
			Masala Farming	15	
			Madison Farming	12	
			Bans Production	24	
			Green House	30	
3.	ANIMAL HUNBANDARY	Dy. director Veterinary	Fish	2	62.452
			Hen	23	
			A.I.	1025	
			A.H. Camp	1640	
			Animal Insurance Policy	815	
4.	AGRICULTURE	Dy. Director Agriculture	Zipsam	210	42.140
			Irrigation Pipeline	125	
			Sprinkler System	45	
			Drip Irrigation	48	
5.	Social Welfare		Higher education	55	4.500
6.	Rudest/LFS		Technical Training	90	8.300
7.	Others		Jevik bad	175	36.424

Details of infrastructure in the project areas:-

Parameters		Status			
(i)	No. of villages connected to the main road by an all-weather road	9 No.			
(ii)	No. of villages provided with electricity	14 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)	18	7	1	
(v)	No. of villages with access to Primary Health Centre	1			
(vi)	No. of villages with access to Veterinary Dispensary	0			
(vii)	No. of villages with access to Post Office	1			
(viii)	No. of villages with access to Banks	1			
(ix)	No. of villages with access to Markets/ mandis	2			
(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	8	41	0
(xiii)	No. of villages with access to Anganwadi Centre	22			
(xiv)	Any other facilities with no. of villages (please specify)	6 No. (Rajiv Gandhi Seva Kendra)			
(xv)	Nearest KVK	Bhilwara			
(xvi)	cooperative society	6			
(xvii)	NGOs	Nil			
(xviii)	Credit institutions				
	(i) Bank	Nil			
	(ii) Cooperative Society	6			
(xix)	Agro Service Centre's	Nil			

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

1	2	3
S.No	Particulars	Details of DWDU
1.	PM, DWDU	Sh. Ghanshyam Dad
2.	Address with contact no., website	Zila Parisad Bhilwara
3.	Telephone	01482-239298
4.	Fax	01482-231192
5.	E-mail	dwdu.bhilwara@gmail.com

PIA particulars

1	2	3
S. No	Particulars	Details of PIA
6.	Name of PIA	Sh.G.Dad
7.	Designation	Assistant Engineer
8.	Address with contact no., website	Zila Parisad Bhilwara
9.	Telephone	01482-239298
10.	Fax	
11.	E-mail	ghanshyam.dad@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	Harsh warden singh Rathor	M	31	MSW	3 Month	Social Sincelist	For Make of SHG
2	Bhagchand Soni	M	24	2 Year Diploma	3 Month	Vetenary Sincelist	Animal Husbandry Work
3						Agriculture Sincelist	
4						Engineer	

Details of Watershed Committees (WC)

S. No.	Name of WCs	Date of Gram Sabha 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	Nandsa (Khalsa)	21/09/2012	N.R.	President	Sh. Rama/Mangu ji Bhil	M	ST	SF		Literate
				Secretary	Smt. Nirmala Devi/Hari Shanker Pareek	F	GEN.	Landless		B.A.
				Member	Sh. Surajmal/Deva Gadri	M	OBC	SF		Illiterate
				Member	Sh. Bheru Lal/Lehru Lal Gadri	M	OBC	BF		V
				Member	Sh. Laxman/Deva Gadri	M	OBC	MF		VIII
				Member	Smt. Tulsi/ Mangu Bhil	F	ST	MF		Illiterate
				Member	Smt. Chanda Devi/ Narayan Lal Sen	F	OBC	Landless	SHG	5
				Member	Smt. Krishna Devi/Anil Sen	F	OBC	Landless	SHG	Literate
				Member	Smt. Jamni/ Mangu Nayak	F	SC	MF	SHG	Literate
				Member	Smt. Geeta/ Prabhu Nayak	F	SC	Landless	SHG	Literate

Details of Watershed Committees (WC)

S. No.	Name of WCs	Date of Gram Sabha 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	Amli	24/09/2012	N.R.	President	Sh. Ladu Lal/ Devi Lal Nayak	M	SC	SF		X
				Secretary	Sh. Bheru Lal/ Madhu Lal Tali	M	OBC	Landless		B.A./B.ED
				Member	Sh. Bhanwar Lal/ Bheru Lal Jat	M	OBC	BF		V
				Member	Sh. Nanu/ Nathu ji Chamar (Bairwa)	M	SC	SF		Litrated
				Member	Sh. Madhu Lal/ Choga Ji Tali	M	OBC	MF		V
				Member	Smt. Bakshu Devi/ Kalu ji Damami	F	SC	MF	SHG	V
				Member	Smt. Chandi Devi/ Ghisu ji Sargara	F	OBC	MF		Litrated
				Member	Smt. Kailashi Devi/ Kailash ji Sargara	F	OBC	MF		Litrated
				Member	Smt. Heena Devi/ Shyam Lal Sharma	F	GEN.	Landless		VIII
				Member	Smt. Ganga/ Om Prakash Rao	F	OBC	MF		V

Details of Watershed Committees (WC)

S. No.	Name of WCs	Date of Gram Sabha 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	Cheed Khera	28/09/2012	N.R.	President	Smt. Agi Devi Gadri	F	OBC	BF		Literate
				Secretary	Sh. Gokal Ji Gadri	M	OBC	SF		X
				Member	Sh. Gopi ji Jat	M	OBC	BF		V
				Member	Sh. Nanu Ram Bairwa	M	SC	SF	SGSY	VIII
				Member	Sh. Shyam Lal Kumhar	M	OBC	SF		VII
				Member	Sh. Ladu Lal Kharol	M	SC	SF		Literate
				Member	Smt. Santosh Devi/ Ram Lal Bhil	F	ST	SF	SSG	Literate
				Member	Smt. Bhuri Devi/ Ram Lal Bairwa	F	SC	SF	SGSY	V
				Member	Sh. Mohan ji Gadri	M	OBC	BF		Literate
				Member	Sh. Kailash Sharma	M	GEN.	SF		X

Details of Watershed Committees (WC)

S. No.	Name of WCs	Date of Gram Sabha 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	Ummed pura	20/09/2012	N.R.	President	Sh. Jodhraj ji/ Heera ji Gurjar	M	OBC	SF		Litrade
				Secretary	Sh. Kailash/ Udairam ji Salvi	M	SC	Landless		B.A. Appeared
				Member	Sh. Mangu/ Trilok ji Gurjar	M	OBC	BF		V
				Member	Sh. Udairam/ Naru ji Salvi	M	SC	BF		VIII
				Member	Sh. Keshu ji/ Deepa ji Gurjar	M	OBC	BF		Litrade
				Member	Sh. Narayan/ Gangaram Gurjar	M	OBC	BF		V
				Member	Smt. Dhapu Devi/ Mithu Lal Salvi	F	SC	Landless	SHG	Litrade
				Member	Smt. Kanku Devi/ Karma ji Banjara	F	SC	SF	SHG	Illitrade
				Member	Smt. Muli Devi/ Bheru Lal Salvi	F	SC	Landless	SHG	Litrade
				Member	Smt. Guddi/ Shanker Banjara	F	SC	Landless	SHG	Illitrade
				Member	Smt. Metabi/ Raimal Salvi	F	SC	BF	SHG	Illitrade

Details of Watershed Committees (WC)

S. No.	Name of WCs	Date of Gram Sabha 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	Shivrati	27/09/2012	N.R.	President	Sh. Mangi Lal Nayak	M	SC	SF	UG	VII
				Secretary	Sh. Amba Lal Bhil	M	ST	SF	UG	X
				Member	Smt. Hagami Devi/ Narayan Salvi	F	SC	MF	SSG	Literate
				Member	Smt. Ratni Devi/ Kaila Bhil	F	ST	MF	UG	Literate
				Member	Sh. Ratan Lal/ Sukh Lal Suthar	M	OBC	SF	UG	V
				Member	Smt. Narayani/ Satyanarayan Nayak	F	SC	SF	SSG	Literate
				Member	Sh. Shanker Lal/ Heera Lal Jat	M	OBC	BF	SSG	Literate
				Member	Sh. Mohan Singh/ Laxman Singh	M	OBC	BF	UG	XII

Details of Watershed Committees (WC)

S. No.	Name of WCs	Date of Gram Sabha 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	Dhosar	20/10/2012	N.R.	President	Sh. Gulab Singh ji	M	OBC	Landless		IX
				Secretary	Sh. Ghanshyam/ Badri Lal Vaishnav	M	OBC	Landless		XII
				Member	Sh. Gokal ji/ Pratap ji Bairwa	M	SC	SF		Litrare
				Member	Sh. Ramchandra ji/ Bhagirath ji Prajapat	M	OBC	BF		Litrare
				Member	Sh. Manohar Singh ji/ Bheru Singh ji	M	OBC	BF		VIII
				Member	Smt. Sakuntala Soni/ Dhanraj ji Soni	F	OBC	Landless	SHG	V
				Member	Smt. Anita Soni/ Mukesh ji Soni	F	OBC	Landless	SHG	VIII
				Member	Smt. Sarda Sen/ Amba Lal ji Sen	F	OBC	Landless	SHG	V
				Member	Smt. Badam Sharma/ Balu Ram ji Sharma	F	GEN	Landless	SHG	V
				Member	Smt. Prem Devi/ Heera Lal Javdiya	F	OBC	Landless	SHG	VIII

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 3093 Ha. Land is Arable & 1769 Ha. Wasteland Land 228 Ha. is fallow can be brought under cultivation.

1004 Ha. is only Irrigated and with efforts this can be increased to 905 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 Sahada 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 15039 with nearly 16.11% of the population belonging to the Scheduled Caste and 9.00% of the population Scheduled Tribe communities. The sex ratio in the area is 1009. The area has a low level of literacy of 45.72% as compared to 60.40% at the State level. With the female literacy rate being a mere 31.43%, the status of literacy in the area is one of the indicators of the deplorable plight of the women in the area.

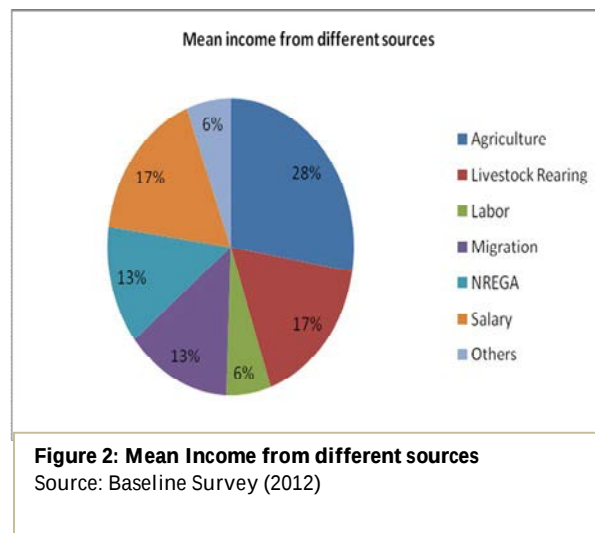
Table 3: Demographic Profile of Sahada Project Area		
POPULATION		
Total population		15039
Male Population (%)		49.88
Female Population (%)		50.22
Sex ratio (female per thousand males)		1009
% Population of Scheduled Caste		16.11
% Population of Scheduled Tribe		9.00
Literacy rate Total (percent)		45.72
Literacy rate male (percent)		68.57
Literacy rate female (percent)		31.43

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.



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 nallahs. 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.

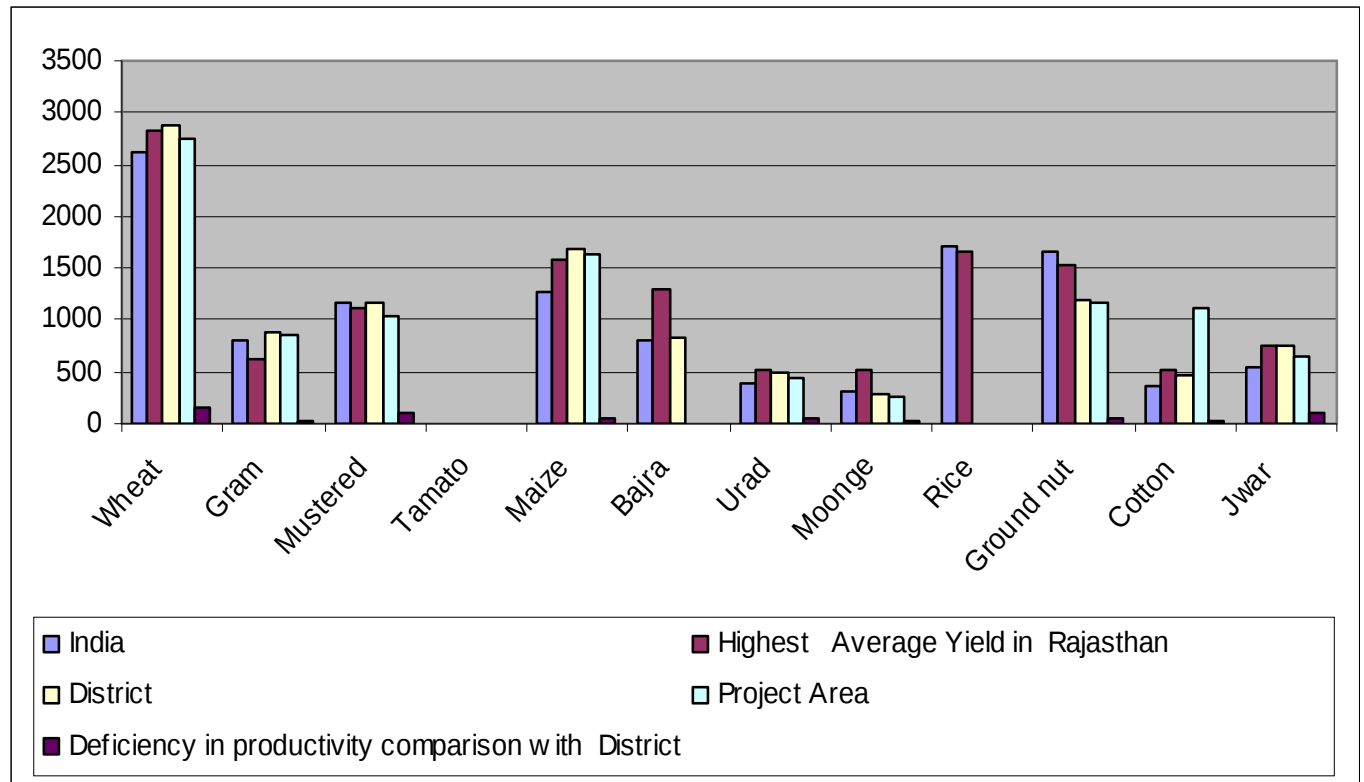
Kharif is the main cropping season in the area. Major cereals grown during Kharif include maize, bajra and jowar. Crop production during *Rabi* remains limited to such farmlands which have access to irrigation. Wheat is the main cereal crop grown during *Rabi*. Besides cereal crops, pulses, fodder crops 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	MAIZE	MK-30	830	1347.09	1623	MK-30	255	414.375	1625	1085	1761.465
		URAD	K851/P MG-62	290	90.480	312	K851/P MG-62	55	17.325	315	345	107.805
		MUNG	TAO-01	290	100.340	346	TAO-01	60	20.820	347	350	121.160
		TIL		303	177.255	585		25	14.725	589	328	313.140
		GWAR		158	134.30	850		102	87.210	855	260	221.51
		JWAR	151M	77	50.435	655	151M			661	77	50.435
		KAPAS	BT4	215	238.650	1110	BT4	205	230.625	1125	420	469.275
2	Rabi											
		WHEET	3077				3077	380	1041.20	2740	380	1041.20
		CHANA					DAHED YELLOW	115	93.610	814	115	93.610
		SARNSO	T-59/PU SA-VON				T-59/PUS A-VON	405	425.25	1050	405	425.25
TOTAL				2005				1602				

Productivity kg/ha

Name of the crop	India	Highest Average Yield in Rajasthan	District	Project Area	Deficiency in productivity comparison with District
Wheat	2619	2837	2887	2740	147
Gram	808	622	875	855	20
Mustered	1177	1121	1165	1050	115
Tamato					
Maize	1258	1583	1688	1623	55
Bajra	802	1290	826	-	-
Urad	387	516	501	450	51
Moonge	317	509	277	255	22
Rice	1710	1650	0	0	0
Ground nut	1650	1533	1204	1155	49
Cotton	362	518	477	1110	22
Jwar	552	741	758	655	103

Shown The Bar Chart As Follow



Reasons for law 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**)

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.

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
Amla	3099	155
Cheer Khera	1706	38
Baghpura	394	22
Dhosar	1472	65
Gatheela	455	15
Gatheela Khera	134	0
Sakriya	480	20
Satdhoodiya	341	15
Jhoompura	668	25
Nandsa	2472	125
Kala Dhoondha	669	29
Salyawari	709	35
Shivrati	1815	99
Surat Singh Ka Khera	625	35
Total	15039	678
Source: Baseline Survey (2012)		

Base Line Survey Format for IWMP MIS website

Project Name :- SAHADA IWMP-XIX

Total Geographical Area of Project (Lakh Hectares) :- 0.05477 Lakh Hectares

Treatable Area

Wasteland (Lakh Hectares)	0.02384	Rainfed Agricultural Land (Lakh Hectares)	0.02089
Total Cropped Area (Lakh Hectares)	0.03093	Net Sown Area (Lakh Hactares)	0.02865
Total no. of Water Storage Structure	30	Total no. of Water Extracting Units	396
Total storage capacity of water storage structures (cubic meters)	118742	cum	

No. of Household

SC	464	ST	254
Others	2364		
Total Population of the project Area	15039	No. of Household of Landless people	668
Total no. of BPL Household	684	No.of small Farmer's household	865
No. of person-days of Seasonal Migration	678-270 Day in a Year	No. of Marginal Farmer's Household	1123

Depth of Ground Water (meters) below Ground level

Pre- monsoon	15.70	Post-monsoon	15.00
No. of person-days of Seasonal Migration	678-270 Day in a Year		

CHAPTER – II Socio economic Features, Problems and Scope

Table 2.1 Population & Household Details:

Total Population						
Male	Female		Total	SC	ST	
7485	7554		15039	2423	1355	

Household Details						
BPL Household	L. Less	Small Farmer	M. Farmer	Total Household	SC Household	ST Household
684	668	865	1123	3082	464	254

Table 2.2 Development indicators

S. No.	Development Indicators	State	Project Area
1.	Per capita income (Rs.)	16200	12400
2.	Poverty ratio	0.22	0.221
3.	Literacy (%)	60.40%	45.72%
4.	Sex Ratio	921	1009
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	3093	0	0	0	3093
Temporary fallow	228	0	0	0	228
Permanent Fallow	775	232	1377	0	2384
Cultivated Rainfed	2089	0	0	0	2089
Cultivated irrigated	1004	0	0	0	1004
Net Sown Area	2865	0	0	0	2865
Net Area sown more than once	900	0	0	0	900
Forest Land	0	0	0	0	0
Waste Land	775	0	1377	0	2152
Pastures	0	232	0	0	232
Others	0	0	0	0	0

The project area has 775 ha of cultivable wasteland . 232 ha of fallow land (total 1009 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 18.33% 1004 ha. (18.33 % 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 232 Ha. pasture land (4.25%) 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	MAIZE	MK-30	830	1347.09	1623	MK-30	255	414.375	1625	1085	1761.465
		URAD	K851/P MG-62	290	90.480	312	K851/P MG-62	55	17.325	315	345	107.805
		MUNG	TAO-01	290	100.340	346	TAO-01	60	20.820	347	350	121.160
		TIL		303	177.255	585		25	14.725	589	328	313.140
		GWAR		158	134.30	850		102	87.210	855	260	221.51
		JWAR	151M	77	50.435	655	151M			661	77	50.435
		KAPAS	BT4	215	238.650	1110	BT4	205	230.625	1125	420	469.275
2	Rabi											
		WHEET	3077				3077	380	1041.20	2740	380	1041.20
		CHANA					DAHED YELLOW	115	93.610	814	115	93.610
		SARNSO	T-59/PU SA-VON				T-59/PUS A-VON	405	425.25	1050	405	425.25
TOTAL				2005				1602				

Table 2.4.b Abstract of cropped Area(ha)	
Area under Single crop	2865
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
Maize-	MK-30	1 navjot , Partp sanker	Use Recommended Varieties can increase the Production
Urad -	K851/PMG-62	Karshna /T-9	
Moong	TAO-01	Pusha Beshkhi , RMG 902	
Til		RT46, TC25	
Gawar	Desi / Local	Durgapura Safed , Pusa navbahar	
Coton	BT4	Bt4	
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

Maize	-	Wheat
Maize	-	Fallow
Moong	-	Mustered
Moong	-	Fallow
Fallow	-	Jeera
Gawar	-	Fallow
Til	-	Fallow

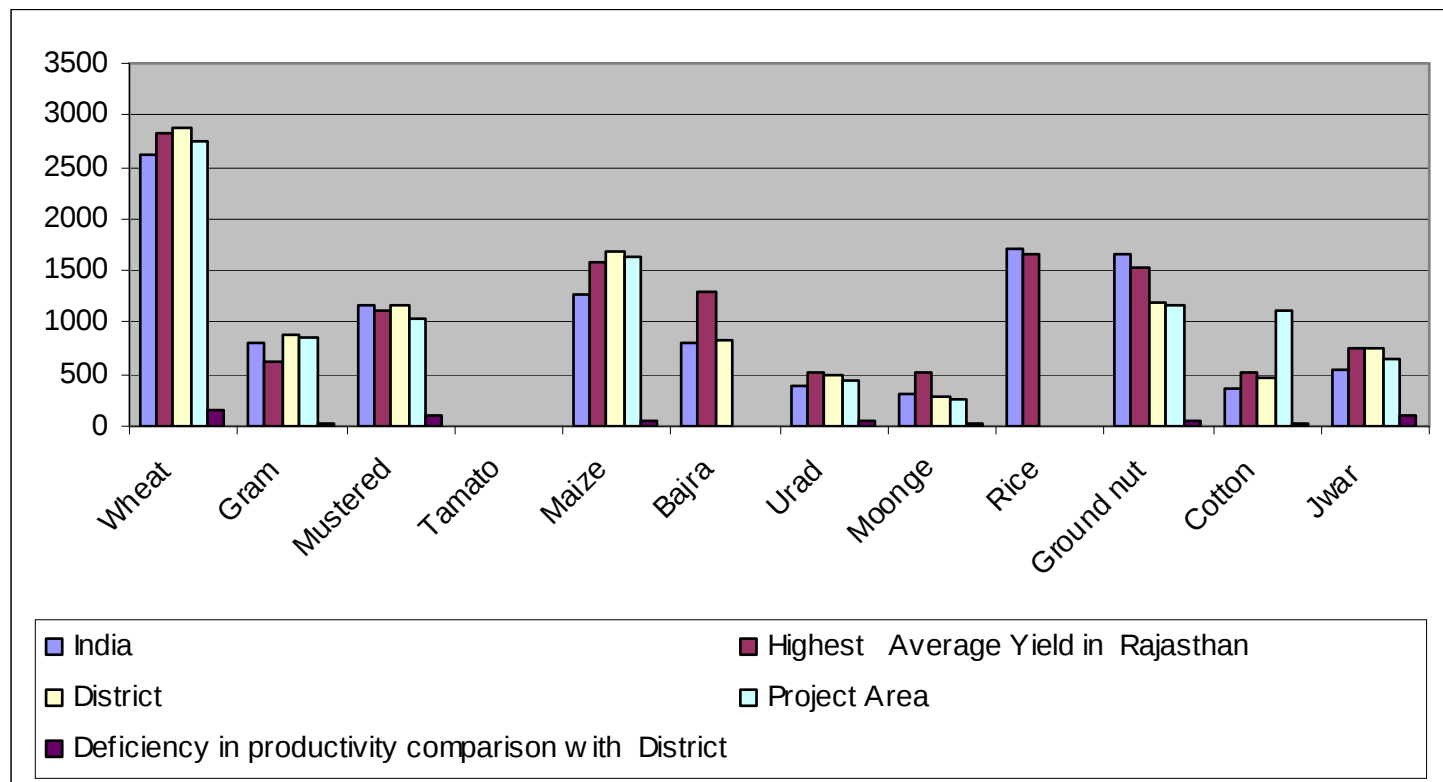
The table shows that only 900 Ha. are (16.43%) is double cropped area. Also the crop rotation shows that fallow lands are there. This indicates that there is scope for change in crop rotation in fields where there are fallow lands through Soil and Water conservation measures, crop demonstration and diversification 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	2619	2837	2887	2740	147
Gram	808	622	875	855	20
Mustered	1177	1121	1165	1050	115
Tamato					
Maize	1258	1583	1688	1623	55
Bajra	802	1290	826	-	-
Urad	387	516	501	450	51
Moonge	317	509	277	255	22
Rice	1710	1650	0	0	0
Ground nut	1650	1533	1204	1155	49
Cotton	362	518	477	1110	22
Jwar	552	741	758	655	103

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		Graphted, Karshna , Kanchan , Kalmi	
Vegetables	10 Ha.	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	426	351	731	271	1353	105	44	35	1169	1353
(ii) Marginal farmer	1123	243	503	188	934	96	143	78	617	934
(iii) Small farmer	865	410	855	316	1581	159	236	122	1064	1581
(iv) Landless person	668	0	0	0	0	0	0	0	0	0
Total	3082	1004	2089	775	3868	360	423	235	2850	3868

65.01% land holdings belong to small and marginal farmers who own 56.47% 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/Tanka 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, Mehendi etc.

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.

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 (7Kg per animal.)	Total requirement in M.T.
1	Cows					
	Indigenous	1178	2945		8246	300.979
	Crossbreed	561	3366		3927	143.335
2	Buffaloes	1115	3345		7805	284.88
3	Goat	998	0	499	3493	127.4945
4	Sheep	530	0	265	1855	67.7075
5	Camel	0	0		0	0
6	Poultry	0	0	NA	0	0
7	Piggery	0	0	NA	0	0
	Total	4382	9656		25326	924.396

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)

S. No	Item	Unit	Area/Quantity
1	Existing Cultivable area under Fodder	Ha	3093
2	Production of Green fodder	quintals/year	61470
3	Production of Dry fodder	quintals/year	60540
4	Area under Pastures	Ha	1009
5	Production of fodder	quintals/year	122010
6	Existing area under Fuel wood	Ha	
7	Supplementary feed	Kgs/ day	25326
8	Silage Pits	No	-
9	Availability of fodder	quintals	122010
10	Deficiency/excess of fodder	quintals	802386

The table above shows there is fodder deficiency (Requirement is 924396 Qt. and availability 122010 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	2395
4	Seed drill	22
5	Any Other (Trally)	15

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	Amlı	618	230	Road , CVH , Nadi ect.
2	Cheer Khera	716	416	Road , CVH , Nadi ect.
3	Dhosar	788	140	Road , CVH , Nadi ect.
4	Nandsa	878	329	Road , CVH , Nadi ect.
5	Shivrati	716	299	Road , CVH , Nadi ect.
6	Ummedpura	860	530	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)
Amlı	155	8To 10 Month	Employment	850 Km	Service At Individual enterprineour lick Ice-cream Trolly , Tatrtor commpressure for coocking of foods etc. in the state of Maharastra , U.P. , Punjab , Gujrat etc.	0.60-0.70 Lack per year
Cheer Khera	38					
Baghpura	22					
Dhosar	65					
Gatheela	15					
Gatheela Khera	0					
Sakriya	20					
Satdhoodiya	15					
Jhoompura	25					
Nandsa	125					
Kala Dhoondha	29					
Salyawari	35					
Shivrati	99					
Surat Singh Ka Khera	35					
Total	678					

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	2414	0.40 – 0.52 Lac
(2.) Dairying	1510	0.55 - 0.50 Lac
(3.) Poultry	0	0
(4.) Piggery	0	0
(5.) Landless Agri. Laborers	668	0.20 - 0.25 Lac

Table 2.12 (b) Major activities (Off Farm)

Name of activity	Households/ individuals	Average annual income from the
Artisans	4	25000-30000
Carpenter	22	35000-40000
Blacksmith	17	50000-60000
Leather Craft	5	40000-45000
Porter	15	
Mason	40	60000-70000
Others specify (Cycle Repair ,STD,Craft etc)	85	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[illegible]

[illegible]

		6- l kfu; k Lo; lgk; rk leg	10		500				
		7- ekr'ojh Lo; lgk; rk leg	10		500				
6.	mEenijk	1-jkeno Lo; lgk; rk leg ¼ikyjk½	10		500				
		2-ckck l kgc Lo; lgk; rk leg	10		200				
		3noujk; .k Lo; lgk; rk leg	10		200				
		4-gkfFk; k eUn Lo; lgk; rk leg	10		200				
		5-cfy; k dk ' ;ke Lo; lgk; rk leg	10		200				

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	255	80-90 feet	42	24	6-8 month
ii)	Shallow tube wells	66	150-220 Feet	17	0	10-12 month
iii)	Dug well with Pumping sets	182	120-200 Feet		525	8-10 month
iv)	Deep Tube Wells	75	250-300 feet	7	455	8-10 month
	Total	578		66	1004	

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
	Total Village	15039x30= 451170/-day	380475/-day	86	67	19	-

Table 2.16 Water Use efficiency

Name of major crop	Area (Hectare)			
	through water saving devices(Drip/Sprinklers)	through water conserving agronomic practices [#]	Any other (pl. specify)	Total
Cotton	Drip Irr.	20	PVC Pipe	30

- 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%	5477 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 Stranges table Rain fall 566.52 mm

Type of Catchment	Area in ha.	Yield of runoff from catchment per ha.(cum.) use Stranges table	Total Runoff in cum
Good	1377	988.23	1360793
Average	1007	741.17	746358
Bad	3093	495.46	1532458
Total	5477		3639609

Runoff trapped in existing structures

S. No.	Name	No.	Storage Capacity (cum)
i)	WHS(earthen)	9	6321
ii)	Khadin/Talab	7	63183
iii)	Farm Ponds		-
iv)	Tanka		-
v)	Anicuts	14	49238
	Total	30	118742

Balanee Run off 3520867 Cum
Runoff to beTrapped in proposed structures:

S. No.	Name	No.	Storage Capacity (cum)
i)	WHS (earthen)	5	7500
ii)	Khadin/Talab		
iii)	Farm Ponds	28	14000
iv)	Masonry Check Dam	17	9960
v)	Medium masonry Structure	6	22861
	Total	56	54321

% Runoff Trapped = Total runoff trapped x 100/ Total Available runoff = 173063/3639609x100 = 4.75%cum.

Height of all the structures proposed is between 0.60 metre to 1.50metre. 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	4800 Ha
2	Degraded	600 Ha
	Soil Depth :	
B	Depth (Cms.)	Area in hectares
1	0.00 to 7.50	555 Ha
2	7.50 to 45.00	875 Ha
3	> 45.00	4075

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 (Tonnes/ ha/ year)
Water Erosion				
a	Sheet	4427	121	15.25
b	Rill	450		
c	Gully	600		
Sub-Total		5477		
Wind erosion		0	0	0
Total for project		5477 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
- **(For Flat Land watershed projects)** To check erosive velocity of runoff, store Runoff, to arrest silt carried by runoff and to recharge Ground Water structures life 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 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.

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	Amlī	24-09-2012
2	Cheer Kheera	28-09-2012
3	Dhosar	20-10-2012
4	Nandsa	21-09-2012
5	Shivrati	27-09-2012
6	Ummedpura	20-09-2012

Rs. In Lac

S. No.	Names of Village/G.P.	Amount earmarked for EPA	Entry Point Activities planned Drinking Water	Estimated cost	Expenditure incurred (upto feb. 2013)	Balance	Expected outcome	Actual outcome
1	Amlī	1.00	1	1.00	0.90	0.10	Drinking Water Facility will be Available for 140 Families including 55 Families of SC ST	Will be furnished After completion of work
2	Cheer Khera	4.70	2	4.70	2.05	2.65	Drinking Water Facility will be Available for 243 Families including 123 Families of SC ST	
3	Dhosar	9.00	3	9.00	0.70	8.30	Drinking Water	

							Facility will be Available for 97 Families including 31 Families of SC ST	
4	Nandsa	5.70	2	5.70	1.75	3.95	Drinking Water Facility will be Available for 252 Families including 89 Families of SC ST	
5	Shivrati	5.89	4	5.89	3.80	2.09	Drinking Water Facility will be Available for 170 Families including 152 Families of SC ST	
Total		26.29	12	26.29	9.20	17.09		

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

S.no	Name of the village/Habitation/ G.P.	Date on which PRA conducted
1	Amlı	27-01-2013
2	Cheer Kheera	12-01-2013
3	Dhosar	09-01-2013
4	Nandsa	15-01-2013
5	Shivrati	14-01-2013
6	Ummedpura	24-01-2013

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 09-2012 to 12-2012 (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.

. 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 managment	
		NIRD	JAIPUR hksolanki@nird.gov.in	Course coordinator or 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.managment Training Institute	JAIPUR	Director-SAMI Jaipur		W/S development works	
3	UGs/SHGs/WCs/GPs/Community	Bhilwara dairy	Bhilwara	M.D. Bhilwara	GOR	W/S development works	
		KVK Bhilwara	Bhilwara	Seior Scientist KVK	Research Institutes	W/S development works	
		Arjia Research station	Bhilwara	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 fulfill the conditions mentioned in the operations guidelines.

IWMP-XIX SAHADA

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 Trainning	UNIT	Total Amount	Year wise Amount vifergation											
							2012-13		2013-14		2014-15		2015-16		2016-17		Total	
							I Year No. of Tranning		II Year No. of Tranning		III Year No. of Tranning		IV Year No. of Tranning		V Year No. of Tranning			
A	Disst. WCDC						Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1	PIAs at State Level (3 Days)	2	10	10160	No	1.016	2	0.2	2	0.203	2	0.203	2	0.2	2	0.2	10	1.016
2	WDTs at State (3 Days)	4	14	20320	No	2.845	1	0.2	5	1.016	3	0.61	3	0.61	2	0.41	14	2.845
3	2 Days Tranning for WDT & PRIS at Distt Level	30	18	25600	No	4.684	1	0.26	10	2.56	3	0.768	2	0.55	2	0.55	18	4.684
			42			8.545	4	0.66	17	3.78	8	1.58	7	1.36	6	1.16	42	8.545
B	PIA. level training																	
1	WDTs(4X4300=17200)	4	10	17200	No	1.720	1	0.17	4	0.688	2	0.344	1	0.17	2	0.34	10	1.72
2	Ugs	30	10	6800	No	0.680	1	0.07	4	0.272	2	0.136	1	0.07	2	0.14	10	0.68
3	SHGs	30	25	6800	No	1.700	2	0.14	15	1.02	3	0.204	2	0.14	3	0.2	25	1.7
4	WCs	30	14	6800	No	0.952	2	0.14	8	0.54	2	0.136	1	0.07	1	0.07	14	0.948
5	GPs	30	10	6800	No	0.680	2	0.14	4	0.272	2	0.136		0	2	0.14	10	0.68
6	Community	30	10	6800	No	0.680	2	0.14	4	0.272	2	0.136		0	2	0.14	10	0.68
7	EXPOSURE TOUR (INTER STATE)	50	5	136160	No	6.808		0.00	3	4.085	2	2.723	0	0		0	5	6.808
8	EXPOSURE TOUR (OUTER STATE)	40	2	210500	No	4.210		0	2	4.210		0		0		0	2	4.21
	Total		86			17.430	10	0.78	44	11.36	31	3.82	19	0.44	24	1.02	86	17.426
C	PM/SLNA (10X5080=50800)	6	1	50800	No	0.33	0	0	1	0.33	0	0	0	0	0	0	1	0.33
11	TOTAL PHYSICAL		129				10		45		31		19		24		87	
12	TOTAL FINANCIAL					26.304		1.45		15.47		5.40		1.81		2.18		26.300

IWMP-XIX SAHADA

Total Budget	Table- Capacity Bulding activities in the project (PHYSICAL) *4% OF TOTAL PROJECT COST.																								
Lacks	S. No.	Project Stack holders	Total No. of Persons	Total No. of Training	Rate per Trai.	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	2015-16	2016-17	Total
								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	
16.10	A	WCDC																							
	1	PIAs at State Level (3 Days)	2	10	10160	3	1.016	4	4	4	4	4	20	2	2	2	2	2	10	12	12	12	12	12	60
	2	WDTs at State (3 Days)	4	14	20320	3	2.845	4	20	12	12	8	56	1	5	3	3	2	14	12	60	36	36	24	168
	3	2 Days Tranning for WDT & PRIS at Distt Level	30	18	15600	2	4.683	30	300	90	60	60	540	1	10	3	2	2	18	60	600	180	120	120	1080
				42			8.544	38	324	106	76	72	616	4	17	8	7	6	42	84	672	228	168	156	1308
	B	PIA																							
	1	WDTs (4X4300 = 17200)	4	10	17200	4	1.720	4	16	8	4	8	40	1	4	2	1	2	10	16	64	32	16	32	160
	2	Ugs	30	10	6800	1	0.680	30	120	60	30	60	300	1	4	2	1	2	10	30	120	60	30	60	300
	3	SHGs	30	25	6800	1	1.700	60	450	90	60	90	750	2	15	3	2	3	25	60	450	90	60	90	750
	4	WCs	30	14	6800	1	0.952	60	240	60	30	30	420	2	8	2	1	1	14	60	240	60	30	30	420
	5	GPs	30	10	6800	1	0.680	60	120	60	0	60	300	2	4	2	0	2	10	60	120	60	0	60	300
	6	Community	30	10	6800	1	0.680	60	120	60	0	60	300	2	4	2	0	2	10	60	120	60	0	60	300
	7	EXPOSURE TOUR (INTER STATE)	50	3	136160	6	4.109	0	50	100	0	0	150		1	2	0		3	0	300	600	0	0	900
	8	EXPOSURE TOUR (OUTER STATE)	40	2	210500	6	4.210	0	80	0	0	0	80		2	0			2	0	480	0	0	0	480
		Total		84			14.731	274	1196	438	124	308	2340	10	42	15	5	12	84	286	1894	962	136	332	3610
8.20	C	PM/SLNA (10X5080 =50800)	6	1	50800	3	0.3290	0	6	0	0	0	6	0	1	0	0	0	1	0	18	0	0	0	18
	11	TOTAL PHYSICAL		127				312	1526	544	200	380	2962	14	60	23	12	18	127	370	2584	1190	304	488	4936

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

1	2	3	4	5					
S. No.	Activity	Executing Agency	Allocation out of 1% of total Project cost	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	tyxg.k {k= xfrfof/k;k dk n'kkrk gvk POP/CLAY / WOOD / PLASTIC l cuk gvk ekMyA	P.I.A.	0.986		0.490	0.496			0.986
2	MhLiy ckM@lyxDIh ckM@								
3	okyifUVx&tyxg.k xfrfof/k;k] y{;k o ikflr vkfn dk n'kkrh gbA	P.I.A.	0.329				0.329		0.329
4	tyxg.k fodkl lc/kh efnr iEiyVI@fyQ yVI@pkV@iLVj@vkfn	P.I.A.	0.329		0.329				0.329
5	Ukkjk y[ku	P.I.A.	1.314	1.214	0.100				1.314
6	IQyrk dh dgkuh;k dh ohfM;kxkQh@ QkVxkQh @ y?kfQYe ,o d"dk l Ik{kjrdkj@okrk A	P.I.A.	1.314				0.230	1.084	1.314
7	IkLdfrd R;kgkj @ ey vkfn d volj ij in'kuh@ uDdM ukVd@ dViryh in'ku	P.I.A.	0.986			0.490	0.496		0.986
8	jkf= xk"Bh @ Hk Ij{k.k Ilrkg@ pruk jyh (in ;k=k) @ tyxg.k fodkl dk ln'k nu oky IkLdfrd dk;Øe@ d"kd fnol dk vk;kttu ,o {k= Hke.k fnol dk vk;kttu bR;kfn@	P.I.A.	1.314		0.740	0.130	0.444		1.314
	dy		6.572	1.214	1.659	1.116	1.499	1.084	6.571

PDCORE LTD. JAIPUR 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 PDCORE LTD. JAIPUR 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-----).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.657.24Lacs.

(ii) Funds available under livelihood component is 9% of total project cost= Rs.59.152Lacs.

(a) Seed money for SHGs as revolving fund = Rs.39.402 Lacs.

(minimum 60% of livelihood component)

-- No. Of SHG to be formed--**173**-Nos.

--- No of persons (members) in SHGs—**1730** Nos.

(b) Seed money for enterprising individuals = **Rs.5.75**Lacs

(minimum 10% of livelihood component)

-- No of persons identified as enterprising individuals **23** Nos.

List of persons & Proposed Activities.

S.No	Watershed Committee	No. of Persons	Activity Proposed
1.	Amli	1	1. Carpenter 2. Mason 3. Sewing / Knitting
2.	Cheer Kheera	4	
3.	Dhosar	5	
4.	Nandsa	5	
5.	Shivrati	8	
6.	Ummedpura	0	

(c) Funds for Enterprising SHG/Federations of SHG

(Maximum 30 % of livelihood activities)= Rs.----14.00--Lacs

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 lacs	Grant in aid 50% of project cost or 2 lacs whichever is less	Bank Loan
1	8	Dairy	34.00	14.00	20.00
2					
	Total		34.00	14.00	20.00

* 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 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 is as under :

(iii) Total project cost Rs.—657.24--Lacs.

(iv) Funds available under Production System & Micro enterprises component is 10% of total project cost= Rs.-65.724--Lacs.

No. of persons & Proposed Activities for production system

S.No	No./Area in Hac. of Benificieries Person	Activities Proposed
1		Crop Demostration 1. Kharif 2. Rabi
	417 No./167 Ha.	
	197 No./79 Ha.	
2		Agroforestry 1. CVH with Aluvira 2. CVH with Aluvira & Karonda
	360 No/230 Ha	
	42 No/36 Ha	
3	131 Ha/ 300 No.	Horticulture
4	100 No.	Nedap Compost
5	211 No./23 ha	Vegitable Kit
6	2642 No.	A.I.
7	200 No.	Manger Construction

(viii) Funds for Animal Husbandary activities 5.563 lacs.

Details of is Animal Husbandary activities given below :

S.No.	Name of Activity	Quantity	Unit cost	Cost of Activity in lacs		Remark Convergence with
				From Project Fund	From Convergence Fund	
1	A.I. No.	5285	0.0015	3.963	3.965	A.H.Deptt
2	A.H. CAMP 10	12	0.24	0	2.88	A.H.Deptt
3	Manger Construction	200	0.008	1.6	0	
	Total			5.563	6.845	

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 schemes.

Proposed Development Plan

[illegible]

[illegible]

Livelihood System 9 %												
Revolving Fund to SHG (60 % minimum)	No.		3	0.75	0.75	0		27	6.75	6.75	0	
Revolving Fund to enterprising individual (10 % maximum)	No.		1	0.25	0.25	0		4	1	1	0	
Grant in aid to enterprising SHG or Federation of SHGs individual (30 % maximum)	No.		0	0	0	0		2	3.5	3.5	0	
exhiky	No.					1.500					6.000	
eNyh iky	No.					0.000					0.000	
mPp f'k{k	No.					0.200					0.900	
rduldh if'k{k.k	No.					0.200					1.500	
i'k chek ;ktuk	No.					0.128					1.364	
Total Livelihood				1	1	2.028			11.25	11.25	9.764	
Total (C)				8.476	2.16283	10.936	0	33	57.546	23.80411	69.238	0
(D) Consolidation 3%												
Grand Total				21.087	9.14783	16.562	0.51808					

Proposed Development Plan

[illegible]

[illegible]

[illegible]

Proposed Development Plan

[illegible]

[illegible]

[illegible]

Proposed Development Plan

(A)							
Activity	Unit	Unit Cost	Total				
			Quantity	Total Cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution
Admn. 10%				65.724	65.724		
Monitoring 1.0%				6.572	6.572		
Evaluation 1%				6.572	6.572		
EPA 4%				26.29	26.29		0
I & CB 5%				32.862	32.862		
DPR 1%				6.572	6.572		
Total (A)				144.592	144.592		
(B)							
Conservation measures for arable land (private land)							
Earthen Bund/ CVH	Ha		2089	201.73	119.083	82.647	9.527
Khet talai / Farm pond	No.		42	39.424	22.806	16.618	2.281
Weste weir	No.		209	29.469	29.469	0	2.358
Conservation measures for non arable land							
Pasture Development	Ha		125	96.885	96.885	0	
Water Harvesting Structure/ Nadi	No.		5	11.75	11.75	0	
Pasture Development (Private Farmer)	Ha		411	28.128	28.128	0	1.653
Open Contour trench	Ha		497	54.905	36.682	18.223	
Road side Plantation	km		4	5.952	0	5.952	
Drainage line treatment						0	
Masonry Check Dam			17	6.87	6.87	0	
MMS			6	16.381	16.381	0	
Total (B)				491.494	368.054	123.44	15.817

(C)	Production System (10%)						
Production measures for arable land							
A.I.	No.		2642	7.928	3.963	3.965	0.793
AH CAMP			12	2.880	0	2.880	0.000
Manger Construction	No.		200	1.600	1.600	0	0.320
[kjhQ in'ku	No.		417	8.075	8.075	0	1.615
jch in'ku	No.		197	4.680	4.680	0	0.936
Qynkj ik/kkji.k	Ha		131	114.237	31.415	82.822	6.283
uMi dEikLV	No.		100	4.960	2.000	2.960	0.400
df ^m k Hkfe (cvh Pro.) Other alu	Ha		230	41.303	4.520	36.783	0.904
df ^m k Hkfe (cvh Pro.) Other alu+kar	Ha		36	66.153	7.574	58.579	1.515
kitchen garden KIT	No.		211	4.500	1.899	2.601	0.380
tfod ckM	No.			36.424	0	36.424	
Qyk dh [krh	No.			6.960	0	6.960	
elkyk [krh	No.			2.796	0	2.796	
vk ^m /kh;k ik/kk dh [krh	No.			1.350	0	1.350	
uljh LFkkiuk (25000 Forest Plant/- Family)	No.			11.250	0	11.250	
ftlle l Hkfe l/kkj	No.			1.330	0	1.330	
flpkb gr ikbi ykbu	No.			13.050	0	13.050	
fLiDyj fllVe	No.			17.100	0	17.100	
fMi flpkb ;ktuk	No.			10.080	0	10.080	
df ^m k ;= ¼Li;j½	No.			0.500	0	0.500	
ik/k l j{k.k ;=	No.			0.080	0	0.080	
uhe mRiknu	No.			0.180	0	0.180	
xhu gkm l LFkkiuk	No.			27.000	0	27.000	
ckl mRiknu	No.			1.920	0	1.920	
Total Production System				386.336	65.726	320.610	13.145

Livelihood System 9 %							
Revolving Fund to SHG (60 % minimum)	No.		158	39.402	39.402	0	
Revolving Fund to enterprising individual (10 % maximum)	No.		23	5.75	5.75	0	
Grant in aid to enterprising SHG or Federation of SHGs individual (30 % maximum)	No.		8	14.00	14.00	0.00	
exhiyu	No.		23	34.500	0.000	34.50	
eNyh ikyu	No.		2	10.000	0.000	10.00	
mPp f'k{k	No.		45	4.500	0.000	4.50	
rduhdh if'k{k.k	No.		83	8.300	0.000	8.30	
i'k chek ;k t uk	No.		1786	7.144	0.000	7.14	
Total Livelihood			0	123.596	59.152	64.444	0
Total (C)				509.9317	124.8777	385.054	13.145
(D) Consolidation 3%				19.719	19.719		
Grand Total				1165.74	657.24	508.49	28.96

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

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	Name of Convergence Scheme
tyxg.k fodk l dk; pj.k (56%)										
dfm.k Hkfe dk; %vflfpr%										
CVH (NRM) Ha.SC/ST/B PL	Ha	671		82.65		671	0.12	82.65	0	MNREGS
CVH (NRM) Ha. Other	Ha	1418	0.084	119.08	119.08				9.527	
Weste Weir No	No	209	0.141	29.47	29.47				2.358	
Farm Pond No.	No	42	0.815	39.42	22.81	14	1.19	16.62	2.281	MNREGS
%vdfm.k Hkfe%										
pjlxkg fodk l	Ha	125	0.775	96.89	96.89					
NADI IN P.D BLOCK	No	5	2.35	11.75	11.75					
pjlxkgfodk l (PrivateFarmer	Ha	411	0.068	28.13	28.13				1.653	
Open Contour Trench Ha	Ha	497	0.104	54.91	36.68	145	0.13	18.22		MNREGS
Road side plantation work	Km	4		5.95	0.00			5.95		MNREGS
ukyk mipkj dk;										
Masanery Check Dam	No	17		6.87	6.87					
M.M.S.	No	6	1.188	16.38	16.38	4	1.49			
mi;kx				491.49	368.05			123.44	15.819	
Livelihood System (9 %)										
Revolving Fund to SHG (60 % minimum)	No	157	0.25	39.40	39.40					
Revolving Fund to enterprising individual (10 % maximum)	No	23	0.25	5.75	5.75					
Grant in aid to enterprising SHG or Federation of SHGs individual (30 % maximum	No	8	1.75	14.00	14.00					
exhiky	No	23		34.50		23	1.50	34.50		ANIMAL HUSBANDRY
eNyh ikyu	No	2		10.00		2	5.00	10.00		ANIMAL HUSBANDRY
mPp f'k{kk	No	45		4.50		45	0.10	4.50		SOCIAL WALFAIR
rduhdh if'k{k.k	No	83		8.30		83	0.10	8.30		Rudset/ILFS
i'k chek ;ktuk	No	1786		7.14		1786	0.00	7.14		ANIMAL HUSBANDRY
mi;kx				123.60	59.15			64.44	0.00	

Production System (10%)										
A.I.	No	5285	0.002	7.928	3.963	2642	0.00 ₂	3.96	0.793	ANIMAL HUSBANDRY
A.H. CAMP	No	12		2.88		12	0.24	2.88		ANIMAL HUSBANDRY
Manger Construction	No	200	0.008	1.600	1.6	200	0.01	0.00	0.32	
[k]hQ	No	417		8.08	8.075				1.615	
jch	No	197		4.68	4.680				0.936	
Qynkj ik/kkjki.k	Ha	271	0.24	114.24	31.41	140	0.59	82.82	6.283	MNREGS
uMi dEikLV	No	248	0.02	4.96	2.00	100	0.02	2.96	0.4	AGRICULTURE
df ^k Hkfe (cvh Pro.) Other Alu	Ha	1810	0.02	41.30	4.52	1580	0.02	36.78	0.904	MNREGS
df ^k Hkfe (cvh Pro)Other Alu+Kar	Ha	279	0.211	66.15	7.57	243	0.24	58.58	1.515	MNREGS
Inovative Works										
Kitchen garden KIT	No	500	0.009	4.50	1.899	289	0.00 ₉	2.601	0.38	AGRICULTURE
tfod ckM	Ha	232		36.42		232	0.16	36.42		OTHERS
Qyk dh [krh	Ha	29		6.96		29	0.24	6.96		HORTICULTURE
eIkyk [krh	Ha	12		2.80		12	0.23	2.80		HORTICULTURE
vk ^k /kh;k ik/kk dh [krh	Ha	9		1.35		9	0.15	1.35		HORTICULTURE
uljh LFkkiuk (25000 Forest Plant/- Family)	No	15		11.25		15	0.75	11.25		MNREGS
ftile l Hkfe l/kkj	Ha	190		1.33		190	0.01	1.33		AGRICULTURE
flpkb gr ikbi ykbu	No	87		13.05		87	0.15	13.05		AGRICULTURE
flidyj fllVe	Ha	38		17.10		38	0.45	17.10		AGRICULTURE
fmi flpkb ;ktuk	Ha	24		10.08		24	0.42	10.08		AGRICULTURE
df ^k ;= %Li;j½	No	10		0.50		10	0.05	0.50		AGRICULTURE
ik/k ljk.k ;=	No	8		0.08		8	0.01	0.08		AGRICULTURE
uhe mRiknu	No	36		0.18		36	0.01	0.18		MNREGS
xhu gkm l LFkkiuk	Ha	18		27.00		18	1.50	27.00		HORTICULTURE
ck l mRiknu	Ha	24		1.92		24	0.08	1.92		HORTICULTURE
Total				386.34	65.72			320.607	13.146	
GRAND TOTAL				1001.43	492.93			508.49	28.97	

***Tentative and will vary during execution according to beneficiary**

Signatures
PIA P.S. Sahada

Signatures
Project Manager, WCDC
Distt. - BHILWARA

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.

Annual Action Plan Through Project Fund

(A)	Preparatory phase activities capacity building trainings & EPA																	
Activity	Unit	Quantity	Unit Cost	Total cost	2011-12		2012-13		2013-14		2014-15		2015-16		2016-17		Total	
					Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Admn.				65.724				3.94		19.06		16.43		13.14		13.14	0	65.724
Monitoring				6.572						2.958		1.643		0.657		1.314	0	6.572
Evaluation				6.572						0.657		2.629		0		3.286	0	6.5722
EPA				26.29				26.2									0	26.29
I & CB				32.862				2.62		17.088		6.572		3.286		3.286	0	32.861
DPR				6.572				6.57									0	6.572
Total (A) 22%				144.59				39.4		39.76		27.27		17.08		21.03		144.59
(B)	Natural resource management(56%)																	
Conservation measures for arable land(private land)																		
Earthen Bund/ CVH	Ha	1418	8398	119.08					505	42.41	634	53.243	279	23.43			1418	119.08
Khet talai / Farm pond	No	28	81451	22.806					10	8.145	13	10.589	5	4.073			28	22.807
Weste weir		209	14100	29.469					75	10.575	93	13.113	41	5.781			209	29.469
Conservation measures for non arable land																		
Pasture Development	Ha	125	77508	96.885					45	34.879	56	43.404	24	18.602			125	96.885
Water Harvesting Structure/ Nadi	No	5	235000	11.75					2	4.7	2	4.7	1	2.35			5	11.75
Pasture Development (Private Farmer)	Ha	411	6844	28.129					145	9.924	183	12.525	83	5.681			411	28.13
Open Contour trench	Ha	352	10421	36.682					120	12.505	158	16.465	74	7.712			352	36.682
Road side Plantation	Km	0	118800														0	0
Drainage line treatment																	0	0
Masonry Check Dam	No	17		6.87					6	2.45	6	3	5	1.42			17	6.87
MMS	No	6		16.381					2	5.85	3	7.31	1	3.221			6	16.381
Total (B)				368.056						131.438		164.349		72.270				368.057
(C)	Production System (10%)																	
Production measures activities																		
A.I.		2642	150	3.963					300	0.45	704	1.056	1084	1.626	554	0.831	2642	3.963
Manger		200	800	1.6					60	0.48	70	0.56	70	0.56			200	1.600
[kjhQ	No			8.075						1.6		2.41		2.61		1.455	0	8.075

jch				4.680						1.1		1.41		1.37		0.8	0	4.680
Qynkj ik/kjki.k	Ha	131	24000	31.413					26.8	6.432	47	11.22	44.3	10.64	13	3.12	131	31.41
uMi dEikLV	No	100	2000	2.000					26	0.52	40	0.8	34	0.68	0	0	100	2.000
df ^u Hkfe (cvh Pro.) Other alu	Ha	230	1965	4.520					46	0.9039	81	1.59	80	1.572	23	0.451	230	4.520
df ^u Hkfe (cvh Pro.) Other alu+kar	Ha	36	21038	7.574					7	1.4727	13	2.73	13	2.73	3	0.631	36	7.574
kitchen garden KIT	No	211	900	1.899					50	0.45	100	0.9	50	0.45	11	0.099	211	1.899
Livelihood System 9%																		
Revolving Fund to SHG (60 % minimum)	No	157	25000	39.402					17	4.250	52	13.000	52	13.000	37	9.152	158	39.402
Revolving Fund to enterprising individual (10 % maximum)	No	23	25000	5.750					2	0.500	8	2.000	8	2.000	5	1.250	23	5.750
Grant in aid to enterprising SHG or Federation of SHGs individual (30 % maximum)	No	8	175000	14.000					1	1.750	2	3.500	3	5.250	2	3.500	8	14.000
Total (C)				119.31						18.97		39.56		40.30		20.459	0	119.31
(D) Consolidation				19.717												19.717		19.71
Grand Total				651.68						190.18		231.19		129.66		61.207		651.68

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		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)																		
Earthen Bund/ CVH	Ha	671	0.1232	82.647					168	20.6926	168	20.6926	168	20.6926	167	20.5694	671	82.647
Khet talai / Farm pond	No	14	1.187	16.618					4	4.748	4	4.748	4	4.748	2	2.374	14	16.618
Conservation measures for non arable land																		
Open Contour trench	Ha	145	0.126	18.224					36	4.52448	37	4.65016	36	4.52448	36	4.52448	145	18.224
Road side Plantation	Km	4	1.488	5.951					1	1.48782	1	1.48782	1	1.48782	1	1.48782	4	5.951
Total (B)				123.440					31.453		31.579		31.453		28.956		123.440	
(C)	Production System (10%)																	
Production measures activities																		
A.I.	No.	2643	0.0015	3.965					1000	1.500	750	1.125	500	0.750	393	0.590	2643	3.965
A.H. camp	No	12	0.24	2.880					3	0.720	3	0.720	3	0.720	3	0.720	12	2.880
Horticulture plantation	Ha	140	0.59158	82.821					35	20.705	35	20.705	35	20.705	35	20.705	140	82.821
Alovira on farmbundung	Ha	1580	0.02328	36.782					395	9.196	395	9.196	395	9.196	395	9.196	1580	36.782
Alovira + Karonda on farmbundung	Ha	243	0.24107	58.580					61	14.705	61	14.705	61	14.705	60	14.464	243	58.580
tfod ckM	Ha	232	0.157	36.424					58	9.106	58	9.106	58	9.106	58	9.106	232	36.424
uMi dEikLV	No	148	0.02	2.960					37	0.740	37	0.740	37	0.740	37	0.740	148	2.960
fdpu xkMu fdV	No	289	0.009	2.601					72	0.648	72	0.648	72	0.648	73	0.657	289	2.601
Qyk dh [krh	Ha	29	0.24	6.960					8	1.920	8	1.920	7	1.680	6	1.440	29	6.960
e lkyk [krh	Ha	12	0.233	2.796					3	0.699	3	0.699	3	0.699	3	0.699	12	2.796
vk%k/kh;k ik/kk dh [krh	Ha	9	0.15	1.350					2	0.300	3	0.450	3	0.450	1	0.150	9	1.350
uljh LFkkiuk (25000 Forest Plant/- Family)	No	15	0.75	11.250					4	3.000	4	3.000	4	3.000	3	2.250	15	11.250
ftlle l Hkfe l/kkj	Ha	190	0.007	1.330					48	0.336	48	0.336	47	0.329	47	0.329	190	1.330
flpkb gr ikbi ykbu	No	87	0.15	13.05					22	3.300	22	3.300	22	3.300	21	3.150	87	13.050
fLiDyj fllVe	Ha	38	0.45	17.10					10	4.500	10	4.500	10	4.500	8	3.600	38	17.100
fMi flpkb ;ktuk	Ha	24	0.42	10.08					6	2.520	6	2.520	6	2.520	6	2.520	24	10.080
df%k ;= %Li;j%	No	10	0.05	0.50					3	0.150	3	0.150	2	0.100	2	0.100	10	0.500
ik/k l j{k.k ;=	No	8	0.01	0.08					2	0.020	2	0.020	2	0.020	2	0.020	8	0.080
uhe mRiknu	No	36	0.005	0.18					9	0.045	9	0.045	9	0.045	9	0.045	36	0.180
xhu gkm l LFkkiuk	Ha	18	1.5	27.00					5	7.500	5	7.500	5	7.500	3	4.500	18	27.000
ck l mRiknu	Ha	24	0.08	1.92					6	0.480	6	0.480	6	0.480	6	0.480	24	1.920
TOTAL Production				320.61														320.61
Livelihood System 9%																		
exhiky	No	23	1.5	34.500					6	9.000	6	9.000	6	9.000	5	7.500	23	34.500
eNyh iky	No	2	5	10.000					1	5.000	1	5.000	0	0.000	0	0.000	2	10.000

mPp f'k{k	No	45	0.1	4.500					11	1.100	11	1.100	12	1.200	11	1.100	45	4.500
rduhdh if'k{k.k	No	83	0.1	8.300					21	2.100	21	2.100	21	2.100	20	2.000	83	8.300
i'k chek ;k tuk	No	1786	0.004	7.144					447	1.788	447	1.788	447	1.788	445	1.780	1786	7.144
Total (C)				64.444						18.988		18.988		14.088		12.380	0	64.444
(D) Consolidation				0														0.000
Grand Total				508.49						50.44		50.57		45.54		41.34		508.49
% Targets																		

Signatures
 PIA P.S. Sahada
 WCDC

Signatures
 Project Manager,
 Distt. - BHILWARA

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	12.50	11.50	
2	Ground water structures repaired/ rejuvenated	No.	-	-	
3	Quality of drinking water	Description	N.A	N.A	
4	Availability of drinking water	Description	380475lit/ day	601000Lit/Day	
5	Change in irrigated Area	Ha	900	1070	
6	Change in cropping/ land use pattern	Description			
7	Area under agricultural crop	Ha	3089	3259	
	I Area under single crop	Ha	2865	2980	
	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 Maize	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 Maize	ton	1701.46	2170.00	
	Production of Wheat	ton	1041.20	1311.00	
	Production of Gram	ton	93.61	117.30	
	Production of Mustard	ton	425.25	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	3708	3750	
15	Fodder production	Q	98820	692520	
16	Milk production	Litres/day	9656	25000	
17	SHGs Active	No.	34	173	
18	No. of enterprising individuals	No.	31	54	
19	Income	Rs.in la	0.124	0.20	
20	Migration	No.	678	472	
21	SHG Federations formed	No.		15	

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)

CHAPTER - VIII Enclosures -

- a. Location –District, block, village, Watershed Location Map
- b. Map of **SAHADA (IWMP – XIX)** 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 sabha for EPA approval

Proceedings of gram sabha Resolution for committee constitution

Proceedings of gram sabha 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. SAHADA

Project Manager, WCDC

WD & SC. Distt.- BHILWARA

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)
DETAILED ESTIMATE OF ONE DAYS TRAINING

S.No	Activity	No of Trainees	Rates	Total Am (Rs)	Reference.	Remark
1	Daily Allowance for lodging / boarding for non-residential training within the district/state.	30	75/- per trainees/day	2250	Cir.No; 729-814. Dt 09.05.11 Dir. WDSC, Jaipur Item No 1	
2	Honorium of Resource person	30	250/- per lecture (2 Hr /lecture/day)	1000	Cir.No; 729-814. Dt 9.05.11 Dir. WDSC, Jaipur Item No 5	
3	POL (two days jeep Hire Charges)	30	500/- per day	1000	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 7	
4	Literature & stationary	30	50/- per trainees	1500	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 11	
5	Seating arrangement (tent,matting,chairs,etc)	30	750/-	750	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 10	
6	Miscellaneous charges	30	0	300	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 12	
7						
	TOTAL Am			6800		

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)
DETAILED ESTIMATE OF THREE DAYS STATE LEVEL TRAINING FOR PM/SLNA

S.No	Activity	No of Trainees	Rates	Total Am (Rs)	Reference.	Remark
1	Loding charges (Per day/per head)	30	3000	90000	F7(1)	3x1000
2	Food charges (Break fast Lanch Dinner etc. (per Day /per head)	30	750	22500		3x250
3	Group Photo @ Rs. 50/- each	30	50	1500		
4	Treaing holl charges at atate level @ Rs. 4000/- per dya	3 day	4000	12000		
5	Indicative cost Course material training Kit (including pen pad and bag) cost of brochure training material charges State level per head 3 day	30	390	11700		
6	Miscellaneous (per head per day Postage fax telephones banner etc.	30	150	4500		3x50
7	Honorium of Resource person @ Rs. 700/- per sessions per day	3 Day	1400	4200		2x700
8	Honorium per sessions @ Rs. 2500/- for Eminent Guest Speakers At state level (2 sissions per programme	1 day	5000	5000		2x2500
9	TA for guest speakers Maximum up to 100km	1	1000	1000		
Total				152400		

PM + SLNA (2+8)

(152400X10)/30

50800

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)
DETAILED ESTIMATE OF FOUR DAYS DISTRICT LEVEL TRAINING

S.No	Activity	No of Trainees	Rates	Total Am (Rs)	Reference.	Remark
1	Loding charges (Per day/per head)	30	2400	72000		3X800
2	Food charges (Break fast Lanch Dinner etc. (per Day /per head)	30	600	18000		3X200
3	Group Photo @ Rs. 50/- each	30	50	1500		
4	Treaing holl charges at District level @ Rs. 3000/- per dya	3 day	3000	9000		
5	Indicative cost Course material training Kit (including pen pad and bag) cost of brochure training material charges District level per head 4 day	30	390	11700		
6	Miscellaneous (per head per day Postage fax telephones banner etc.	30	150	4500		3X50
7	Honorium of Resource person @ Rs. 700/- per sessions per day	3 Day	1400	4200		2x700
8	Honorium per sessions @ Rs. 2500/- for Eminent Guest Speakers At state level (2 sissions per programme	1 day	5000	5000		2x2500
9	TA for guest speakers Maximum up to 100km	1	800	800		
Total				126700		

Expenditure for Tranning per Person 126700/30 4223
Say Rs./- 4300

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)
DETAILED ESTIMATE OF FIVE DAYS BLOCK LEVEL TRAINING

S.No	Activity	No of Trainees	Rates	Total Am (Rs)	Reference.	Remark
1	Loding charges (Per day/per head)	30	150	4500		5X30
2	Food charges (Break fast Lanch Dinner etc. (per Day /per head)	30	750	22500		5X150
3	Group Photo @ Rs. 50/- each	30	50	1500		
4	Treaing holl charges at Block level @ Rs. 2100/- per dya	5 day	2100	10500		
5	Indicative cost Course material training Kit (including pen pad and bag) cost of brochure training material charges Block level per head5 day	30	390	11700		
6	Miscellaneous (per head per day Postage fax telephones banner etc.	30	250	7500		5x50
7	Honorium of Resource person @ Rs. 700/- per sessions per day	5 Day	1000	5000		2x500
Total				63200		

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)
DETAILED ESTIMATE OF TWO DAYS TRAINING

S.No	Activity	No of Trainees	Rates	Total Am (Rs)	Reference.	Remark
1	Daily Allowance for lodging / boarding for residential training within the district.	30	125/- per trainees/day	7500	Cir.No; 729-814. Dt 9.05.11 Dir. WDSC, Jaipur Item No 2	
2	Honorium of Resource person	30	250/- per lecture (2 Hr /lecture/day)	2000	Cir.No; 729-814. Dt 9.05.11 Dir. WDSC, Jaipur Item No 5	
3	POL (three days jeep Hire Charges)	30	500/- per day	1500	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 7	
4	One Day Bus Hire Charge for side visit within 300 km	30	32/-per km	9600		
5	Literature & stationary	30	100/- per trainees	3000	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 11	
6	Seating arrangement (tent,matting,chairs,etc)	30	1500/-	1500	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 10	
7	Miscellaneous charges	30	0	500	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 12	
8						
			TOTAL AM	25600		

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

PRAPOSED ESTIMATE FOR EDUCATIONAL TOUR UNDER WATERSHED DEVLOPMENT PROGRAME (WITH IN DISTT.)

PARTICIPANTS-50
DURATION-Five NIGHT & SIX DAYS
TOTAL DISTANCE - 1800KM

S.No	HEAD	UNIT CHARGES	No. OF Participants	Amount Rs	Remarks
1	Travelling Allowances & Local 300Km/day 6 day	32	50	57600	
2	Daily Allowances for loading & boarding of trainees	200x6	50	60000	
3	Stationery & training material (per trainees)	150	50	7500	
4	D.A. of Resource person with the tour	250	12	3000	
5	POL (seven days jeep Hire Charges)	500	7 Days	3500	
6	Other Expenses	1360	L.S.	1360	
7	Tent&Class room	3200		3200	
			TOTAL Am	136160	

DESIGN OF SEMI PUCCA BUND

Block - A

$$\text{Slope} = \frac{\text{Elevation difference}}{\text{Horizontal length}} \times 100$$

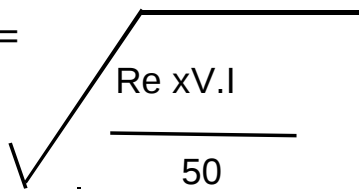
$$S = \frac{1}{100} \times 100$$

$$S = 1\%$$

$$V.I = \left| \frac{S}{3} + \frac{2}{2} \right| \times 0.3$$

$$V.I = 0.70 \text{ m} \quad H.I = 55 \text{ m}$$

Height of bund =



Re = 10 cm

V. I = 0.70 m

$$H = 0.32 \text{ m} \quad \text{SAY } 0.35 \text{ m.}$$

$$\text{Free board} = 0.15 \text{ m}$$

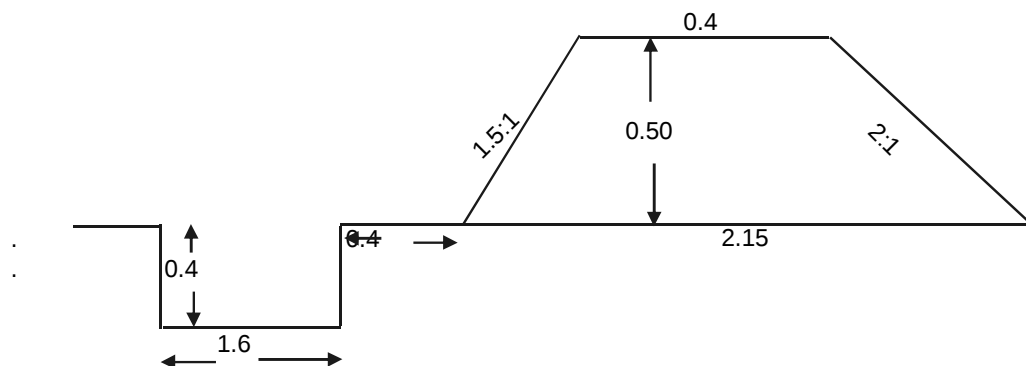
$$\text{Total height} = 0.50 \text{ m}$$

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4

P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

MODEL ESTIMATE OF ARABLE LAND (SEMI PUCCA BUND)

MODEL ESTIMATE OF ARABLE LAND (SEMI PUCCA BUND)							
A	Cross section of bund-	0.64	Sqm		Top Width		0.4
B	Length -	100	Rmt		Bottom Width		2.15
					Height		0.5
S. No.	Item	Quantity	Unit	Labour Rate	Total Rate	Labour Amount	Total Amount
1	Dug belling work up to 5-7 cm depth 4x100=400m	400	Rm	1.00	1.00	400.00	400.00
2	Earth work in hard soil for construction of bund including ramming compaction and dressing up to the lead of 50m and lift 1.5 m 0.64x100=64 cum	64	Cum	85.00	85.00	5440.00	5440.00
3	Sowing of grass seed pallets on bunds inThree rows.	300	Rm	0.59	0.59	177.00	177.00
4	Dhaman	1	Kg	0.00	82.00	0.00	82.00
	Total					6017.00	6099.00
Increase Due to Labour Rate 135/- to 166/-							
	7398.68	Rs.82	Rs.7,481				
						Rs.7,399	Rs.7,481
					Total	Rs.7,399	7480.68
	Add.3% Contengency						224.42
	Grand Total						7705
		Per Rmt	77.05				
Avarage length per Rm/Ha = 109 Rm		Per Ha Cost		8398.45			
Say Amount			8398				



C. STRUCTURAL DESIGN

(i)	Top width of Head wall $h/(p-1)^{0.5}$ (as per site condition where $h =$	0.26	0.26 say = 0.30 m $p = 2.1$	0.40 M 0.30 M
	p Specific gravity of stone masnory in cm = 2.3			
(ii)	Bottom width of head wall $b = h+H/(p-1)^{0.5}$ H =height of head wall in meters =	0.57	Say : 0.35 m	0.75 M 0.35 M
(iii)	Length of head wall extension $H + d + 1$ $d = h + \text{free board} =$ but as per side condition L/S M	1.50 0.15 1.5	R/S M 1.5	1.50 M 0.15 M 3.00 M
(iv)	Height of Head wall extension $H + d =$			0.50 M
(v)	Bottom width of HW ext. side wall & wing wall $0.5(H+h) =$	0.33		0.45 M
(vi)	Top width of HW ext $0.4H =$	0.14		0.40 M
(vii)	Length of Basin $L.B = 0.75(H+d)+H$	0.73		0.75 M
(viii)	Thickness of Basin = 0.60m(including concreting)			
(ix)	Height of side wall $H+d =$	0.50		0.50 M
(x)	Height of side wall = 1.5h at W W joints $1.5h =$	0.45		0.25 M
(xi)	Length of side wall = B. W. of H. W - B.W of H W E + L.B + width of toe wall	1.50		
(xii)	Length of wing wall = $2.25 h =$	0.68		0.00 M
(xiii)	Height of the wing wall =	0.45		0.00 M
(xiv)	Top width of Head wall ext site wall wing wall =			
(xv)	Width of toe wall =			0.3 M
(xvi)	Height of toe wall =			0.15 M
(xvii)	Height of wing wall at wing end =			0.00 M
(xviii)	Bottom width of the side wall & wing wall taking as per Bottom width of the head wall ext as in item no.5 = m			0.45 M
(xix)	Depth of foundation taking as			0.60 M

STABILITY CHECK'S

a	Top width of anicut	=	0.40 m
b	Bottm width of anicut	=	0.75 m
$w_1 + w_2$	self weight of anicut		
p_1	Pressure due to water besswall		
p_2	Horizontal water pressure		
p_3	Up lift pressure		
h	Food heigth	=	0.30 m
H	heigth of anicut	=	0.35 m
L	considering one metre	=	1
S			2.3
C			0.6

Forces acting on a over flow gravity dam
 Forces and momrnt calculation's
 considering one metre length of anicut and taking
 Restoring moment as positive (+ ve) and overturning moment
 as negative (-ve)
 moment taken at B

s. no.	Forces	v- vertical forces	H- horizontal forces	Force acting at a distance from B	moment at B 2×5	
					+ ve	-ve
1	$w_1 = a \times H \times L \times S$					
		0.32	0.32	2.20	0.71	
2	$w_2 = 1/2 \times (b-a) \times H \times L \times S$					
		0.14	0.14	1.13	0.16	
3	$p_1 = w_h \times H$					
		0.11		0.11	0.90	0.09
4	$p_2 = wH^2/2 \times H$					
		0.06		0.06	0.60	0.04
5	$p_3 = c \times w_b \times (H+h)/2$					
		0.09	0.09	1.80		0.17
	TOTAL	0.37	0.17		0.87	0.30

$$Em = mr - mo$$

$$0.57$$

CHECKS IN OVERTURNING

Factor of satety agaist overturning

$$Emr/Emo = +m/-m = \text{Restoning moment/overturning moment}$$

$$2.88$$

it is more than 1.50 hance structure is safe against overturning

SLINDING

Factor of safety against slinding

$$Ev/Eh = 2.22$$

it is more than 1.0 hance structure is safe against slinding

RUPTURE (safety against tension at the bese)

X Relne Position of resultant measured from toe

$$x = Em/Ev = 1.54$$

$$e = b/2 - X = -1.16$$

$$Ev/b (1+6e/b) = -8.81$$

$$Ev/b (1-6e/b) = 9.79$$

$$P \text{ max} = -8.81$$

$$P \text{ min} = 9.79$$

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)
Modal estimate of wastewear in arale land

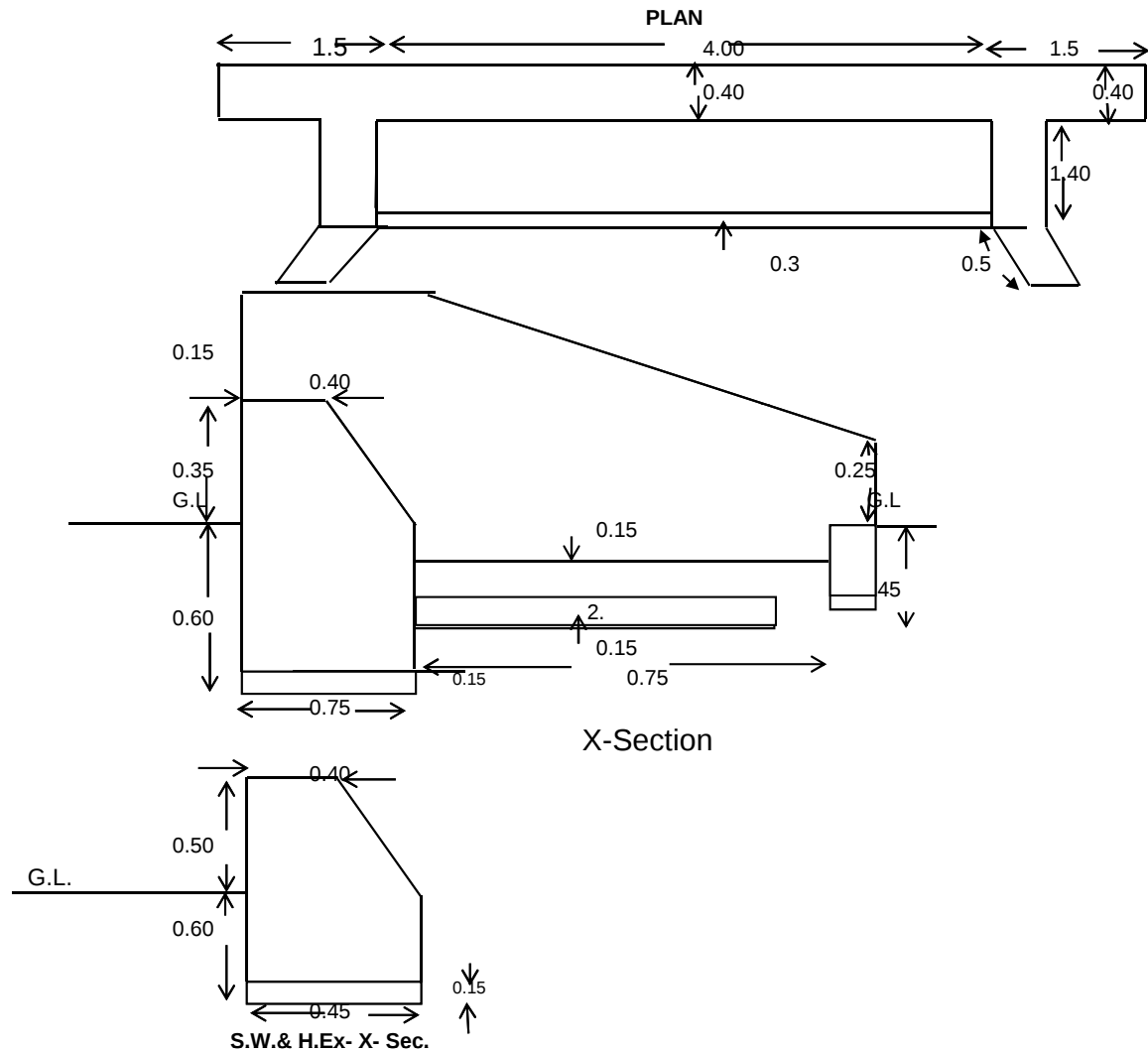
ABSTRACT OF COST

Name of work :-WHS :-Waste weir

S. No	Item No.	Particular	Qty.	Rate	Per	Amount	Labour Rate	L. Amount
1	189 (B)	Excavation in hard soil dry or moist&disposal of excavated material within initial lead of 30 m and lift of 1.5m including dressing etc complete	5.58	91.00	cum	507.78	91.00	507.78
2	192	cement concrete well mixed in cement mortar(1:3:6) laid in position complete including curing Aggregate size upto 50mm. HB	1.55	1904.00	cum	2955.96	320.00	496.8
3	190 (A)	Random rubble stone masonry in cement sand mortar(1:6) for foundation	3.58	1267.00	cum	4532.69	357.00	1277.1675
4	190 (A)	Random rubble stone masonry in cement sand mortar(1:6) for super structure	1.85	1267.00	cum	2337.62	357.00	658.665
5	70 (A)	Cement plaster including smooth finishing in cement mortar (1:4) 25mm thick	11.77	138.00	cum	1623.57	68.90	810.6085
6	194	Cement concrete coping in cement mortar 1:2:4. 100mm thick	0.27	2620.00	cum	712.64	316.00	85.952
TOTAL						12670.26		3836.973
7	188 (B)	E/W for bind / embankment in dry or moist soil including laying on layers 1.5cm	0.88	85.00		75.11	85.00	75.1099525
TOTAL						12745.37		3912.08295
Increase Due to Labour Rate 135/- to 166/-								
4810.41			Rs.8,833	Rs.13,644				
							Rs.4,810	Rs.13,644
Contingency 3%							409.31	
egk; kx							4810	14053
Total MATERIAL						9242.60	SAY	
Total LABOUR						4810.41	SAY	
G. TOTAL						14053	SAY	14100

MATERIAL CONSUMPTION STATEMENT

NAME OF WORK : RAIN WATER HARVESTING STRUCTURE				WASTE WEIR			
S.no	Particular	Qty.	Cement	Sand	Aggregate		Stone
			Bags	Cum	50mm	20mm	Cum
1	Cement concrete (1:3:6) mm HB (cum) 4.05,0.43,0.86	1.55	6.29	0.67	1.34		
2	R R stone masonry (1:6) Foundation/ Super structure (cum) 1.40, 0.30, 1.10	5.42	7.59	1.63			5.96
3	Cement plaster (1:6)25 mm thick (sqm) 0.153 0.03	11.77	1.80	0.35			
4	Raised & cut pointing (sqm) 0.0.32, 0.0043						
5	Stone kharanja in cement mortar (1:6)(cum) 1.80, 0.375, 1.20						
6	Cement concrete coping in cement mortar1:1.5:3.75 mm thick 7.33,0.40,0.78	0.27	1.99	0.11	0.21		
7	Dry stone pitching						
	TOTAL		17.67	2.76	1.55		5.96
SAY			18 BAGS	0.88 MT			



DETAILED ESTIMATE

Name of work :- ANICUT

P,S,

DISTT. BHILWARA

S.No.	PARTICULAR	No.	LENGTH	BREADT	HT/DEPTH	QUANTITY
1	Total Excavation					
	H.W.	1.00	4.00	0.75	0.60	1.80
	H.W.E.	2.00	1.50	0.45	0.60	0.81
	S.W.	2.00	1.50	0.45	0.60	0.81
	Toe wall	1.00	4.00	0.30	0.45	0.54
	Apron	1.00	4.00	0.75	0.45	1.35
	Wing Wall	2.00	0.50	0.45	0.60	0.27
				Total	(cu.m)	5.58
2	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete 10%of TotalExcavation					
				Total		5.58
5	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 50mm. HB Total Excavation					
	H.W.	1.00	4.00	0.75	0.15	0.45
	H.W.E.	2.00	1.50	0.45	0.15	0.20
	S.W.	2.00	1.50	0.45	0.15	0.20
	Toe Wall	1.00	4.00	0.30	0.15	0.18
	Apron	1.00	4.00	0.75	0.15	0.45
	Wing Wall	2.00	0.50	0.45	0.15	0.07
				Total		1.55
6	Random rubble stone masonary in cement sand mortar(1:6) for foundation					
	H.W.	1.00	4.00	0.75	0.45	1.35
	H.W.E.	2.00	1.50	0.45	0.45	0.61
	S.W.	2.00	1.50	0.45	0.45	0.61
	Toe Wall	1.00	4.00	0.30	0.30	0.36
	Apron	1.00	4.00	0.75	0.15	0.45
	Wing Wall	2.00	0.50	0.45	0.45	0.20
				Total		3.58
7	Random rubble stone masonary in cement sand mortar(1:6) forsuper structure					
	H.W.	1.00	4.00	0.58	0.35	0.81
	H.W.E	1.00	3.00	0.40	0.50	0.60
	S.W.	2.00	1.05	0.40	0.25	0.21
		2.00	0.30	0.40	0.50	0.12
		2.00	0.05	0.40	0.25	0.01
	Wing Wall	2.00	0.50	0.40	0.25	0.10
				Total		1.85

9	Cement plaster including smooth finishing in cement mortar (1:3)25mm thick				
	H.W.	1.00	4.00	0.35	1.40
		1.00	4.00	0.65	2.60
		1.00	4.00	0.30	1.20
	S.W.	2.00	0.40	0.15	0.12
		2.00	0.35	0.33	0.12
		2.00	1.05	0.25	0.53
		2.00	0.75	0.30	0.45
	H.W.E.	1.00	3.00	0.50	1.50
	Toe Wall	1.00	4.00	0.15	0.60
	Wing Wall	2.00	0.50	0.25	0.25
	Apron	1.00	4.00	0.75	3.00
			Total		11.77
11	Cement concrete coping in cement mortar1:2:4.75 mm thick				
	H.W.	1.00	4.00	0.40	0.05
	S.W.	2.00	1.80	0.40	0.05
	H.W.E.	1.00	3.00	0.40	0.05
	Toe.Wall	1.00	4.00	0.30	0.05
			Total		0.27
12	E/W for bind / embankment in dry or mosit soil including laying on layers 1.5cm Breaking of clods sort ing of grass pabbles ete and dressing in required profile when compacted manually or by plain roller with initial lead of 30mt and lift 1.5 mt (exeluding charges of waterring and compaction)				
	Hard soil				
			Total		0
13	Dry stone pitching hammer dressing with packing of voids from small stone including all lifts in required profile of depth of 20 to 23 cm				
			Total		0

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4

P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

1-	dk; dk Uke& Qke ik.M fuek.k dk;											
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2	vfrfjDr fyV dk dk; i t u 1 vkbVe u 3	1	144	196	170	0.5	85.00	?ku eh-	11.00	11.00	935.00	935.00
3	vfrfjDr yhm dk dk; i t u 1 vkbVe u 4	1	144	400	272	1	272	?ku eh-	33.80	33.80	9193.60	9193.60
	Total								Total		64311.00	64311.00

Increase Due to Labour Rate 135/- to 166/-

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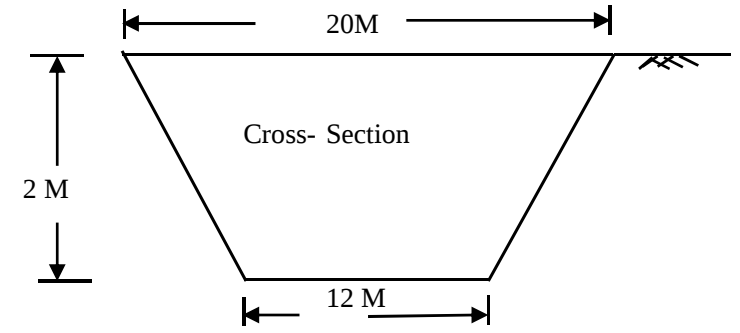
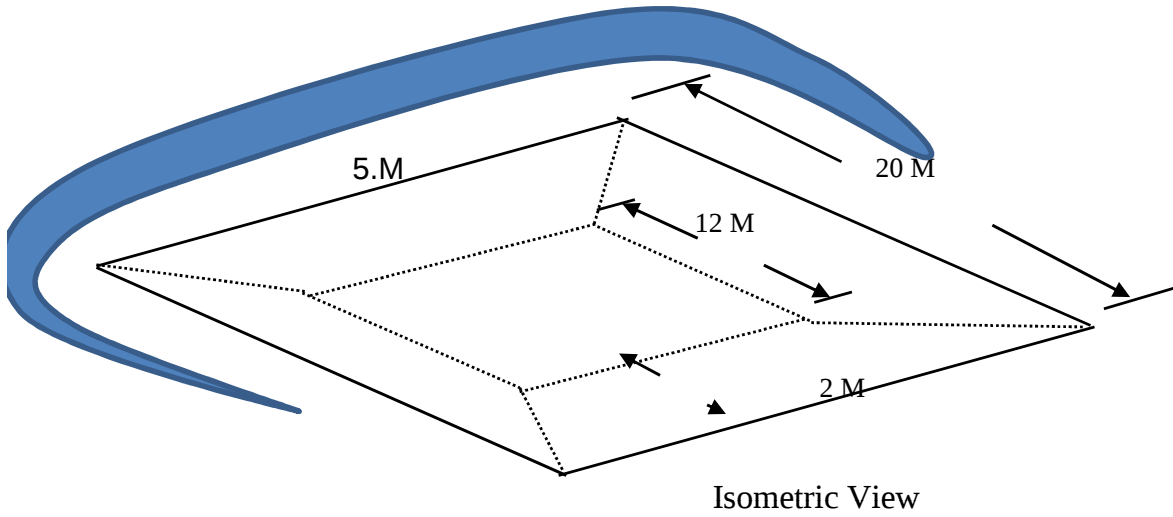
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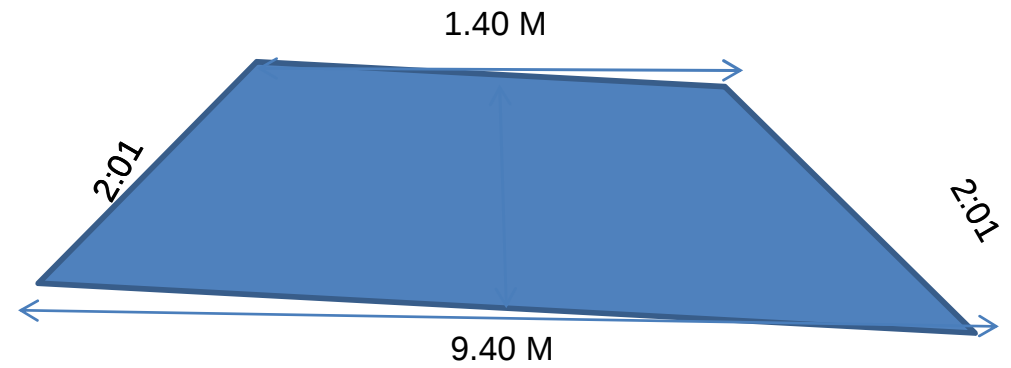
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E/W CALCULATION
 $50 \times (1.40 + 9.40) / 2 \times 2 = 540 \text{ CUM}$



SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4**P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)****Qynkj ik/kk jki.k (W/S)**

S.NO.	TYPE OF PLANTS	UNIT Hact.	UNIT COST /Ha.	Total Cost
1	GUAVA	20	40708	814160
2	ANAR	10	56571	565710
3	ORANGE	15	42097	631455
4	NEEBU	25	37646	941150
5	AWALA	10	58055	580550
TOTAL(C)		80		3533025
Av. Per Hac.				44163.00

Qynkj ik/kk jki.k (MNREGS)

S.NO.	TYPE OF PLANTS	UNIT Hact.	UNIT COST /Ha.	Total Cost
1	GUAVA	30	51600	1548000
2	ANAR	25	70500	1762500
3	ORANGE	25	53300	1332500
4	NEEBU	30	47800	1434000
5	AWALA	30	73500	2205000
TOTAL(C)		140		8282000
Av. Per Hac.				59158.00

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)
MODEL ESTIMATE OF HORTICULTURE PLANTATION

Aawla Plant

Total plant 400
Thor fencing 100
Thor Danda 700

No
Rmt/Ha
per ha

C/C 5mx5m
W/S

S.N	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum	202.5	cum	91.00	91.00	18427.50	18427.50
2	Excavation of earth work for thor fencing pit size 0.15x0.15m	2.25	cum	91.00	91.00	204.75	204.75
3	Dag balling work up to 5 to 7 cm depth	100	Rmt.	1.00	1.00	100.00	100.00
4	Supply and cutting of 80 cm thor sticks. 7 Danda /-Rmt	700.00	Per 100 stick	74.30	174.00	520.10	1218.00
5	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	700.00	Per 100 stick	100.00	100	700.00	700.00
6	Rehandling work of thor sticks up to 200 to 500mt distance.	700.00	Per 100 stick	76.50	76.5	535.50	535.50
7	Planting work of Thor sticks in 15 cm distance.	100.00	Rmt.	6.93	6.93	693.00	693.00
8	Treatment of pits					0.00	
a	Through chemicals	400	Per plant	0.55	0.55	220.00	220.00
b	Through mannure	400	Per plant	0.27	0.27	108.00	108.00
9	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc	400	Per plant	7.40	7.40	2960.00	2960.00
10	Cost of Plant including transportation (14+2)=16	400	Per plant	0.00	21.00	0.00	8400.00
11	Making of thanwala,of 50 cm radious	400	Per plant	2.40	2.40	960.00	960.00
12	Weeding & hoeing three times in the year (156x3x3=1404)	3600	Per plant	1.20	1.20	4320.00	4320.00
13	Cost of Mannure including transportation	400	Per Kg	0.50	2.00	200.00	800.00
14	Cost of Chemical including transportation	400	Per plant	0.50	1.00	200.00	400.00
	Total					30148.85	40046.75
15	Gap filling 20%					6029.77	8009.35
	Total					36178.62	48056.10
Increase Due to Labour Rate 135/- to 166/-							
	44486.30	Rs.11,877	Rs.56,364				
						Rs.44,486	Rs.56,364
					Total	Rs.44,486	56363.78
	Add.3% Contengency						1690.91
	Grand Total						58055

Labour Am 44486
Meterial Am 13568
Total Am 58055

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)
MODEL ESTIMATE OF HORTICULTURE PLANTATION

Guava Plant

Total plant 277 No C/C 6mx6m
Thor fencing 100 Rmt/Ha
Thor Danda 700 per ha W/S

S. No.	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum	140.23	cum	91.00	91.00	12761.04	12761.04
2	Excavation of earth work for thor fencing pit size 0.15x0.15m	2.25	cum	91.00	91.00	204.75	204.75
3	Dag balling work up to 5 to 7 cm depth	100	Rmt.	1.00	1.00	100.00	100.00
4	Supply and cutting of 80 cm thor sticks. (7 Danda /-Rmt)	700.00	Per 100 stick	74.30	174.00	520.10	1218.00
5	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	700.00	Per 100 stick	100.00	100.00	700.00	700.00
6	Rehandling work of thor sticks up to 200 to 500mt distance.	700.00	Per 100 stick	76.50	76.5	535.50	535.50
7	Planting work of Thor sticks in 15 cm distance.	100.00	Rmt.	6.93	6.93	693.00	693.00
8	Treatment of pits					0.00	
a	Through chemicals	277	Per plant	0.55	0.55	152.35	152.35
b	Through mannure	277	Per plant	0.27	0.27	74.79	74.79
9	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc	277	Per plant	7.40	7.40	2049.80	2049.80
10	Cost of Plant including transportation (16+2=18)	277	Per plant	0.00	18.00	0.00	4986.00
11	Making of thanwala,of 50 cm rarious	277	Per plant	2.40	2.40	664.80	664.80
12	Weeding & hoeing three times in the year (277x3x3=2493)	2493	Per plant	1.20	1.20	2991.60	2991.60
13	Cost of Mannure including transportation	277	Per Kg	0.50	2.00	138.50	554.00
14	Cost of Chemical including transportation	277	Per plant	0.25	1.00	69.25	277.00
	Total					21655.48	27962.63
15	Gap filling 20%					4331.097	5592.53
	Total					25986.58	33555.16
Increase Due to Labour Rate 135/- to 166/-							
		31953.87	Rs.7,569	Rs.39,522			
						Rs.31,954	Rs.39,522
					Total	Rs.31,954	39522.45
	Add.3% Contengency						1185.67
	Grand Total						40708

Labour Am 31954
Material Am 8754
Total Am 40708

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)
MODEL ESTIMATE OF HORTICULTURE PLANTATION

Anar Plant

Total plant 400
Thor fencing 100
Thor Danda 700

No C/C 5mx5m
Rmt/Ha
per ha W/S

S. No.	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum	202.50	cum	91.00	91.00	18427.50	18427.50
2	Excavation of earth work for thor fencing pit size 0.15x0.15m	2.25	cum	91.00	91.00	204.75	204.75
3	Dag balling work up to 5 to 7 cm depth	100	Rmt.	1.00	1.00	100.00	100.00
4	Supply and cutting of 80 cm thor sticks. 7 Danda /-Rmt	700.00	Per 100 stick	74.30	174.00	520.10	1218.00
5	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	700.00	Per 100 stick	100.00	100	700.00	700.00
6	Rehandling work of thor sticks up to 200 to 500mt distance.	700.00	Per 100 stick	76.50	76.5	535.50	535.50
7	Planting work of Thor sticks in 15 cm distance.	100.00	Rmt.	6.93	6.93	693.00	693.00
8	Treatment of pits					0.00	
a	Through chemicals	400	Per plant	0.55	0.55	220.00	220.00
b	Through mannure	400	Per plant	0.27	0.27	108.00	108.00
9	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc	400	Per plant	7.40	7.40	2960.00	2960.00
10	Cost of Plant including transportation (14+2)=16	400	Per plant	0.00	18.00	0.00	7200.00
11	Making of thanwala,of 50 cm radious	400	Per plant	2.40	2.40	960.00	960.00
12	Weeding & hoeing three times in the year (400x3x3=360)	3600	Per plant	1.20	1.20	4320.00	4320.00
13	Cost of Mannure including transportation	400	Per Kg	0.50	2.00	200.00	800.00
14	Cost of Chemical including transportation	400	Per plant	0.50	1.00	200.00	400.00
	Total					30148.85	38846.75
15	Gap filling 20%					6029.77	7769.35
	Total					36178.62	46616.10
Increase Due to Labour Rate 135/- to 166/-							
	44486.30	Rs.10,437	Rs.54,924				
						Rs.44,486	Rs.54,924
					Total	Rs.44,486	54923.78
	Add.3% Contengencey						1647.71
	Grand Total						56571

Labour Am 44486
Meterial Am 12085
Total Am 56571

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)
MODEL ESTIMATE OF HORTICULTURE PLANTATION

Nimbu Plant

Total plant 277
Thor fencing 100
Thor Danda 700

No C/C 6mx6m
Rmt/Ha
per ha W/S

S. No.	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum	140.23	cum	91.00	91.00	12761.04	12761.04
2	Excavation of earth work for thor fencing pit size 0.15x0.15m	2.25	cum	91.00	91.00	204.75	204.75
3	Dag balling work up to 5 to 7 cm depth	100	Rmt.	1.00	1.00	100.00	100.00
4	Supply and cutting of 80 cm thor sticks. (7 Danda /-Rmt)	700.00	Per 100 stick	74.30	174.00	520.10	1218.00
5	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	700.00	Per 100 stick	100.00	100.00	700.00	700.00
6	Rehandling work of thor sticks up to 200 to 500mt distance.	700.00	Per 100 stick	76.50	76.50	535.50	535.50
7	Planting work of Thor sticks in 15 cm distance.	100.00	Rmt.	6.93	6.93	693.00	693.00
8	Treatment of pits						
a	Through chemicals	277	Per plant	0.55	0.55	152.35	152.35
b	Through mannure	277	Per plant	0.27	0.27	74.79	74.79
9	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc	277	Per plant	7.40	7.40	2049.80	2049.80
10	Cost of Plant including transportation (7+2=9)	277	Per plant	0.00	9.00	0.00	2493.00
11	Making of thanwala,of 50 cm radious	277	Per plant	2.40	2.40	664.80	664.80
12	Weeding & hoeing three times in the year (277x3x3=2493)	2493	Per plant	1.20	1.20	2991.60	2991.60
13	Cost of Mannure including transportation	277	Per Kg	0.50	2.00	138.50	554.00
14	Cost of Chemical including transportation	277	Per plant	0.50	1.00	138.50	277.00
	Total					21724.73	25469.63
15	Gap filling 20%					4344.947	5093.93
	Total					26069.68	30563.56
Increase Due to Labour Rate 135/- to 166/-							
		32056.05	Rs.4,494	Rs.36,550			
						Rs.32,056	Rs.36,550
					Total	Rs.32,056	36549.93
	Add.3% Contengency						1096.50
	Grand Total						37646

Labour Am 32056
Material Am 5590
Total Am 37646

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)
MODEL ESTIMATE OF HORTICULTURE PLANTATION

Orange Plantation

Total plant 277
Thor fencing 100
Thor Danda 700

No C/C 6mx6m
Rmt/Ha
per ha W/S

S. No.	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum	140.23	cum	91.00	91.00	12761.04	12761.04
2	Excavation of earth work for thor fencing pit size 0.15x0.15m	2.25	cum	91.00	91.00	204.75	204.75
3	Dag balling work up to 5 to 7 cm depth	100	Rmt.	1.00	1.00	100.00	100.00
4	Supply and cutting of 80 cm thor sticks. (7 Danda /-Rmt)	700.00	Per 100 stick	74.30	174.00	520.10	1218.00
5	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	700.00	Per 100 stick	100.00	100.00	700.00	700.00
6	Rehandling work of thor sticks up to 200 to 500mt distance.	700.00	Per 100 stick	76.50	76.50	535.50	535.50
7	Planting work of Thor sticks in 15 cm distance.	100.00	Rmt.	6.93	6.93	693.00	693.00
8	Treatment of pits						
a	Through chemicals	277	Per plant	0.55	0.55	152.35	152.35
b	Through mannure	277	Per plant	0.27	0.27	74.79	74.79
9	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc	277	Per plant	7.40	7.40	2049.80	2049.80
10	Cost of Plant including transportation (20+2=22)	277	Per plant	0.00	22.00	0.00	6094.00
11	Making of thanwala,of 50 cm rarious	277	Per plant	2.40	2.40	664.80	664.80
12	Weeding & hoeing three times in the year (277x3x3=1404)	2493	Per plant	1.20	1.20	2991.60	2991.60
13	Cost of Mannure including transportation	277	Per Kg	0.50	2.00	138.50	554.00
14	Cost of Chemical including transportation	277	Per plant	0.50	1.00	138.50	277.00
	Total					21724.73	29070.63
15	Gap filling 20%					4344.94675	5814.13
	Total					26069.68	34884.76
Increase Due to Labour Rate 135/- to 166/-							
	32056.05	Rs.8,815	Rs.40,871				
						Rs.32,056	Rs.40,871
					Total	Rs.32,056	40871.13
	Add.3% Contengency						1226.13
	Grand Total						42097

Labour Am 32056
Meterial Am 10041
Total Am 42097

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

Name of Village :-							
Name of Panchayat :-							
Name of Work :- Pasture Land Development (NRM)							
Costing & Quantity Estimation of Pasture Land Development							
1.00	Ha. Area for trenching,	Size of trench	0.45 mt. Depth	0.45	mt. Width		
33.3	Mt. Contour to contour intervals	0.2025	Sq.m cross section area of trench				
80	MM / Hr. Rainfall intensity of area						0.002
296	Mt. trenching length required in one hectare of la	Say CCT/ha.	300.00				
60	Rmt. Length of Ditch cum bund fencing per ha.						
278	Plants to be planted in one hectare	Say	300		36.00	2.5 x 2.5 mt. Spacing	
1.20	Mt. Depth of cattle protection trench,	Top width	1.5		Bottom width	0.9	
1.44	Sqm cross section area of DCB	60.00	Rmt. Length of Ditch cum bund fencing per ha.Total C P T				
S.no	Particular	Unit	Quantity	Labour Rate	Total Rate	Labour Cost	Total Amount
(A)	Ditch cum bund						
1	Dug belling work up to 5 to 7 cm depth. (4X60=240)	Rmt.	240	1.00	1.00	240	240.00
2	Excavation of Ditch cum bund fencing	Cum	86.4				
3	Hard Soil 40% (60X1.44X0.4=34.56)	Cum	34.56	91	91	3144.96	3144.96
4	Ordinary Murram 30% (60X1.44X0.3=25.92)	Cum	25.92	99	99	2566.08	2566.08
5	Disintric Rock 30% (60X1.44X0.3=25.92)	Cum	25.92	134	134	3473.28	3473.28
(B)	Thor fencing work						
6	Excavation for thor fencing size 0.15x0.15x60 m	Cum	1.35	91	91	122.85	122.85
(C)	Counter Trench						
7	Layout (by A-farm or dumpy level) for contouring.	Rmt.	300	0.31	0.31	93	93.00
8	Dug belling work up to 5 to 7 cm depth for contouring. (2X300=600)	Rmt.	600	1.00	1.00	600	600.00
40%	Contour trench Excavation in 40 % Hard soil for trenching. (1X300X0.2025X0.40=24.30)	Cum	24.3	91	91.00	2211.3	2211.30
60%	Contour trench Excavation in 60 % Ordinary Murram for trenching. (1X300X0.2025X0.60=36.45)	Cum	36.45	99	99.00	3608.55	3608.55
(D)	Pits Work						
40%	Pit digging in hard soil of size 45x45x45 Cm.	Per pit	120	7.48	7.48	897.6	897.60
60%	Pit digging in moorm soil of size 45x45x45 Cm.	Per pit	180	14.74	14.74	2653.2	2653.20
9	Ring making of 1.0 Mt. Radius & 30 Cm. width X 20 Cm. Depth.	Per plant	300	2.40	2.40	720	720.00
Note:- All Rates Apply Gramin kary Nirdesika 2011					Total	Rs.20,331	Rs.20,331
Increase Due to Labour Rate 135/- to 166/-							
24999.37867			Rs.0	Rs.24,999			
	Total					Rs.24,999	Rs.24,999
	Contengency 3%						750
	Total Amount						25749

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

Name of Work :- Pasture Land				(Production)		W/S	
Costing & Quantity Estimation of Pasture Land Development							
1	Ha. Area for P.D,						
60	Rmt. Length of Ditch cum bund fencing per ha.						
277.8	Plants to be planted in one hectare	Say	300		36.00	6 x 6 mt. Spacing	
S.no	Particular	Unit	Quantity	Labour Rate	Total Rate	Labour Cost	Total Amount
(A)	Thor fencing work						
1	Supply and cutting of 80 cm thor sticks. (7N0 Danda /- Ha)	Per 100 stick	420	74.3	174	312.06	730.80
2	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	Per 100 stick	420	100	100	420	420.00
3	Rehandling work of thor sticks up to 200 to 500mt distance.	Per 100 stick	420	76.5	76.5	321.3	321.30
4	Planting of Thor sticks.	Rmt.	60	6.93	6.93	415.8	415.80
(B)	Plantation work						
5	Treatment of pit by FYM & Cloropairiphas (25gm per pit)	Per pit	300	0.82	0.82	246	246.00
6	Cost of Cloropairiphas (As per market Rate)	Per Kg	7.50	0.00	32.00	0	240.00
7	Cost of cloropairyphose As per market Rate.3x0.6=1.8 lit	Per litre	1.80	0.00	280.00	0	504.00
8	Cost of FYM						600.00
8	Cost of saplings	Per plant	300	0	5.00	0	1500.00
9	Transportation Cost of saplings from 10 km distance.	Per 1000 Plant	0.3	196	1435.00	58.8	430.50
10	Planting of plant with Rehandling work 100m distance, mixing of soil with FYM,cloropairyphose & filling of pit.cutting of polythine bag & planting with doing compact soil.	Per pit	300	7.40	7.40	2220	2220.00
11	Planting of Aloe vera plant on top of contour trench 0.60m spacing with complete work.600x0.6=360 Rmt	Per Rmt	360	9.97	9.97	3589.2	3589.20
12	Cost of Aloe vera including transport 10 Km + Loading Unloading + Rehandling 50% (3.75 + 0.94 + 0.297 + 0.3715 = 5.36)	Per plant	600	0	5.36	0	3216.00
14	Watering to the plant with 15 liters per plant for first year three times,second year five times & third year five times with mixing cloropairyphose.(2ml per pit) (300X13=3900)	Per plant	3900	1.85	1.85	7215	7215.00
15	Transportation Cost of water up to 5 km distance.(300X13X15=58500)	Per 4000 Litre	58500.00	0	450.00	0	6581.25

S.no	Particular	Unit	Quantity	Labour Rate	Total Rate	Labour Cost	Total Amount
16	Weeding & Hoeing (300X2X3=1800)	Per plant	1800	1.20	1.20	2160	2160.00
17	Ploughing by tractor cultivator and grass seed broadcasting (seed rate 6 to 8 kgs/ha) cost of seed not included	Ha.	0.80	284.00	964.00	227.2	771.20
18	Grass seed As per forest BSR 2004-2005 page no-12.						
100%	Dhaman	Kg.	12	0	82.00	0	984.00
19	Making pallets of mixture of fine soil, grass seed, manure etc (seed rate 6 to 8 kgs/ha) cost of seed not included	Kg.	12.00	18.90	18.90	226.8	226.80
20	Sowing of grass seed pallets on bunds in two rows.	Rmt.	720	0.59	0.59	424.8	424.80
21	Sowing of tree seed on ridges.	Rmt.	300.00	0.59	0.59	177	177.00
22	Sowing of tree seed on bund (Desi Babool,neem & jetropha).	Rmt.	180	0.59	0.59	106.2	106.20
23	Tree seed As per forest BSR 2004-2005 page no-12.						
	Deshibabool	Kg.	0.40	0.00	18.00	0	7.20
	Kher	Kg.	0.40	0.00	19.00	0	7.60
	Neem	Kg.	0.40	0.00	39.00	0	15.60
	Kumath	Kg.	0.40	0.00	33.00	0	13.20
24	One man chokidar for three year (within 25 Ha)	No	43.80	135.00	135.00	5913	5913.00
25	Gap filling in Second year (20%)					3097.8	4985.19
Note:- All Rates Apply Gramin kary Nirdesika 2011					Total	Rs.27,131	Rs.44,022
Increase Due to Labour Rate 135/- to 166/-							
33361.0323			Rs.16,891	Rs.50,252			
						Rs.33,361	Rs.50,252
					Total	Rs.33,361	50251.71
	Add.3% Contengencey						1507.55
	Grand Total						51759.26

Total Cost/ Ha	Labour Cost/ Ha	Material Cost/ Ha
51759	33361	18398

Total Cost of Pasture Development		77508
NRM Part		25749
Production		51759

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

Name of Village :-								
Name of Panchayat :-							ALOEVERA NRM	
Name of Work :- Pasture Land Development								
Costing & Quantity Estimation of Pasture Land Development								
1	Ha. Area for P.D,							
400		Rmt. Length of Thore fencing per ha.						
400		Plants to be planted in one hectare	Say	400			1.0 x 1.0 mt. Spacing	
					Rate		Ammount	
(A)	BSR	Plantation work	Unit	Quantity	Labour Rate	Total Rate	Labour Cost	Total Amount
1	180	Planting of Aloe vera plant on Boundary of field & (0.6mx0.6m) spacing with complete work (400x0.6=240 Rmt)	Per Rmt	240	9.97	9.97	2392.8	2392.8
2		Cost of Aloe vera Including Transportation 10 Km + Loading Unloading + Rehandling 50 %(3.75+0.94+0.297+0.3715=5.36)	Per plant	400	1	5.38	400	2151.40
3	SP	Grass Seeding work (Dhaman Seed)12 kg/-Ha	Per Kg	12	0	82.00	0	984.00
4	159	Making of Pallets	Per Kg	12	18.9	18.90	226.8	226.80
5	161	Spreeding of Grass Seed	Per Ha	1	160	160.00	160	160.00
Note:- All Rates Apply Gramin kary Nirdesika 2011							Total	Rs.3,180
Increase Due to Labour Rate 135/- to 166/-								
3909.73037			Rs.2,735	Rs.6,645				
							Rs.3,910	Rs.6,645
	Contengency 3%							199.35
	egk;kx						3910	6844

	Total Cost/ Ha	Labour Cost/ Ha	Material Cost/ Ha
	6844	3910	2935
Total Cost of Private Pasture Dovelopment	6844		
Cost From w/s scheme	6844		

NADI IN P. D. BLOCK

1 Name of village :- P.S. - SAHADA DISTT. BHILWARA (RAJ.)
 2 Name of work :- **CONTRUCTION OF NADI WITH WASTEWEIR**

Design

1 Available crest length 6.00 M
 2 Total catchment area 20.00 Ha
 3 Hight of structure 0.80 M

A Design discharge (By flood discharge method)

HYDROLIC DESIGN

Peak rate of run off in cum/sec.=

$$Q = \frac{C I A}{36} \quad C = 0.40$$

$$Q = 1.78 \text{ cumsec}$$

$$\text{Say } 2.00 \text{ cumsec}$$

Catchment Area 20.00 Ha

$$K = \sqrt{\frac{L^3}{H}}$$

$$L = 1200.00 \text{ M}$$

$$H = 4.00 \text{ M}$$

$$K = 20784.61$$

$$T_c = 0.0195 K^{0.1}$$

$$41.18$$

$$I = 8.00 \text{ cm/hr.}$$

HYDROLIC DESIGN

$$Q = 1.71 L(h)^{3/2} \quad L = 6.00 \text{ mt length available at site}$$

$$h = [Q/1.71 L]^{2/3}$$

$$h = 0.34 \text{ Say } 0.35$$

$$\text{Taking free board as } 0.3 \text{ M}$$

$$\text{Total d } = 0.65$$

C. STRUCTURAL DESIGN

(i) Top width of Head wall

$$h/(p-1)^{0.5} \quad 0.31 \quad 0.31 \text{ say } = 0.60 \text{ M}$$

$$\text{(as per site condition where } h = 0.35 \text{ m } p = 2.30) \quad 0.35$$

p Specific gravity of stone masnory in cm = 2.3

(ii) Bottom width of head wall

$$b = 0.8H + T.W + 3 \quad 1.54 \quad \text{Say } = 1.60 \text{ M}$$

$$H = \text{height of head wall in meters} = 0.8 \text{ m} \quad 0.80 \text{ M}$$

(iii) Length of head wall extension

$$H + d + 1 \quad 2.45 \quad 2.45 \text{ M}$$

$$d = h + \text{free board} = 0.65 \quad 0.65 \text{ M}$$

$$\text{but as per side condition L/S M } 1.5 \quad \text{R/S M } 1.5 \quad 3.00 \text{ M}$$

(iv) Height of Head wall extension

$$H + d = 1.45 \text{ M}$$

(v) Botton width of HW ext. side wall & wing wall

$$0.5(H+h) = 0.58 \quad 0.60 \text{ M}$$

(vi) Top width of HW ext

$$0.4H = 0.32 \quad 0.60 \text{ M}$$

(vii) APRON WIDTH

$$= H + d = 1.45 \quad 1.45 \text{ M}$$

(viii) Thickness of Basin = 0.60m(incloding concreting)

(ix) Height of side wall

$$H + d = 1.45 \quad 1.45 \text{ M}$$

(x) Height of side wall = 1.5h at W W joints

$$1.5h = 0.53 \quad 0.50 \text{ M}$$

(xi) Length of side wall = B. W. of H. W - B.W of H W E + Apron width + width of toe wall

$$2.90$$

(xii) Length of wing wall = 2.25 h =

$$0.79 \quad 0.80 \text{ M}$$

(xiii) Height of the wing wall =

$$0.53 \quad 0.60 \text{ M}$$

(xiv) Top width of Head wall ext site wall wing wall = 0.60mt

(xv) Width of toe wall =

$$0.45 \text{ M}$$

(xvi) Height of toe wall =

$$0.30 \text{ M}$$

(xvii) Height of wing wall at wing end =

$$0.60 \text{ M}$$

(xviii) Bottem width of the side wall & wing wall taking as per Bottom width

$$\text{of the head wall ext as in item no.5} = 0.60 \text{ M}$$

$$\text{(xix) Depth of foundation taking as } 1.00 \text{ M}$$

STABILITY CHECK'S

a	Top width of anicut	=	0.60 m
b	Bottom width of anicut	=	1.60 m
$w_1 + w_2$ self weight of anicut			
p_1	Pressure due to water on wall		
p_2	Horizontal water pressure		
p_3	Up lift pressure		
h	Food height	=	0.35 m
H	height of anicut	=	0.80 m
L	considering one metre	=	1
S			2.3
C			0.6

Forces acting on a over flow gravity dam

Forces and moment calculation's

considering one metre length of anicut and taking

Restoring moment as positive (+ ve) and overturning moment

as negative (-ve)

moment taken at B

s. no.	Forces	v- vertical forces	H- horizontal forces	Force acting at a distance from B	moment at B 2×5	
					+ ve	-ve
1	$w_1 = a \times H \times L \times S$					
		1.10	1.10	2.20	2.43	
2	$w_2 = 1/2 \times (b-a) \times H \times L \times S$					
		0.92	0.92	1.13	1.04	
3	$p_1 = w \times h \times H$					
		0.28		0.28	0.90	0.25
4	$p_2 = w \times H^2 / 2 \times H$					
		0.32		0.32	0.60	0.19
5	$p_3 = c \times w \times b \times (H+h) / 2$					
		0.46	0.46	1.80		0.83
	TOTAL	1.56	0.60		3.47	1.27

$E_m = m_r - m_o$

2.19

CHECKS IN OVERTURNING

Factor of safety against overturning

$E_m / E_o = +m / -m = \text{Restoring moment} / \text{overturning moment}$

2.72

it is more than 1.50 hence structure is safe against overturning

SLIDING

Factor of safety against sliding

$E_v / E_h =$ 2.61

it is more than 1.0 hence structure is safe against sliding

RUPTURE (safety against tension at the base)

X Resultant Position of resultant measured from toe

$x = E_m / E_v =$ 1.40

$e = b/2 - X$ -0.60

$E_v / b (1 + 6e/b)$ -1.29

$E_v / b (1 - 6e/b)$ 3.24

P max = -1.29

P min = 3.24

ABSTRACT OF COST

Name of work :-WHS :-Anicut

S.No	Item no	Particular	Qty.	Rate Per	Amount	Labour Rate	L.Amount
1	2,(b)1	Excavation in hard soil dry or moist&disposal of excavated material within initial lead of 30 m and lift of 1.5m including dressing etc complete	2.71	91.00 cum	246.25	91.00	246.246
2	2(c),1	Excavation in ordinary murram or earth mixed with bajri and kankar or boulder dry or moist&disposal of excavated material within initial lead of 30 m and lift of 1.5m including dressing etc complete	8.12	99.00 cum	803.68	99.00	803.682
3	2(d),1	Excavation in disintegrated rock and or soft rock or hard bankar or compacted murram dry or moist including dressing&disposal of excavated material within initial lead of 30m and lift of 1.5m	16.24	134.00 cum	2175.62	134.00	2175.624
4	192,17	cement concrete well mixed in cement mortar(1:3:6) laid in position complete including curing Aggregate size upto 40mm. HB	8.46	1871.00 cum	15828.66	320	2707.2
5	27,3	Random rubble stone masonry in cement sand mortar(1:6) for foundation	14.73	1274.00 cum	18766.02	357	5258.61
6	28,3	Random rubble stone masonry in cement sand mortar(1:6) for super structure	14.03	1274.00 cum	17875.49	357	5009.067
7	70,8	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	33.21	139.00 cum	4615.50	68.9	2287.8245
8	40(ii),4	Cement concrete coping in cement mortar 1:1.5:3.100mm thick	0.99	2651.00 cum	2636.42	316	314.262
9	2(b),1	E/W for bind / embankment in dry or moist soil including laying on layers 1.5cm Breaking of clods sorting of grass pabbles etc and dressing in required profile when compacted manually or by plain roller with initial lead of 30mt and lift 1.5 mt (excluding charges of watering and compaction) Hard soil	1440.00	91.00 cum	131040.00	91.00	131040
TOTAL					193987.64		149842.52
Increase Due to Labour Rate 135/- to 166/-							
			184250.80	Rs.44,145	Rs.228,396		
						Rs.184,251	Rs.228,396
Contingency 3%							6851.88
egk;lx						184251	235248
Total MATERIAL					50997.00 SAY		0.510
Total LABOUR					184250.80 SAY		1.843
G. TOTAL					235250.00 Say		2.3525

DETAILED ESTIMATE

S.No.	PARTICULAR	No.	LENGTH	BREADTH	HT/DEPTH	QUANTITY
1	Total Excavation					
	H.W.	1.00	6.00	1.60	1.00	9.60
	H.W.E.	1.00	3.00	0.60	1.00	1.80
	S.W.	2.00	2.90	0.60	1.00	3.48
	wing wall	4.00	0.80	0.60	1.00	1.92
	Toe wall	1.00	6.00	0.45	0.90	2.43
	Apron	1.00	6.00	1.45	0.90	7.83
				Total	(cu.m)	27.06
2	Excavation in hard soil dry or moist & disposal of excavated material within initial lead of 30 m and lift of 1.5m including dressing etc complete 10% of Total Excavation					
				Total		2.71
3	Excavation in ordinary murram or earth mixed with bajri and kankar or boulder dry or moist & disposal of excavated material within initial lead of 30 m and lift of 1.5m including dressing etc complete 30% of Total Excavation					
				Total		8.12
4	Excavation in disintegrated rock and or soft rock or hard bankar or compacted murram dry or moist including dressing & disposal of excavated material with initial lead of 30m and lift of 1.5m 60% of Total Excavation					
				Total		16.24
5	cement concrete well mixed in cement mortar(1:3:6) laid in position complete including curing Aggregate size upto 50mm. HB Total Excavation					
	H.W.	1.00	6.00	1.60	0.30	2.88
	H.W.E.	1.00	3.00	0.60	0.30	0.54
	S.W.	2.00	2.90	0.60	0.30	1.04
	Wing Wall	4.00	0.80	0.60	0.30	0.58
	Toe Wall	1.00	6.00	0.45	0.30	0.81
	Apron	1.00	6.00	1.45	0.30	2.61
				Total		8.46
6	Random rubble stone masonry in cement sand mortar(1:6) for foundation					
	H.W.	1.00	6.00	1.30	0.70	5.46
	H.W.E.	1.00	3.00	0.60	0.70	1.26
	S.W.	2.00	2.90	0.60	0.70	2.44
	Wing Wall	4.00	0.80	0.60	0.70	1.34
	Toe Wall	1.00	6.00	0.45	0.60	1.62
	Apron	1.00	6.00	1.45	0.30	2.61
				Total		14.73

7	Random rubble stone masonry in cement sand mortar(1:6) for super structure					
	H.W.	1.00	6.00	0.95	0.80	4.56
	H.W.E	1.00	3.00	0.60	1.45	2.61
	S.W.	2.00	1.90	0.60	1.03	2.34
		2.00	1.00	0.60	1.45	1.74
		2.00	0.00	0.60	0.73	0.00
	Wing Wall	4.00	0.80	0.60	1.45	2.78
			Total			14.03
8	Cement plaster including smooth finishing in cement mortar (1:3) 25mm thick					
	H.W.	1.00	6.00	0.80		4.80
		1.00	6.00	1.10		6.60
		1.00	6.00	0.30		1.80
	S.W.	2.00	0.60	0.65		0.78
		2.00	1.00	1.05		0.78
		2.00	1.90	1.03		3.90
		2.00	1.45	0.30		0.87
	Wing Wall	2.00	0.80	0.60		0.96
		2.00	0.60	0.60		0.72
	H.W.E.	1.00	3.00	0.50		1.50
	Toe Wall	1.00	6.00	0.30		1.80
	Apron	1.00	6.00	1.45		8.70
			Total			33.21
9	Cement concrete coping in cement mortar 1:2:4.75 mm thick					
	H.W.	1.00	6.00	0.60	0.08	0.27
	S.W.	2.00	3.50	0.60	0.08	0.32
	Wing Wall	2.00	0.80	0.60	0.08	0.07
	H.W.E.	1.00	3.00	0.60	0.08	0.14
	Toe Wall	1.00	6.00	0.45	0.08	0.20
	Apron	0.00	6.00	1.45	0.10	0.00
			Total			0.99
10	E/W for bind / embankment in dry or moist soil including laying on layers 1.5cm Breaking of clods sorting of grass pabbles etc and dressing in required profile when compacted manually or by plain roller with initial lead of 30mt and lift 1.5 mt (excluding charges of watering and compaction) Hard soil	1440				1440.00
			Total			1440.00

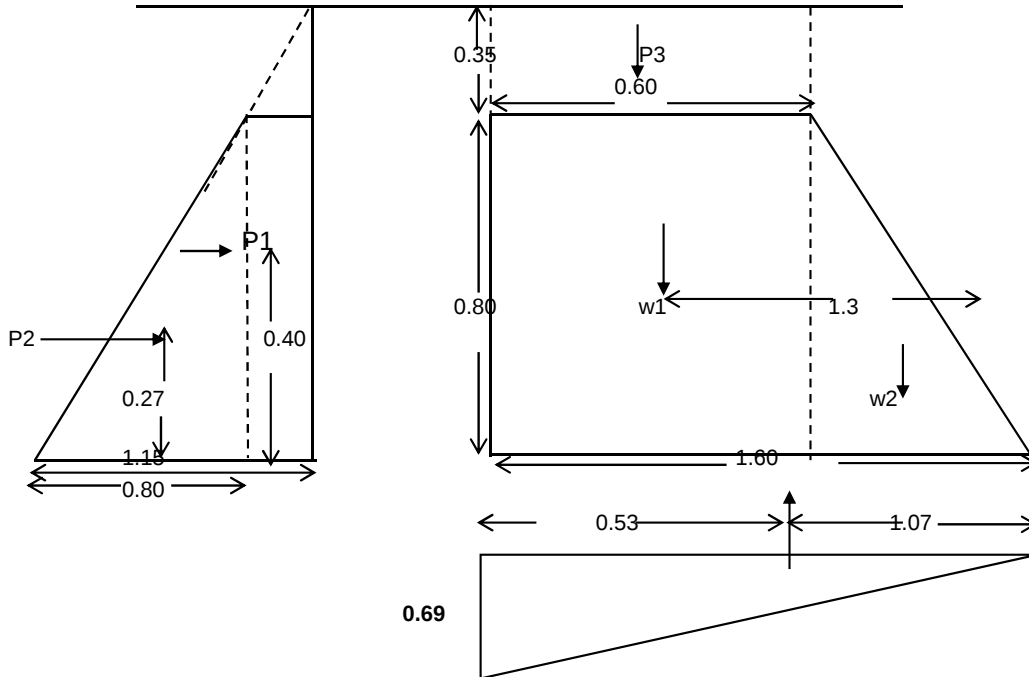
MATERIAL CONSUMPTION STAEMENT

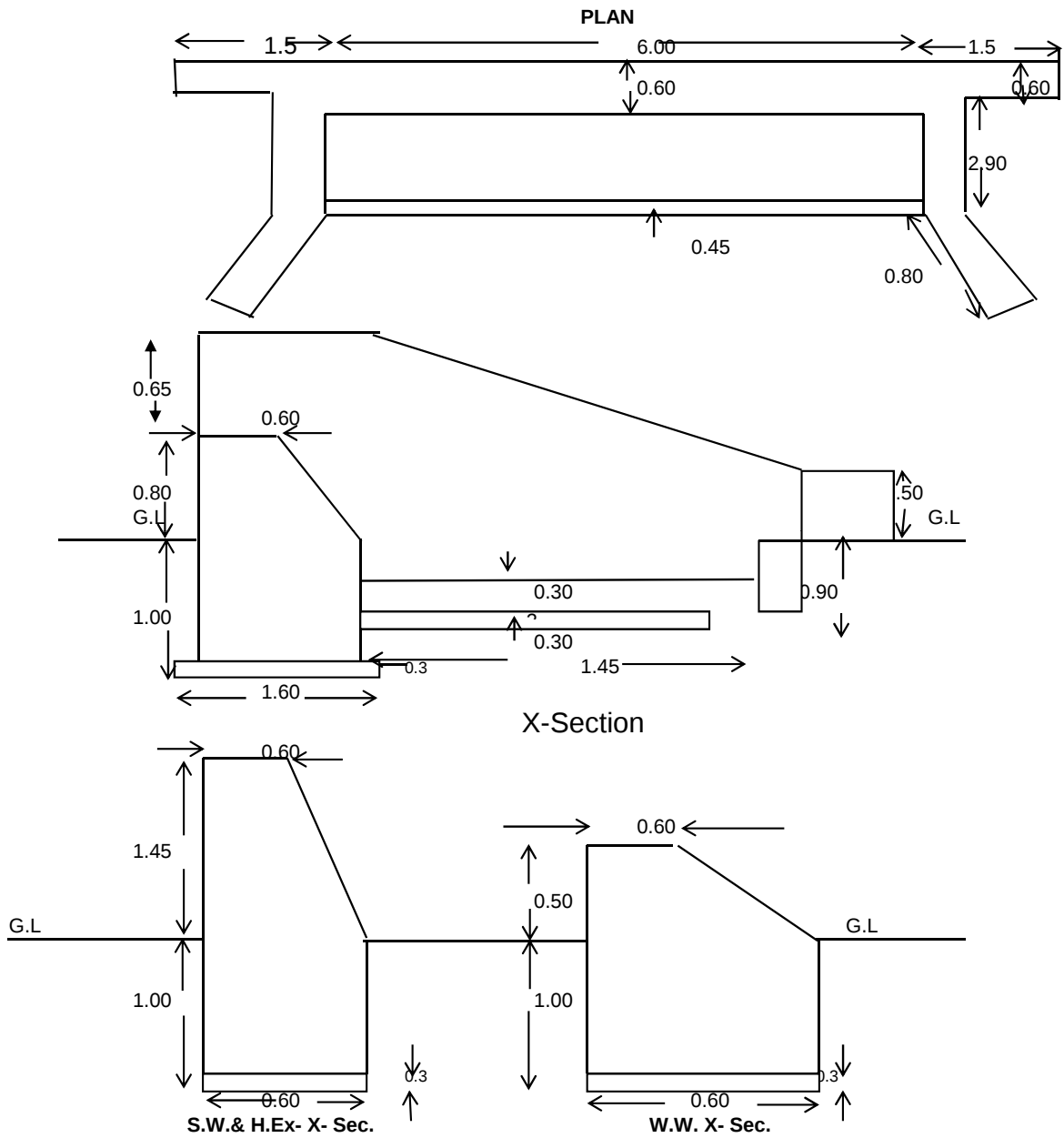
NAME OF WORK : RAIN WATER HARVESTING STRUCTURE				ANICUT			
S.no	Particular	Qty.	Cement	Sand	Aggregate		Stone
			Bags	Cum	50mm	20mm	Cum
1	Cement concrete (1:3:6) mm HB (cum) 4.05,0.43,0.86	8.46	34.26	3.64	7.28		
2	R R stone masonry (1:6) Foundation/ Super structure (cum) 1.40, 0.30, 1.10	28.76	40.27	8.63			31.64
3	Cement plaster (1:6)25 mm thick (sqm) 0.153 0.03	33.21	5.08	1.00			
4	Raised & cut pointing (sqm) 0.0.32, 0.0043						
5	Stone kharanja in cement mortar (1:6)(cum) 1.80, 0.375, 1.20						
6	Cement concrete coping in cement mortar1:1.5:3.75 mm thick 7.33,0.40,0.78	0.99	7.29	0.40	0.78		
7	Dry stone pitching						
		TOTAL	86.90	13.66	8.05		31.64

SAY

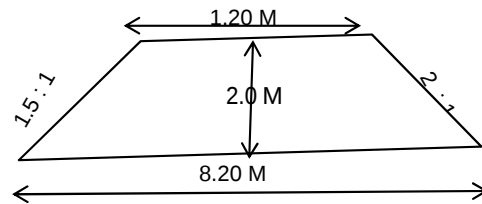
87 BAGS

4.34 MT





E/W CALCULATION
 $150 \times (1.20 + 8.20) / 2 \times 2 = 1410$



X - SECTION OF EARTHEN BUND

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4

P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

OPEN LAND CONTOUR TRENCH

Name of Work :- Continious contour trench								
Jal Grahani Vikash Samiti								
Costing & Quantity Estimation of Contour trench								
Total length of CCT per ha =300 m/ha								
CX= 0.2025 Cum								
		Total Area in Ha	1		Rate		Amount	
S. No.	BSR	Item	Quantity	Unit	LC	TOTAL	LC	Amount
1	155(A)	Marking of contour line through dumpy level	300	Per metre	0.27	0.31	81.00	93.00
2	156	Dug belling work for CCT up to 5-7 cm depth (As per BSR2011, P.no. 14, item no. 155a) (2X300=600)	600	Rm	1.00	1.00	600.00	600.00
		Quantity of E/W (300Rmt X 0.2025=60.75 cum)	60.75	Cum			0.00	0.00
3		Excavation of hard soil for CCT as per BSR2011, P.no. 17, item no. 189b) 40%	24.3	Cum	91.00	91.00	2211.30	2211.30
4		Excavation of murram for CCT as per BSR2011, P.no. 17, item no. 189c) 60%	36.45	Cum	99.00	99.00	3608.55	3608.55
5		Sowing of local grass seed on bunds As per BSR2007, P.no. 11, item no. 142) (3X300=900)	900	Rm	0.59	0.59	531.00	531.00
6		Grass seed						
A	162	Spreading of Grass seed	1	Ha	160	160.00	160.00	160.00
B	159	Making of pallets	12	Kg	18.5	18.90	222.00	226.80
C		Dhaman	12	Kg	0	82.00	0.00	984.00
							7413.85	8414.65
Increase Due to Labour Rate 135/- to 166/-								
		9116.28963	Rs.1,001	Rs.10,117				
							Rs.9,116	Rs.10,117
		Contengency 3%						303.51
egk;lx							9116	10421

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4

P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

Road Side Plantation For Watershed Scheme

ifke o" k l /kkj.k

d. l.	BSR ITEM	fooj.k	bdkb	ek=k	nj		jk'kh	
					Je	dy	Je	dy jk'kh
1	2(B)	dBkj feVvh e [kMMk [knkb dk; 0.60 * 0.60 * 0.60 = 0.216 Cum X 200 No = 43.20 Cum	Per Cum	43.20	91	91	3931.2	3931.2
2	2(B)	dBkj feVvh e fjx [knkb dk;	Per Cum	118.69	91	91	10800.79	10800.79
3		xMMk e Hkju gr ckgj l ihyh feVvh d; dj ifjogu e; xMMk e Hkjb vklru 20 ifr'kr xMMk e 91+41.70=132.70 cum	Per Cum	8.64	91	132.7	786.24	1146.528
4	SP	ik/kk [kjhn ou foHkx dh uljh l nk o" k dk ik/kk	ifr ik/kk	220	0	8	0.00	1760.00
5		ik/k ifjogu 20 fdeh- l vf/kd njh l	ifr ik/kk	220	196	2654	43.12	583.88
6	144	[kn g, xMMk dk dhVuk'kd nok l mipkjh djuk A	ifr ik/kk	200	0.55	0.55	110.00	110.00
7		dhVuk'kd nok [kjhn dk;	ifr ik/kk	200	0.5	1	100.00	200.00
8	147	ik/kk dk jki.k	ifr ik/kk	200	3.6	3.6	720.00	720.00
9	151(A)	ty l j{k.k gr Fkkoyk cukuk 50 leh- v/n0; k l eA	ifr Fkkoyk	200	2.4	2.4	480.00	480.00
10	148	ik/kk dk ikuh fiykuk 20 yhVj ifr ik/kk lkr ckjA 200X7=1400 No	ifr ik/kk ifr lkr ckj	1400	1.85	1.85	2590.00	2590.00
11	SP	ikuh [kjhn e; ifjogu 200X7X20=28000 Lit.	ifr Vdj / 4000 lit	7	0	450	0.00	3150.00
12	150	o"kk fjr e ik/kk dh nk ckj funkb xMkb djuk (2*200=400 No)	ifr ik/kk	400	1.2	1.2	480.00	480.00
13		Fkkj Qflx dk; fjx d vUnj	Rmt	1507	24	31	36168.00	46717.00
14	154	ik/k d pkjk vkj rjQ 2 fe- ifjf/k dVhyh >kfM;k dh ckM yxkuk e; >kfM;k dk LFkkuh; Lrj l dkVuk dkVdj ik/k ykdj pkjk rjQ yxkuk A	ifr ik/kk	200	8.2	8.2	1640.00	1640.00
		dy jkf'k					57849.35	74309.40

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4

P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

Road Side Plantation For Watershed Scheme

f}rh; o"k l/kk.j.k

d. l.		fooj.k	bdkb	ek=k	nj		j k'kh	
					Je	dy	Je	dy jk'kh
12		f}rh; o"k iuh jki.k gr 20% jkf'k iFke o"k d ;kx dh					8618.46	11188.42
13		ik/kk dh ifux djuk A	ifr ik/kk	200	1.53	1.53	306.00	306.00
14	150	o"kk fjr e ik/kk dh nk ckj funkb xMkb djuk (2*200=400 No)	ifr ik/kk	400	1.2	1.2	480.00	480.00
15	148	ik/kk dk ikuh fiykuk 20 yhVj ifr ik/kk lkr ckjA 200X7=1400 No	ifr ik/kk ifr lkr ckj	1400	1.85	1.85	2590.00	2590.00
16		ikuh [kjhn e; ifjogu 200X7X20=28000 Lit.	ifr Vdj / 4000 lit	7	0	450	0.00	3150.00
		dy jk'k					11994.46	17714.42

rrh; o"k l/kk.j.k

d. l.		fooj.k	bdkb	ek=k	nj		j k'kh	
					Je	dy	Je	dy jk'kh
17		ik/kk dh ifux djuk A	ifr ik/kk	200	1.53	1.53	306.00	306.00
18	150	o"kk fjr e ik/kk dh nk ckj funkb xMkb djuk (2*200=400 No)	ifr ik/kk	400	1.2	1.2	480.00	480.00
19	148	ik/kk dk ikuh fiykuk 20 yhVj ifr ik/kk lkr ckjA 200X7=1400 No	ifr ik/kk ifr lkr ckj	1400	1.85	1.85	2590.00	2590.00
20		ikuh [kjhn e; ifjogu 200X7X20=28000 Lit.	ifr Vdj / 4000 lit	7	0	450	0.00	3150.00
							3376.00	6526.00
		egk;kx					73219.81	98549.81
Increase Due to Labour Rate 135/- to 166/-								
		90033.25277	Rs.25,330	Rs.115,363				
							Rs.90,033	Rs.115,363
		Contengency 3%						3460.90
		egk;kx					90033	118824

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4

P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

AREA IN HACT. 0.40 tyxg.k {k= e [kjQ dh Qly in'ku

d- l-	Qly dk uke	dk'rdkjk dh l [;k
1	eDdk	125
	mMn	70
	ex	53
	fry	141
	Xokj	28
TOTAL		417

AREA IN HACT. 0.40 tyxg.k {k= e jch dh Qly in'ku

d- l-	Qly dk uke	dk'rdkjk dh l [;k
1	xg	50
	puk	45
	l jlk	102
TOTAL		197

AREA IN HACT. 0.40 tyxg.k {k= e [kjhQ dh Qly in'ku

d- l-	xke ipk;r	xko dk uke	Qly dk uke	nj	2011-12		2012-13		2013-14		2014-15		2015-16		2016-17		TOTAL	
					d"kd dh l [;k	jkf'k	d"kd dh l [;k	jkf'k	d"kd dh l [;k	jkf'k	d"kd dh l [;k	jkf'k	d"kd dh l [;k	jkf'k	d"kd dh l [;k	jkf'k	d"kd dh l [;k	jkf'k
1	vkeyh	vkeyh	eDdk	2116					0	0	3	6348	3	6348	2	4232	8	0.169
			mMn	2751					1	2751	2	5502	0	0	0	0	3	0.083
			ex	2695					0	0	2	5390	0	0	0	0	2	0.054
			fry	1099					2	2198	3	3297	3	3297	2	2198	10	0.110
			Xokj	1879						0		0	0	0	0		0	0
TOTAL									3	4949	10	20537	6	9645	4	6430	23	0.416
2	phj [kMk	phj [kMk	eDdk	2116					3	6348	4	8464	6	12696	3	6348	16	0.339
			mMn	2751					2	5502	2	5502	3	8253	3	8253	10	0.275
			ex	2695					0	0	3	8085	0	0	2	5390	5	0.135
			fry	1099					3	3297	5	5495	2	2198	2	2198	12	0.132
			Xokj	1879					2	3758	2	3758	0	0	0	0	4	0.075
TOTAL									10	18905	16	31304	11	23147	10	22189	47	0.955
3	<kI j	ckxi jk	eDdk	2116					3	6348	3	6348	4	8464	2	4232	12	0.254
			mMn	2751					2	5502	2	5502	3	8253		0	7	0.193
			ex	2695					2	5390	0	0	3	8085	0	0	5	0.135
			fry	1099					0	0	2	2198	0	0	3	3297	5	0.055
			Xokj	1879						0	0	0	2	3758	0	0	2	0.038
4		<kI j	eDdk	2116					2	4232	4	8464	4	8464	5	10580	15	0.317
			mMn	2751					3	8253	2	5502	3	8253	3	8253	11	0.303
			ex	2695					0	0	3	8085	4	10780	3	8085	10	0.270
			fry	1099					3	3297	5	5495	6	6594	9	9891	23	0.253
			Xokj	1879					0	0	0	0	2	3758	2	3758	4	0.075
5		xBhyk	eDdk	2116					3	6348	0	0	3	6348	3	6348	9	0.190
			mMn	2751					0	0	2	5502	3	8253	3	8253	8	0.220
			ex	2695					0	0	3	8085	0	0	0	0	3	0.081
			fry	1099					3	3297	4	4396	4	4396	4	4396	15	0.165
			Xokj	1879					0	0	2	3758	0	0	0	0	2	0.038

AREA IN HACT. 0.40 tyxg.k {k= e [kjhQ dh Qly in'ku

d- l-	xke ipk;r	xko dk uke	Qly dk uke	nj	2011-12		2012-13		2013-14		2014-15		2015-16		2016-17		TOTAL	
					d"kd dh l [;k	jkf'k	d"kd dh l [;k	jkf'k	d"kd dh l [;k	jkf'k	d"kd dh l [;k	jkf'k	d"kd dh l [;k	jkf'k	d"kd dh l [;k	jkf'k	d"kd dh l [;k	jkf'k
6	<k l j	xBhyk [kMk	eDdk	2116					3	6348	2	4232	5	10580	0	0	10	0.212
			mMn	2751						0	0	0		0	0	0	0.000	
			ex	2695						0		0	2	5390		0	2	0.054
			fry	1099					2	2198	2	2198	3	3297	2	2198	9	0.099
			Xokj	1879						0	2	3758		0		0	2	0.038
7		lkdfj;k	eDdk	2116					0	0	3	6348	3	6348	2	4232	8	0.169
			mMn	2751					2	5502	2	5502	2	5502	0	0	6	0.165
			ex	2695					0	0	3	8085		0		0	3	0.081
			fry	1099					2	2198	3	3297	4	4396	2	2198	11	0.121
			Xokj	1879						0	2	3758		0		0	2	0.038
8		lr<f<;k	eDdk	2116					2	4232		0		0		0	2	0.042
			mMn	2751						0	3	8253	3	8253		0	6	0.165
			ex	2695					2	5390		0		0	2	5390	4	0.108
			fry	1099					0	0	2	2198	2	2198	2	2198	6	0.066
			Xokj	1879						0		0	2	3758		0	2	0.038
TOTAL									34	68535	56	110964	67	135128	47	83309	204	3.979
9	ukUn l k	teijk	eDdk	2116					2	4232	3	6348	3	6348	2	4232	10	0.212
			mMn	2751					1	2751		0	2	5502		0	3	0.083
			ex	2695					3	8085		0		0		0	3	0.081
			fry	1099					2	2198	4	4396	4	4396	3	3297	13	0.143
			Xokj	1879					0	0	0	0		0		0	0	0.000
10		ukUn l k	eDdk	2116					3	6348	0	0	3	6348	2	4232	8	0.169
			mMn	2751					0	0	3	8253	0	0		0	3	0.083
			ex	2695					3	8085	0	0	2	5390	0	0	5	0.135
			fry	1099						0	5	5495	3	3297		0	8	0.088
			Xokj	1879						0		0	2	3758		0	2	0.038
TOTAL									14	31699	15	24492	19	35039	7	11761	55	1.030

AREA IN HACT. 0.40 tyxg.k {k= e [kjhQ dh Qly in'ku

d- l-	xke ipk;r	xko dk uke	Qly dk uke	nj	2011-12		2012-13		2013-14		2014-15		2015-16		2016-17		TOTAL	
					d"kd dh l [;k	jkf'k	d"kd dh l [;k	jkf'k	d"kd dh l [;k	jkf'k	d"kd dh l [;k	jkf'k	d"kd dh l [;k	jkf'k	d"kd dh l [;k	jkf'k	d"kd dh l [;k	jkf'k
11	f'koj rh	dkykBVk	eDdk	2116					3	6348	3	6348	3	6348	2	4232	11	0.233
			mMn	2751					1	2751	1	2751	2	5502		0	4	0.110
			ex	2695						0	2	5390	1	2695		0	3	0.081
			fry	1099					2	2198	0	0	2	2198		0	4	0.044
			Xokj	1879						0	2	3758		0	2	3758	4	0.075
12		lY ;koMh	eDdk	2116					2	4232	3	6348	3	6348	2	4232	10	0.212
			mMn	2751						0	3	8253		0	2	5502	5	0.138
			ex	2695					0	0	0	0	3	8085		0	3	0.081
			fry	1099					2	2198	3	3297	2	2198	2	2198	9	0.099
			Xokj	1879						0	0	0		0		0	0	0.000
13		f'koj rh	eDdk	2116					2	4232	2	4232	2	4232		0	6	0.127
			mMn	2751						0	2	5502		0		0	2	0.055
			ex	2695					2	5390		0	3	8085		0	5	0.135
			fry	1099					2	2198	4	4396	4	4396	2	2198	12	0.132
			Xokj	1879						0	2	3758		0		0	2	0.038
TOTAL									16	29547	27	54033	25	50087	12	22120	80	1.558
14	mEEnijk	ljrf l g th dk [kMk	eDdk	2116					0	0	0	0	0	0		0	0	0.000
			mMn	2751						0	0	0	2	5502		0	2	0.055
			ex	2695					0	0	0	0		0	0	0	0	0.000
			fry	1099					2	2198		0	2	2198		0	4	0.044
			Xokj	1879					2	3758	0	0		0	0	0	2	0.038
TOTAL									4	5956	0	0	4	7700	0	0	8	0.137

81 159591 124 241330 132 260746 80 145809 417 8.075

AREA IN HACT. 0.40 tyxg.k {k= e ich dh Qly in'ku

d- l-	xke ipk;r	xko dk uke	Qly dk uke	nj	2011-12		2012-13		2013-14		2014-15		2015-16		2016-17		TOTAL	
					d''kd dh l [;k	jkf'k	d''kd dh l [;k	jkf'k	d''kd dh l [;k	jkf'k	d''kd dh l [;k	jkf'k	d''kd dh l [;k	jkf'k	d''kd dh l [;k	jkf'k	d''kd dh l [;k	jkf'k
1	vkeyh	vkeyh	xg	2720					3	8160		0		0	0	0	3	0.082
			puk	3083					0	0	2	6166	2	6166	0	0	4	0.123
			l j l k	1894					0	0	3	5682	2	3788	2	3788	7	0.133
TOTAL									3	8160	5	11848	4	9954	2	3788	14	0.338
2	phj [kMk	phj [kMk	xg	2720					2	5440	2	5440	2	5440	0	0	6	0.163
			puk	3083					0	0	3	9249	3	9249	2	6166	8	0.247
			l j l k	1894					3	5682	4	7576	4	7576	2	3788	13	0.246
TOTAL									5	11122	9	22265	9	22265	4	9954	27	0.656
3	<k l j	ckxijk	xg	2720					2	5440	0	0	2	5440	0	0	4	0.109
			puk	3083					0	0	2	6166	3	9249	0	0	5	0.154
			l j l k	1894					0	0	3	5682	3	5682	3	5682	9	0.170
4	<k l j	<k l j	xg	2720					3	8160	4	10880	4	10880	4	10880	15	0.408
			puk	3083					3	9249	0	0	0	0		0	3	0.092
			l j l k	1894					3	5682	7	13258	4	7576	2	3788	16	0.303
5	<k l j	xBhyk	xg	2720					0	0	2	5440	2	5440		0	4	0.109
			puk	3083					0	0	3	9249	3	9249		0	6	0.185
			l j l k	1894					3	5682	4	7576	4	7576	2	3788	13	0.246
6	<k l j	xBhyk [kMk	xg	2720						0	2	5440		0		0	2	0.054
			puk	3083					0	0	0	0	2	6166		0	2	0.062
			l j l k	1894					0	0	2	3788	0	0	2	3788	4	0.076
7	<k l j	lkdfj;k	xg	2720					0	0		0	0	0		0	0	0.000
			puk	3083					0	0	0	0	2	6166		0	2	0.062
			l j l k	1894					2	3788	2	3788	2	3788		0	6	0.114
8	<k l j	lr<f<;k	xg	2720					0	0		0		0		0	0	0.000
			puk	3083					0	0	1	3083	2	6166		0	3	0.092
			l j l k	1894					1	1894	1	1894	0	0	1	1894	3	0.057
TOTAL									17	39895	33	76244	33	83378	14	29820	97	2.293

AREA IN HACT. 0.40 tyxg.k {k= e ich dh Qly in'ku

d-l-	xke ipk;r	xko dk uke	Qly dk uke	nj	2011-12		2012-13		2013-14		2014-15		2015-16		2016-17		TOTAL	
					d''kd dh l [;k	jkf'k	d''kd dh l [;k	jkf'k	d''kd dh l [;k	jkf'k	d''kd dh l [;k	jkf'k	d''kd dh l [;k	jkf'k	d''kd dh l [;k	jkf'k	d''kd dh l [;k	jkf'k
9	ukUnlk	teijk	xg	2720					0	0		0	3	8160		0	3	0.082
			puk	3083					0	0	0	0	0	0	1	3083	1	0.031
			ljlk	1894					0	0	2	3788	0	0	2	3788	4	0.076
10	ukUnlk	ukUnlk	xg	2720					0	0		0		0	1	2720	1	0.027
			puk	3083					0	0	1	3083	1	3083		0	2	0.062
			ljlk	1894					0	0	1	1894	0	0	3	5682	4	0.076
TOTAL									0	0	4	8765	4	11243	7	15273	15	0.353
11	f'kojrh	dkykbV	xg	2720					3	8160		0		0		0	3	0.082
			puk	3083					0	0	2	6166	1	3083		0	3	0.092
			ljlk	1894					4	7576	0	0	1	1894		0	5	0.095
12	f'kojrh	lY;koMh	xg	2720					0	2	5440	2	5440	2	5440	6	0.163	
			puk	3083					0	0	1	3083	0	0		0	1	0.031
			ljlk	1894					6	11364	2	3788	0	0	1	1894	9	0.170
13	f'kojrh	f'kojrh	xg	2720					1	2720		0	0	0	2	5440	3	0.082
			puk	3083					3	9249	0	0	0	0	2	6166	5	0.154
			ljlk	1894					6	11364	2	3788	0	0	1	1894	9	0.170
TOTAL									23	50433	9	22265	4	10417	8	20834	44	1.039
14	mEEnijk	ljrflg th dk [kMk	xg	2720					0	0		0		0		0	0	0
			puk	3083					0	0	0	0	0	0	0	0	0	0
			ljlk	1894					0	0	0	0	0	0	0	0	0	0
TOTAL									0	0	0	0	0	0	0	0	0	0.00
48 109610 60 141387 54 137257 35 79669 197 4.679																		

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)
ty xg.k {k= e Qly in'ku

uke Qly%&xg								
fdLe%&jkt-3077@jkt-4037@,p-vkb153								
d-l-	xfrfof/k	idkj	;fuV	ifr gDV;j		in'ku gr ¼0.40g-½		fooj.k
				ek=k	jkf'k	ek=k	jkf'k	
1	cht		k.g	125	2500.00	50	1000.00	
2	chtkipkj							
3	¼v½ , t¼VkcDVj@jkb tkfc;k	600 xke ¼3 idV½	gm.	600	45.00	240	18.00	
4	¼c½ ih-, l-ch-	600 xke ¼3 idV½	gm.	600	45.00	240	18.00	
5	¼ l ½ Fkkbjke@ckfoLVhu@eldk to				150.00		60.00	
6	mojd				300.00		120.00	
7	(I) Mh, ih		k.g	60	1092.60	24	437.04	
8	(II) ;fj;k		k.g	60	318.60	24	127.44	
9	(III) ftlle		k.g	250	250.00	100	100.00	
10	l{e ik"kd rRo		k.g	250	1000.00	100	400.00	
11	[kjirokjuk'kh				600.00		240.00	
12	ik/k l j{k.k				500.00		200.00	
TOTAL					6801		2720	

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)
ty xg.k {k= e Qly in'ku

uke Qly&puk								
fdLe%&irki puk@RSG-888								
d-l-	xfrfof/k	idkj	;fuV	ifr gDV;j		in'ku gr %0.40g-½		fooj.k
				ek=k	jkf'k	ek=k	jkf'k	
1	ch t		k.g	80	3200.00	32	1280.00	
2	ch t k i pkj							
3	¼v½ , t kVkcDVj@jkb tkfc;k	600 xke ¼3 idV½	gm.	600	45.00	240	18.00	
4	¼C½ ih-, l-ch-	600 xke ¼3 idV½	gm.	600	45.00	240	18.00	
5	¼ l ½ Fkkbjke@ckfoLVhu@eUdk t o	ckfoLVhu 40 xke	gm.	40	30.00	16	12.00	
6	mojd				250.00		100.00	
7	(I) Mh, ih		k.g	54.25	987.89	22	395.16	
8	(II) ;fj;k		k.g					
9	(III) ftlle		k.g	250	250.00	100	100.00	
10	l{e ik"kd rRo		k.g	250	1000.00	100	400.00	
11	[kji rokjuk'kh				400.00		160.00	
12	ik/k l j{k.k				1500.00		600.00	
TOTAL					7708		3083	

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4

P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

ty xg.k {k= e Qly in'ku

uke Qly&ljl k								
fdLe&ck;k 902@o l u/kjk								
d-l-	xfrfof/k	idkj	;fuV	ifr gDV;j		in'ku gr 0.40g-½		fooj.k
				ek=k	j kf'k	ek=k	j kf'k	
1	cht		k.g	4	116.00	2	46.40	
2	cht kipkj							
3	½v½, tkVkcDVj@jkb tkfc;k	600 xke ½3 idV½	gm.	600	45.00	240	18.00	
4	½c½ ih-, l-ch-	600 xke ½3 idV½	gm.	600	45.00	240	18.00	
5	½ l ½ Fkkbjke@ckfoLVhu@eUdk to	eUdk to 10 xke	gm.	10	10.00	4	4.00	
6	mojd							
7	(I) Mh, ih		k.g	33	1092.60	13	437.04	
8	(II) ;fj;k		k.g	52	276.12	21	110.45	
9	(III) ftlle		k.g	250	250.00	100	100.00	
10	l{e ik"kd rRo		k.g	250	1000.00	100	400.00	
11	[kj irokjuk'kh				400.00		160.00	
12	ik/k l j{k.k				1500.00		600.00	
TOTAL					4735		1894	

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4

P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

ty xg.k {k= e Qly in'ku

uke Qly&eDdk								
fdLe&irki Idj eDdk 1@uotkr								
d-l-	xfrfof/k	idkj	;fuV	ifr gDV;j		in'ku gr ¼0.40g-½		fooj.k
				ek=k	jkf'k	ek=k	jkf'k	
1	cht		k.g	25	106.50	10	42.60	
2	chtkipkj							
3	¼v½ , tkVkcDVj@jkbtkfc;k	600 xke ¼3 idV½	gm.	600	45.00	240	18.00	
4	¼C½ ih-, l-ch-	600 xke ¼3 idV½	gm.	600	46.00	240	18.40	
5	¼ l ¼ Fkkbjke@ckfoLVhu@eUdk to				25.00		10.00	
6	mojd							
7	(I) Mh, ih				1602.48		640.99	
8	(II) ;fj;k				1214.93		485.97	
9	(III) ftlle		k.g	250	250.00	100	100.00	
10	l{e ik"kd rRo		k.g	250	1000.00	100	400.00	
11	[kjirokjuk"kh				500.00		200.00	
12	ik/k l j{k.k				500.00		200.00	
TOTAL					5290		2116	

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4

P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

ty xg.k {k= e Qly in'ku

uke Qly&mMn								
fdLe%&d".kk@Vh -9								
d-I-	xfrfof/k	idkj	;fuV	ifr gDV;j		in'ku gr %0.40g-½		fooj.k
				ek=k	jkf'k	ek=k	jkf'k	
1	ch t		k.g		1620.00	0	648.00	
2	ch t mipkj							
3	Fkbbjke		gm.	600	45.00	240	18.00	
4	jkbt kfc;e dYpj	rhu idV i;klr	gm.	600	46.00	240	18.40	
5	ih-, l-ch-	rhu idV i;klr			15.00		6.00	
6	mojd							
7	u= t u				1602.50		641.00	
8	QkLQkj l						0.00	
9	Mh-, -ih-		k.g	250	250.00	100	100.00	
10	;fj;k		k.g	250	1000.00	100	400.00	
11	l{e rRo				1000.00		400.00	
12	[kj irokj fu;=.k	QyDykfju (A.I.)			1300.00		520.00	
TOTAL					6879		2751	

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4

P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

ty xg.k {k= e Qly in'ku

uke Qly&ex								
fdLe&i l k c'kk[kh /Rmg-902								
d-l-	xfrfof/k	idkj	;fuV	ifr gDV;j		in'ku gr %0.40g-½		fooj.k
				ek=k	jkf'k	ek=k	jkf'k	
1	cht		k.g		1480.00	0	592.00	
2	chtkipkj							
3	%v½, tkVkcDVj@jkbtkfc;k	600 xke %3 idV½	gm.	600	45.00	240	18.00	
4	%c½ ih-, l-ch-	600 xke %3 idV½	gm.	600	46.00	240	18.40	
5	% l ½ Fkkbjke@ckfoLVhu@eUdkto				15.00		6.00	
6	mojd							
7	(I) Mh, ih				1602.50		641.00	
8	(II) ;fj;k						0.00	
9	(III) ftlle		k.g	250	250.00	100	100.00	
10	l{e ik"kd rRo		k.g	250	1000.00	100	400.00	
11	[kji rokjuk'kh				1000.00		400.00	
12	ik/k l j{k.k				1300.00		520.00	
TOTAL					6739		2695	

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4

P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

ty xg.k {k= e Qly in'ku

uke Qly&fry

fdLe&RT.-46/TC-25

d-l-	xfrfof/k	idkj	;fuV	nj	ifr gDV;j		in'ku gr 40.40g-½		fooj.k
					ek=k	jkf'k	ek=k	jkf'k	
1	Hkfe mipkj	feFkkby ijkfFk;ku 2% p.k	k.g	17/-kg.	25	425	10.0	170	
		ftlle	k.g		250	500	100.0	200	
2	cht		k.g	137/-kg.	2	274	0.8	110	
3	cht mipkj								
(I)		Fkbbjke	gm.	23	3	69	1.2	27.6	
(II)	thok.k vxHkkjh jkx gr	LMIVk l kbfDyu 10lit. lkkuh e	gm.	40/-idV	2	80	0.8	32	
(III)									
(B.)	dYpj								
(I)	, tkVkoDVj	rhu idV i;klr		12/Each		36		14.4	
(II)	PSM.	rhu idV i;klr		12/Each		36		14.4	
(III)									
3	mojd								
(I)	u=tu		k.g		20		8.0		
(II)	QkLQkj l		k.g		25		10.0		
(III)	Mh-, -ih-			10/kg.	55	550	22.0	220	
(IV)	;fj;k			6/kg.	113	678.48	45.2	271.392	
4	lfe rRo	ftlle dk i;kx							
5	[kjirokj fu;=.k	,ykDykj (A.I.)	k.g		1.5	100	0.6	40	
TOTAL						2748		1099	

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4

P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

ty xg.k {k= e Qly in'ku

uke Qly%&Xokj								
fdLe%&nxkijk IQn@iIk uocgkj								
d-I-	xfrfof/k	idkj	;fuV	ifr gDV;j		in'ku gr $\frac{1}{4}0.40g^{-\frac{1}{2}}$		fooj.k
				ek=k	jkf'k	ek=k	jkf'k	
1	cht		k.g	15	600	6.0	240	
2	cht mipkj							
3	vxekjh jkx	250 ppm. ,xhekbfl u			563		225	
4	Fkkbjke		gm.	3	69	1.2	26.6	
5	jkbt kfc;e dYpj	rhu idV i;klr			36		14.4	
6	ih-, l-ch-	rhu idV i;klr			36		14.4	
7	mojd							
8	QkLQkj l		k.g	40		16.0		
9	Mh-, -ih-			88	880	35.2	352	
10	;fj;k			190	1140	76.0	456	
11	l{e rRo	ftd lYQV	k.g	25	1250	10.0	500	
12	[kji rokj fu;=.k	2-4,D-,LVj l kYV	gm.	500	125	200.0	50	
TOTAL					4699		1879	

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)
ty xg.k {k= e Qly in'ku

uke Qly%&Tokj								
fdLe%&jk tLFkku pjh& 1,2@CSH&5,6								
d-l-	xfrfof/k	idkj	;fuV	ifr gDV;j		in'ku gr %0.40g-%		fooj.k
				ek=k	jkf'k	ek=k	jkf'k	
1	ch t		k.g	10	400.00	4	160.00	
2	ch tkipkj							
3	%v% , tKVkcDVj@jkb t kfc;k	600 xke %3 idV%	gm.	600	45.00	240	18.00	
4	%C% ih-, l-ch-	600 xke %3 idV%	gm.	600	46.00	240	18.40	
5	% l % Fkkbjke@ckfoLVhu@eUdk to				10.00		4.00	
6	mojd							
7	(I) Mh, ih				1602.48		640.99	
8	(II) ;fj;k				759.33		303.73	
9	(III) ftlle		k.g	250	250.00	100	100.00	
10	l{e ik"kd rRo		k.g	250	1000.00	100	400.00	
11	[kjirokjuk'kh				500.00		200.00	
12	ik/k l j{k.k				500.00		200.00	
TOTAL					5113		2045	

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

MODEL ESTIMATE OF ALOVERA PLANTATION							
District - Bhilwara, State - Rajasthan, India							
	Name of work:-	Aloevera plantation					
	No of plants:-	150			Spacing		0.6
				Rate		Amount	
S.no.	Item	Quantity	Unit	Lc	Total	Lc	Total
	Aloevera plantation						
1	Cost of Aloevera Plant Including Transporting, Loading & unloading. (3.75+0.94+0.297+0.3715=5.36)	150	Per Plant	0	5.36	0.00	804.00
2	Plantation work of plant 150X0.6=90Rmt	90	Per Rmt	9.97	9.97	897.30	897.30
						897.30	1701.30
Increase Due to Labour Rate 135/- to 166/-							
	1103.35	Rs.804	Rs.1,907				
	Total					Rs.1,103	Rs.1,907
	Add. 0.03% Contengency charge						57
	Total Amount						1965

Labour Am 1103
Meterial Am 861
Total Am 1965 Per Ha

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

MODEL ESTIMATE OF AGRO FORESTY								
		Name of work:-	Karonda fencing					
		No of plants:-	150		Spacing		2 m	
					Rate		Amount	
S.no	BSR	Item	Quantity	Unit	Lc	Total	Lc	Total
Karonda Fencing								
1	142	E/w Excavation for pit in hard soil in top of bund + 10% extra for different position	150	No	7.48	7.48	1122.00	1122.00
2		Cost of Karonda Plant Including Transporting,Loading & unloading. (6+2=8)	150	Per Plant	0	8.00	0.00	1200.00
3	153	Plantation work of plant	150	Per Plant	7.4	7.40	1110.00	1110.00
4		Watering Charges (three year) 3x5=15Nox150=2250 Nox15=33750						
A	SP	Cost of water including Transporting	33750	4000 Per Litre	0	450.00	0.00	3796.88
B	148	Watering charges (150X3X5=2250)	2250	Per Plant	1.85	1.85	4162.50	4162.50
5		Treatment of pit						
A		Cost of FYM	150	Per Plant	0	2.00	0.00	300.00
B		Cost of Clorophyropas 2ml per	150	Per Plant	0	0.50	0.00	75.00
C		Cost of Clorophyropas 2ml per plant	0.30	Per Litre	0	350.00	0.00	105.00
D		Labour charge for treatment (0.55+0.27=0.82)	150	Per Plant	0.82	0.82	123.00	123.00
6		Weeding & Hoeing of plant in three year 2x3=6No x150 =900	900	Per Plant	1.2	1.20	1080.00	1080.00
		Total					7597.50	13074.38
7		Gap filling 20%					1519.50	2614.88
		Total					9117.00	15689.25
Aloevera plantation								
8		Cost of Aloevera Plant Including Transporting,Loading & unloading.	150	Per Plant	0	5.36	0.00	804.00
9	180	Plantation work of plant (1 m X 1m)	150	Per Rmt	9.97	9.97	1495.50	1495.50
		Total					1495.50	2299.50
		Grand Total					10612.5	17988.75
Increase Due to Labour Rate 135/- to 166/-								
		13049.44	Rs.7,376	Rs.20,426				
		Say Rs					Rs.13,049	Rs.20,426
		Add. 0.03% Contengency charge						613
		Total Amount						21038

Labour Am 13049
Meterial Am 7989
Total Am 21038 Per Ha

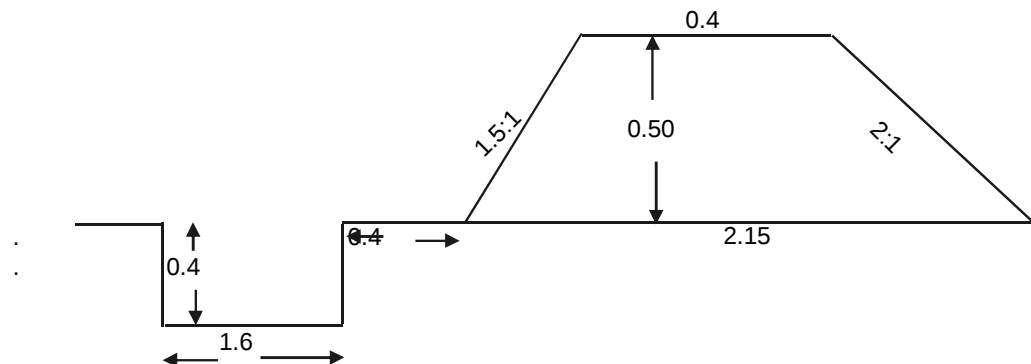
SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

MODEL ESTIMATE OF ARABLE LAND (SEMI PUCCA BUND) MGNREGA							
A	Cross section of bund-	0.64	Sqm		Top Width		0.4
B	Length -	100	Rmt		Bottom Width		2.15
					Height		0.5
S. No.	Item	Quantity	Unit	Labour Rate	Total Rate	Labour Amount	Total Amount
1	Dug belling work up to 5-7 cm depth 4x100=400m	400	Rm	1.00	1.00	400.00	400.00
2	Earth work in hard soil for construction of bund including ramming compaction and dressing up to the lead of 50m and lift 1.5 m 0.64x100=64 cum	64	Cum	85.00	85.00	5440.00	5440.00
3	Sowing of grass seed pallets on bunds inThree rows.	300	Rm	0.59	0.59	177.00	177.00
4	Dhaman	1	Kg	0.00	82.00	0.00	82.00
	Total					6017.00	6099.00

Increase Due to Labour Rate 135/- to 166/-	7398.68	7499.51
Je Hkkx e 30% VklD dh deh d dkj.k vfrfjDr tkMuk	3170.34	3170.34
;kx	10569	10670
tkM 3% ikuh okyk vk;k	317.07	317.07
;kx	10886	10986.92
tkM 2% dfUVu t l h		219.74
dy ;kx		11207
SAY		11300
ykr Je en e		10890
ykr lexh en e		410
dy ;kx		11300

Avarage length per Rm/Ha = 109 Rm

Per Rmt 113
Per Ha Cost 12317.0
Say am 12317



**SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)**

**dk;ky; ipk;r lfefr] lgkMk] ftyk HkhyokMk
fuek.k dk;l gr foLr'r ykxr&vueku**

1-	dk; dk Ukke& Qke ik.M fuek.k dk; xke& xke ipk;r&												
	in dh pkMkb 12 eh- & Åij dh pkMkb 20 eh- & xgjkb 2 ehVj Location-												
2-	;ktuk dk uke& NREGS												
Ø-I-	dk; dk fooj.k	l0	in dk {k=Qy	Åij dk {k=Qy	vkl r {k=Qy	xgjkb	ek=k	bdbb	nj		jkf'k		
	Je								dy	Je	;kx		
1	uho] [kkb] ijuky e 1-5 xgjkb rd feêh dh [knkb djuk] ry dk dVuk] ikuh Mkyuk] cxy dk lokjuk] [knh feêh dk ckgj fudkyuk] uho Hkju d ckn [kkyh LFkkuk dk iuh feêh l Hkjuk rFkk cph gb feêh dk 50 ehVj dh njh rd fuLrkj.k djukA												
A-	l [r] fpduh] ddj feêh e 80 ifr- vkl r	1	144	400	272	1.6	435.2	?ku eh-	91.00	91.00	39603.20	39603.20	
B-	fo?kfVr pVVku @eje 20 ifr- vkl r	1	144	400	272	0.4	108.8	?ku eh-	134.00	134.00	14579.20	14579.20	
2	vfrfjDr fy¶V dk dk;	1	144	196	170	0.5	85.00	l [;k	11.00	11.00	935.00	935.00	
3	vfrfjDr yhM dk dk;	1	144	400	272	1	272	l [;k	33.80	33.80	9193.60	9193.60	
Total		Total								64311.00		64311.00	

Increase Due to Labour Rate 135/- to 166/-

Je Hkx e 30 % VklD dh deh d dkj.k vfrfjDr tkMuk

tKM 3 % ikuh okyk vk;k

tKM 2 % dfUVu t l h

**ykxr Je en e
ykxr llexh en e
dy ;kx**

;kx

;kx

dy ;kx

SAY

79078.71	79078.71
33885.23	33885.23
112964	112964
3388.92	3388.92
116353	116352.86
	2327.06
	118680
	118700
	116350
	2350
	118700

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)
MODEL ESTIMATE OF HORTICULTURE PLANTATION

Aawla Plant

Total plant 400
 Thor fencing 100
 Thor Danda 700
 No C/C 5mx5m
 Rmt/Ha
 per ha MNREGS

S. No.	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum	202.50	cum	73.80	81.00	14944.50	16402.50
2	Excavation of earth work for thor fencing pit size 0.15x0.15m	2.25	cum	73.80	81.00	166.05	182.25
3	Dag balling work up to 5 to 7 cm depth	100	Rmt.	0.88	0.88	88.00	88.00
4	Supply and cutting of 80 cm thor sticks. 7 Danda /-Rmt	700.00	Per 100 stick	65.50	165.00	458.50	1155.00
5	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	700.00	Per 100 stick	25.30	96.5	177.10	675.50
6	Rehandling work of thor sticks up to 200 to 500mt distance.	700.00	Per 100 stick	65.50	67.4	458.50	471.80
7	Planting work of Thor sticks in 15 cm distance.	100.00	Rmt.	6.93	6.93	693.00	693.00
8	Treatment of pits						
a	Through chemicals	400	Per plant	0.49	0.49	196.00	196.00
b	Through mannure	400	Per plant	0.24	0.24	96.00	96.00
9	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc	400	Per plant	6.50	6.50	2600.00	2600.00
10	Cost of Plant including transportation (14+2)=16	400	Per plant	0.00	21.00	0.00	8400.00
11	Making of thanwala,of 50 cm rarious	400	Per plant	2.10	2.10	840.00	840.00
12	Weeding & hoeing three times in the year (400x3x3=1404)	3600	Per plant	1.10	1.10	3960.00	3960.00
13	Cost of Mannure including transportation	400	Per Kg	0.50	2.00	200.00	800.00
14	Cost of Chemical including transportation	400	Per plant	0.50	1.00	200.00	400.00
	Total					25077.65	36960.05
15	Gap filling 20%					5015.53	7392.01
	Total					30093.18	44352.06

Increase Due to Labour Rate 135/- to 166/-

37003.47 54536.61

Je Hkkx e 30% VklD dh deh d dkj.k vfrfjDr tkMuk

15855.99 15855.99

;kx

52859 70393

tkM 3% ikuh okyk vk;k

1585.78 1585.78

;kx

54445 71978.38

tkM 2% dfUVu t l h

1439.57

dy ;kx

73418

SAY

73500

yxR Je en e

54450

yxR llexh en e

19050

dy ;kx

73500

Guava Plant

		Total plant Thor fencing Thor Danda	277 100 700		No Rmt/Ha per ha	C/C	6mx6m MNREGS
S. No.	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum	140.23	cum	73.80	81.00	10349.07	11358.73
2	Excavation of earth work for thor fencing pit size 0.15x0.15m	2.25	cum	73.80	81.00	166.05	182.25
3	Dag balling work up to 5 to 7 cm depth	100	Rmt.	0.88	0.88	88.00	88.00
4	Supply and cutting of 80 cm thor sticks. (7 Danda /-Rmt)	700.00	Per 100 stick	65.50	165.00	458.50	1155.00
5	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	700.00	Per 100 stick	25.30	96.50	177.10	675.50
6	Rehandling work of thor sticks up to 200 to 500mt distance.	700.00	Per 100 stick	65.50	67.4	458.50	471.80
7	Planting work of Thor sticks in 15 cm distance.	100.00	Rmt.	6.93	6.93	693.00	693.00
8	Treatment of pits					0.00	
a	Through chemicals	277	Per plant	0.49	0.49	135.73	135.73
b	Through mannure	277	Per plant	0.24	0.24	66.48	66.48
9	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc	277	Per plant	6.50	6.50	1800.50	1800.50
10	Cost of Plant including transportation (16+2=18)	277	Per plant	0.00	18.00	0.00	4986.00
11	Making of thanwala,of 50 cm rarious	277	Per plant	2.10	2.10	581.70	581.70
12	Weeding & hoeing three times in the year (277x3x3=2493)	2493	Per plant	1.10	1.10	2742.30	2742.30
13	Cost of Mannure including transportation	277	Per Kg	0.50	2.00	138.50	554.00
14	Cost of Chemical including transportation	277	Per plant	0.50	1.00	138.50	277.00
	Total					17993.93	25767.99
15	Gap filling 20%					3598.79	5153.60
	Total					21592.71	30921.59

Increase Due to Labour Rate 135/- to 166/-		26551.04	38022.10
Je Hkkx e 30% VklD dh deh d dkj.k vfrfjDr tkMuk		11377.12	11377.12
	;lx	37928	49399
t kM 3% ikuh okyk vk;k		1137.84	1137.84
	;lx	39066	50537.07
t kM 2% dfUVu t lh			1010.74
	dy ;lx		51548
	SAY		51600
	yixr Je en e		39070
	yixr lkexh en e		12530
	dy ;lx		51600

Anar Plant

S. No.	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum	202.50	cum	73.80	81.00	14944.50	16402.50
2	Excavation of earth work for thor fencing pit size 0.15x0.15m	2.25	cum	73.80	81.00	166.05	182.25
3	Dag balling work up to 5 to 7 cm depth	100	Rmt.	0.88	0.88	88.00	88.00
4	Supply and cutting of 80 cm thor sticks. 7 Danda /-Rmt	700.00	Per 100 stick	65.50	165.00	458.50	1155.00
5	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	700.00	Per 100 stick	25.30	96.5	177.10	675.50
6	Rehandling work of thor sticks up to 200 to 500mt distance.	700.00	Per 100 stick	65.50	67.4	458.50	471.80
7	Planting work of Thor sticks in 15 cm distance.	100.00	Rmt.	6.93	6.93	693.00	693.00
8	Treatment of pits					0.00	
a	Through chemicals	400	Per plant	0.49	0.49	196.00	196.00
b	Through mannure	400	Per plant	0.24	0.24	96.00	96.00
9	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc	400	Per plant	6.50	6.50	2600.00	2600.00
10	Cost of Plant including transportation (14+2)=16	400	Per plant	0.00	16.00	0.00	6400.00
11	Making of thanwala,of 50 cm radious	400	Per plant	2.10	2.10	840.00	840.00
12	Weeding & hoeing three times in the year (156x3x3=1404)	3600	Per plant	1.10	1.10	3960.00	3960.00
13	Cost of Mannure including transportation	400	Per Kg	0.50	2.00	200.00	800.00
14	Cost of Chemical including transportation	400	Per plant	0.50	1.00	200.00	400.00
	Total					25077.65	34960.05
15	Gap filling 20%					5015.53	6992.01
	Total					30093.18	41952.06

Increase Due to Labour Rate 135/- to 166/-		37003.47	51585.50
Je Hkkx e 30% Vkl d dh deh d dkj.k vfrfjDr tkMuk		15855.99	15855.99
	;kx	52859	67441
tkM 3% ikuh okyk vk;k		1585.78	1585.78
	;kx	54445	69027.26
tkM 2% dfUVu t l h			1380.55
	dy ;kx		70408
	SAY		70500
	ykr Je en e		54450
	ykr l exh en e		16050
	dy ;kx		70500

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)
MODEL ESTIMATE OF HORTICULTURE PLANTATION

Nimbu Plantation

Total plant 277
 Thor fencing 100
 Thor Danda 700

No
 Rmt/Ha
 per ha

C/C

6mx6m
 MNREGA

S. No.	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum	140.23	cum	73.80	81.00	10349.07	11358.73
2	Excavation of earth work for thor fencing pit size 0.15x0.15m	2.25	cum	73.80	81.00	166.05	182.25
3	Dag balling work up to 5 to 7 cm depth	100	Rmt.	0.88	0.88	88.00	88.00
4	Supply and cutting of 80 cm thor sticks. (7 Danda /-Rmt)	700.00	Per 100 stick	65.50	165.00	458.50	1155.00
5	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	700.00	Per 100 stick	25.30	96.50	177.10	675.50
6	Rehandling work of thor sticks up to 200 to 500mt distance.	700.00	Per 100 stick	65.50	67.40	458.50	471.80
7	Planting work of Thor sticks in 15 cm distance.	100.00	Rmt.	6.93	6.93	693.00	693.00
8	Treatment of pits					0.00	
a	Through chemicals	277	Per plant	0.49	0.49	135.73	135.73
b	Through mannure	277	Per plant	0.24	0.24	66.48	66.48
9	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc	277	Per plant	6.50	6.50	1800.50	1800.50
10	Cost of Plant including transportation (7+2=9)	277	Per plant	0.00	9.00	0.00	2493.00
11	Making of thanwala,of 50 cm radius	277	Per plant	2.10	2.10	581.70	581.70
12	Weeding & hoeing three times in the year (277x3x3=2493)	2493	Per plant	1.10	1.10	2742.30	2742.30
13	Cost of Mannure including transportation	277	Per Kg	0.50	2.00	138.50	554.00
14	Cost of Chemical including transportation	277	Per plant	0.50	1.00	138.50	277.00
	Total					17993.93	23274.99
15	Gap filling 20%					3598.79	4655.00
	Total					21592.71	27929.99

Increase Due to Labour Rate 135/- to 166/-

Je Hkx e 30% VklD dh deh d dkj.k vfrfjDr tkMuk

;lx

tkM 3% ikuh okyk vk;k

;lx

tkM 2% dfVu t lh

dy ;lx

SAY

y\kr Je en e

y\kr l\ext en e

dy ;lx

26551.04

11377.12

37928

1137.84

39066

34343.54

11377.12

45721

1137.84

46858.51

937.17

47796

47800

39070

8730

47800

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)
MODEL ESTIMATE OF HORTICULTURE PLANTATION

Orange Plant

Total plant 277
 Thor fencing 100
 Thor Danda 700

No
 Rmt/Ha
 per ha

C/C
 6mx6m

MNREGA

S. No.	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum	140.2313	cum	73.80	81.00	10349.07	11358.73
2	Excavation of earth work for thor fencing pit size 0.15x0.15m	2.25	cum	73.80	81.00	166.05	182.25
3	Dag balling work up to 5 to 7 cm depth	100	Rmt.	0.88	0.88	88.00	88.00
4	Supply and cutting of 80 cm thor sticks. (7 Danda /-Rmt)	700.00	Per 100 stick	65.50	165.00	458.50	1155.00
5	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	700.00	Per 100 stick	25.30	96.50	177.10	675.50
6	Rehandling work of thor sticks up to 200 to 500mt distance.	700.00	Per 100 stick	65.50	67.40	458.50	471.80
7	Planting work of Thor sticks in 15 cm distance.	100.00	Rmt.	6.93	6.93	693.00	693.00
8	Treatment of pits						
a	Through chemicals	277	Per plant	0.49	0.49	135.73	135.73
b	Through mannure	277	Per plant	0.24	0.24	66.48	66.48
9	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc	277	Per plant	6.50	6.50	1800.50	1800.50
10	Cost of Plant including transportation (20+2=22)	277	Per plant	0.00	22.00	0.00	6094.00
11	Making of thanwala,of 50 cm radius	277	Per plant	2.10	2.10	581.70	581.70
12	Weeding & hoeing three times in the year (156x3x3=1404)	2493	Per plant	1.10	1.10	2742.30	2742.30
13	Cost of Mannure including transportation	277	Per Kg	0.50	2.00	138.50	554.00
14	Cost of Chemical including transportation	277	Per plant	0.50	1.00	138.50	277.00
	Total					17993.93	26875.99
15	Gap filling 20%					3598.79	5375.20
	Total					21592.71	32251.19

Increase Due to Labour Rate 135/- to 166/-	26551.04	39657.02
Je Hkx e 30% VklD dh deh d dkj.k vfrfjDr tkMuk	11377.12	11377.12
;kx	37928	51034
tkM 3% ikuh okyk vk;k	1137.84	1137.84
;kx	39066	52171.98
tkM 2% dfUVu t lh		1043.44
dy ;kx		53215
SAY		53300
ykxr Je en e		39070
ykxr lkexh en e		14230
dy ;kx		53300

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

OPEN LAND CONTOUR TRENCH							
	Name of Work :-		Continious contour trench				
	Jal Grahan Vikash Samiti						
Costing & Quantity Estimation of Contour trench							
Total length of CCT per ha =300 rm/ha					;ktuk & jk-xk-jk-xk;k-		
CX= 0.2025 Cum							
	Total Area in Ha		1				
S. No.	Item	Quantity	Unit	Rate		Amount	
				Labour	Total	Labour	Total
1	Marking of contour line through dumpy level	300	Rmt	0.24	0.27	72.00	81.00
2	Dug belling work for CCT up to 5-7 cm depth (As per BSR2011, P.no. 14, item no. 155a) (2X300=600)	600	Rmt	0.88	0.88	528.00	528.00
	Quantity of E/W (300Rmt X 0.2025=60.75 cum)	60.75	Cum				
3	Excavation of hard soil for CCT as per BSR2011, P.no. 17, item no. 189b) 40%	24.3	Cum	71.80	75.00	1744.74	1822.50
4	Excavation of murram for CCT as per BSR2011, P.no. 17, item no. 189c) 60%	36.45	Cum	79.30	88.00	2890.49	3207.60
5	Sowing of local grass seed on bunds As per BSR2007, P.no. 11, item no. 142) (3X300=900)	900	Rmt	0.52	0.52	468.00	468.00
6	Grass seed					0.00	0.00
A	Spreading of Grass seed	1	Ha	141	141	141.00	141.00
B	Making of pallets	12	Kg	16.3	16.8	195.60	201.60
C	Dhaman	12	Kg	0	82	0.00	984.00
	Total cost for CCT					6039.83	7433.70

Increase Due to Labour Rate 135/- to 166/-

7426.75	Rs.1,394	Rs.8,821	7426.75
Je Hkx e 30 % VklD dh deh d dkj.k vfrfjDr tkMuk			3182.361 3182.36
;kx			10609 12002.98
tkM 3 % ikuh okyk vk;k			318.27 318.27
;kx			10927 12321.26
tkM 2 % dfUVu t l h			246.43
dy ;kx			12567.68
	ykr Je en e		10927
	ykr l kexh en e		1640
	dy ;kx		12568

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4

P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

Road Side Plantation For MGNREGA

īFke o"k l/kkj.k

d- l.	BSR ITEM	fooj.k	bdkb	ek=k	nj		jk"kh	
					Je	dy	Je	dy jk"kh
1	2(B)	dBkj feVVh e [kMMk [knkb dk; 0-60 * 0.60 *0.60=0.216 CumX200 No =43.20 Cum	Per Cum	43.20	83.7	91	3615.84	3931.2
2	2(B)	dBkj feVVh e fjx [knkb dk;	Per Cum	118.69	83.7	91	9934.353	10800.79
3		xMMk e Hkju gr ckj l ihyh feVVh d; dj ifjogu e; xMMk e Hkjb vklru 20 ifr'kr xMMk e 73.8+41.70=115.50 cum	Per Cum	8.64	83.7	115.5	723.168	997.92
4	SP	ik/kk [kjhn ou foHkx dh uljh l nk o"k dk ik/kk	ifr ik/kk	220	0	8	0.00	1760.00
5	139	ik/k ifjogu 20 fdeh- l vf/kd njh l	ifr ik/kk	220	195.8	2654	43.08	583.88
6	144	[kn g, xMMk dk dhVuk"kd nok l mipkjhr djuk A	ifr ik/kk	200	0.5	0.55	100.00	110.00
7		dhVuk"kd nok [kjhn dk;	ifr ik/kk	200	0.5	1	100.00	200.00
8	147	ik/kk dk jki.k	ifr ik/kk	200	3.6	3.6	720.00	720.00
9	151(A)	ty ljk.k gr Fkkoyk cukuk 50 leh- v/n0;kl eA	ifr Fkkoyk	200	2.4	2.4	480.00	480.00
10	148	ik/kk dk ikuh fiykuk 20 yhVj ifr ik/kk lkr ckjA 200X7=1400 No	ifr ik/kk ifr lkr ckj	1400	1.85	1.85	2590.00	2590.00
11	SP	ikuh [kjhn e; ifjogu 200X7X20=28000 Lit.	ifr Vdj / 4000 lit	7	0	450	0.00	3150.00
12	150	o"kk fjr e ik/kk dh nk ckj funkb xMkb djuk (2*200=400 No)	ifr ik/kk	400	1.2	1.2	480.00	480.00
13		Fkkj Qflx dk; fjx d vUnj	Rmt	1507	18	30	27126.00	45210.00
14	154	ik/k d pkjk vkj rjQ 2 fe- ifjf/k dVhyh >kfM;k dh ckM yxkuk e; >kfM;k dk LFkkuh; Lrj l dkVuk - dkVdj ik/k ykdj pkjk rjQ yxkuk A	ifr ik/kk	200	8.2	8.2	1640.00	1640.00
		dy jf"k					47552.44	72653.79

SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4

P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

Road Side Plantation For MGNREGA

f}rh; o"k l/kk.j.k

d. l.	BSR ITEM	fooj.k	bdkb	ek=k	nj		jk'kh	
					Je	dy	Je	dy jk'kh
12		f}rh; o"k iu k jki.k gr 20% jkf'k iFke o"k d ;kx dh					6744.98	10887.02
13		ik/kk dh ifux djuk A	ifr ik/kk	200	1.348	1.35	269.60	270.00
14	150	o"k fjr e ik/kk dh nk ckj funkb xMkb djuk (2*200=400 No)	ifr ik/kk	400	1.2	1.2	480.00	480.00
15	148	ik/kk dk ikuh fiykuk 20 yhVj ifr ik/kk lkr ckjA 200X7=1400 No	ifr ik/kk ifr lkr ckj	1400	1.85	1.85	2590.00	2590.00
16		ikuh [kjhn e; ifjogu 200X7X20=28000 Lit.	ifr Vdj / 4000 lit	7	0	450	0.00	3150.00
		dy jkf'k					10084.58	17377.02

rrh; o"k l/kk.j.k

d. l.	BSR ITEM	fooj.k	bdkb	ek=k	nj		jk'kh	
					Je	dy	Je	dy jk'kh
17		ik/kk dh ifux djuk A	ifr ik/kk	200	1.348	1.35	269.60	270.00
18	150	o"k fjr e ik/kk dh nk ckj funkb xMkb djuk (2*200=400 No)	ifr ik/kk	400	1.2	1.2	480.00	480.00
19	148	ik/kk dk ikuh fiykuk 20 yhVj ifr ik/kk lkr ckjA 200X7=1400 No	ifr ik/kk ifr lkr ckj	1400	1.85	1.85	2590.00	2590.00
20		ikuh [kjhn e; ifjogu 200X7X20=28000 Lit.	ifr Vdj / 4000 lit	7	0	450	0.00	3150.00
		dy jkf'k					3339.60	6490.00
		rhuk o"k dk dy ;kx					60976.62	96520.81
Increase Due to Labour Rate 135/- to 166/-								

74978.66 Rs.35,544 Rs.110,523

74978.66

Je Hkx e 30 % VklD dh deh d dkj.k vfrfjDr tkMuk

32128.355 32128.36

;kx

107107 142651.20

t kM 3 % ikuh okyk vk;k

3213.21 3213.21

;kx

110320 145864.41

t kM 2 % dfUVu t lh

2917.29

dy ;kx

148781.70

ylxr Je en e

110320

ylxr lkeXh en e

38461

dy ;kx

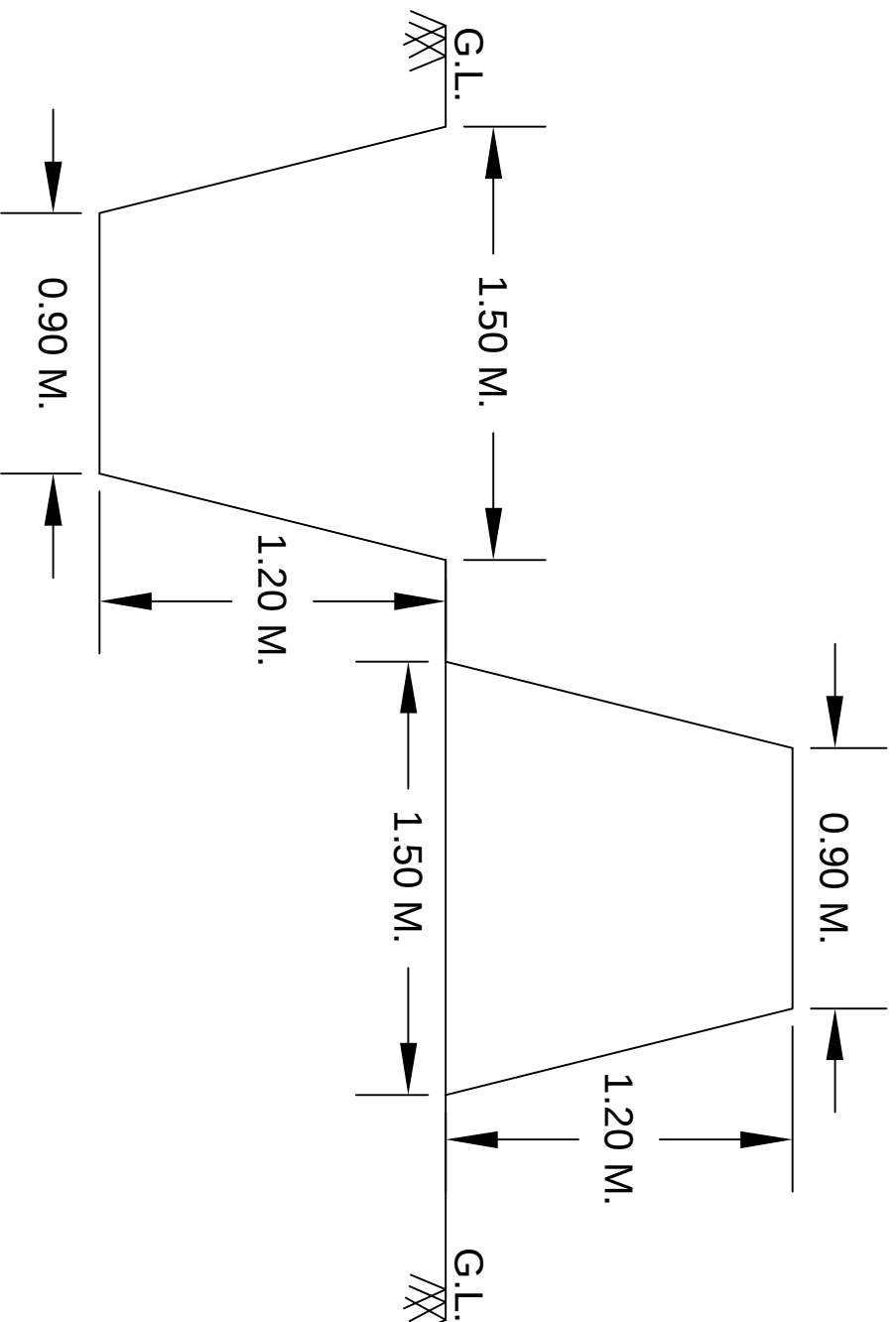
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SAHADA (IWMP - XIX) W/S 1/3,4 3/2,3 3/4
P.S. - SAHADA, DISTT. - BHILWARA (RAJ.)

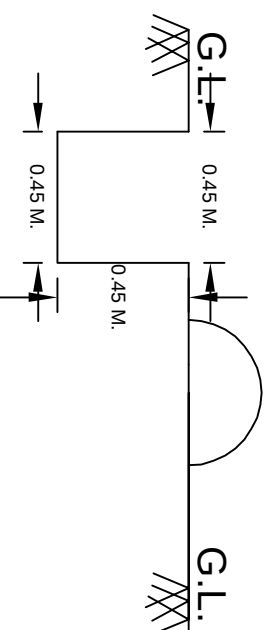
MODEL ESTIMATE OF AGRO FORESTY							
	Name of work:-	Karonda fencing					
	No of plants:-	150		Spacing		2mx2m	
				Rate		Amount	
S.no	Item	Quantity	Unit	Lc	Total	Lc	Total
	Karonda Fencing						
1	E/w Excavation for pit in hard soil in top of bund + 10% extra for different position	150	No	6.6	6.6	990.00	990.00
2	Cost of Karonda Plant Including Transporting,Loading & unloading. (6+2=8)	150	Per Plant	0	8.00	0.00	1200.00
3	Plantation work of plant	150	Per Plant	6.5	6.50	975.00	975.00
4	Watering Charges (three year) 3x5=15Nox150=2250 Nox15=33750						
A	Cost of water including Transporting	33750	4000 Per Litre	0	450.00	0.00	3796.88
B	Watering charges (150X15=2250)	2250	Per Plant	1.55	1.55	3487.50	3487.50
5	Treatment of pit						
A	Cost of FYM	150	Per Plant	0	1.00	0.00	150.00
B	Cost of Andosulphane	150	Per Plant	0	0.50	0.00	75.00
C	Cost of Clorophyropas 2ml per plant	0.30	Per Litre	0	350.00	0.00	105.00
D	Labour charge for treatment (0.49+0.24=0.73)	150	Per Plant	0.73	0.73	109.50	109.50
6	Weeding & Hoeing of plant in three year 2x3=6No x150 =900	900	Per Plant	1.1	1.10	990.00	990.00
	Total					6552.00	11878.88
7	Gap filling 20%					1310.40	2375.78
	Total					7862.40	14254.65
Aloevera plantation							
8	Cost of Aloevera Plant Including Transporting,Loading & unloading.	150	Per Plant	0	4.83	0.00	724.50
9	Plantation work of plant 1 mX1 m spacing	150	Per Rmt	7.985	8.82	1197.75	1323.00
	Total					1197.75	2047.50
	Grand Total					9060.15	16302.15
Increase Due to Labour Rate 135/- to 166/-							

11140.63	Rs.7,242	Rs.18,383	11140.63
Je Hkx e 30 % VklD dh deh d dkj.k vfrfjDr tkMuk			4773.759 4773.76
	;lx		15914 23156.39
tkM 3 % ikuh okyk vk;k			477.43 477.43
	;lx		16392 23633.82
tkM 2 % dfUVu t lh			472.68
dy ;lx			24106.50
SAY			24107
	y\lxr Je en e		16392
	y\lxr llexl en e		7715
	dy ;lx		24107

S. NO.	ACTIVITY			TOTAL	LABOUR	MATERIAL	LABOUR	MATERIAL	TOTAL
4	io'k fcln xfrfof/k	4%					0	26.290	26.290
1									
	TOTAL EPA						0.00	26.29	26.29
	t yxg.k dk; pj.k								
7	t yxg.k fodkl dk; pj.k	56%							
(I.)	df'k Hkfe dk; %vflfpr%								
(i)	CVH(NRM)Ha.		1418	8398	8065	333	114.36	4.72	119.08
(ii)	West weir No.		209	14100	4810	9290	10.05	19.42	29.47
(iii)	Farm Pond		28	81451	79079	2372	22.14	0.67	22.81
(II.)	%vdf'k Hkfe%								
(i)	pj'kxlg fodkl Ha.		125	77508	59110	18398	73.89	23.00	96.89
(ii)	NADI IN P.D BLOCK		5	235000	184000	51000	9.20	2.55	11.75
(iii)	pj'kxlg fodkl (Private farmer)		411	6844	3910	2934	16.07	12.06	28.13
(iv)	Open Contour Trench		352	10421	9116	1305	32.09	4.59	36.68
(IV.)	uky'k mipkj dk;								
(i)	Masanery Check Dam		17				2.15	4.72	6.87
(ii)	MMS		6				6.32	10.06	16.38
	TOTAL NRM						286.27	81.79	368.06
8	Livelihood System (9 %)	9%							
1	Revolving Fund to SHG (60 % minimum)		158	25000			0	39.40	39.40
2	Revolving Fund to enterprising individual (10 % maximum)		23	25000			0	5.75	5.75
3	Grant in aid to enterprising SHG or Federation of SHGs individual		8	175000			0	14.00	14.00
	TOTAL LIVELIHOOD						0.00	59.15	59.15
9	mR'iknu 0; oLFkk	10%							
	A.I. No.		2642	150			0	3.96	3.96
(ii)	Manger		200	800			0	1.60	1.60
(I.)	[kj'kQ No						0	8.08	8.08
(II.)	j'chl No.						0	4.68	4.68
(III.)	Qynkj ik/kk'kji.k Ha.		131	24000	15000	9000	19.64	11.78	31.41
(v.)	uMi dEikLV No		100	2000			0	2.00	2.00
(vi.)	df'k Hkfe (cvh Pro.) Other alu		230	1965	1103	862	2.54	1.98	4.52
(vii.)	df'k Hkfe (cvh Pro.) Other alu+kar		36	21038	13049	7989	4.70	2.88	7.57
(viii.)	kitchen garden KIT		211	900			0	1.90	1.90
	TOTAL PRODUCTION						26.87	38.85	65.72



X-SEC. OF D.C.B.

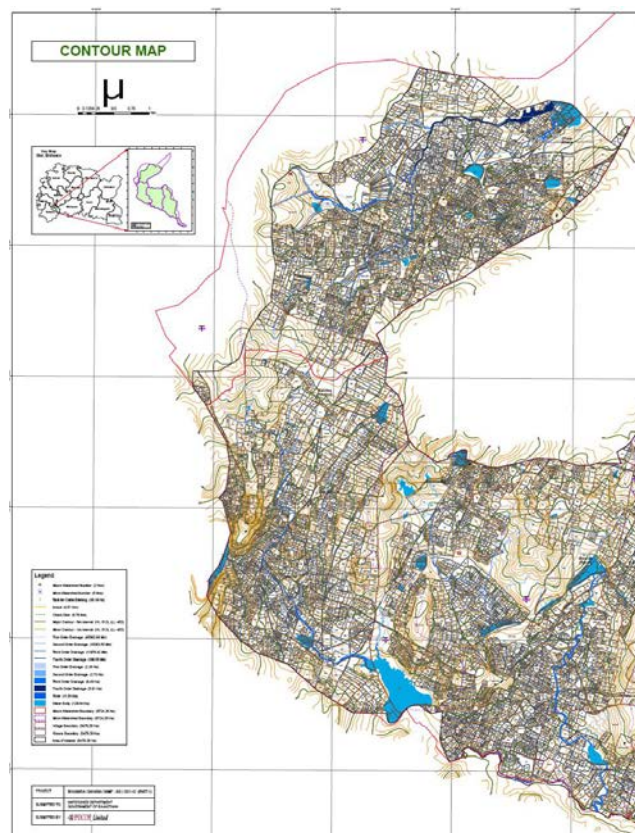


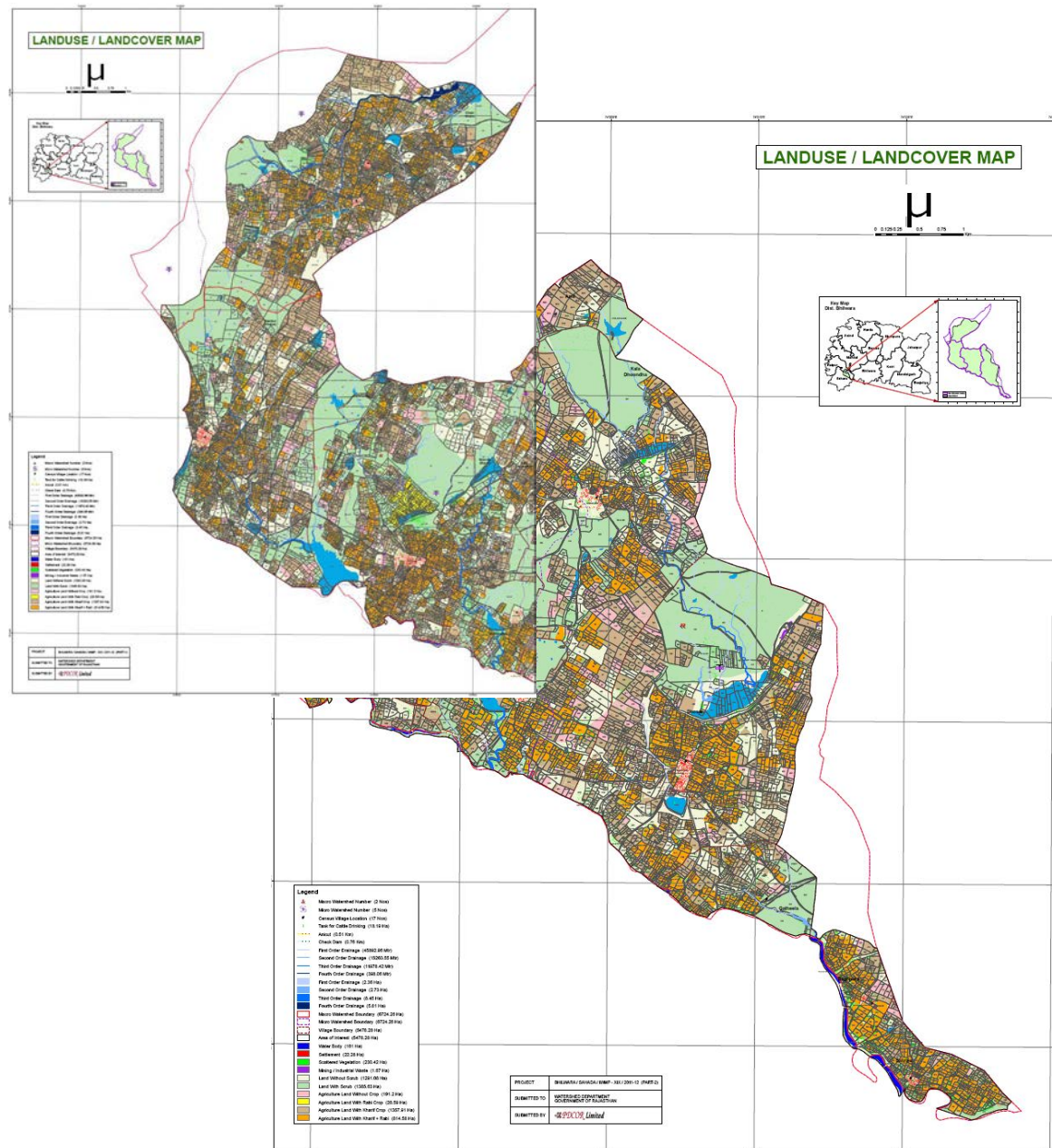
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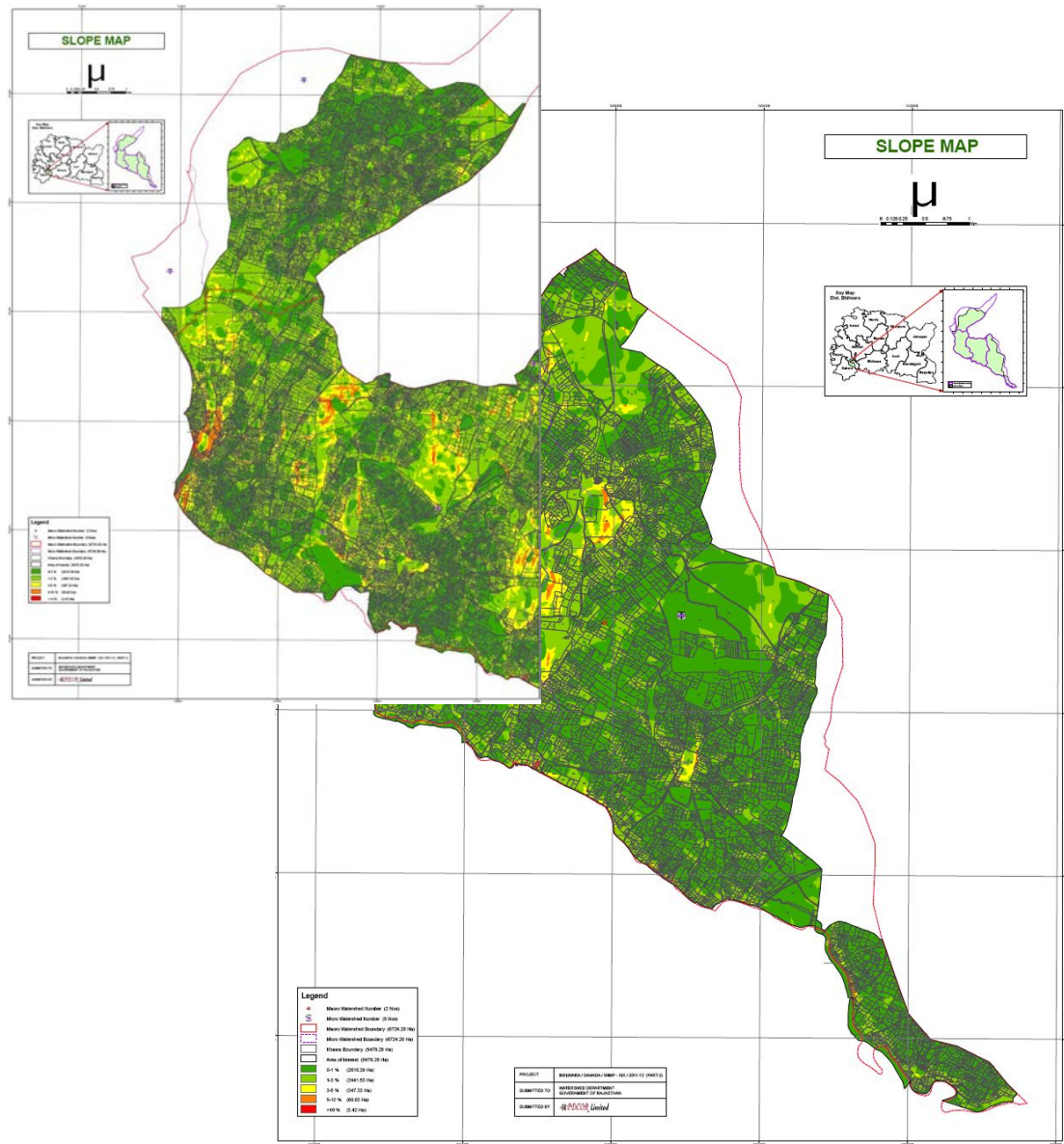








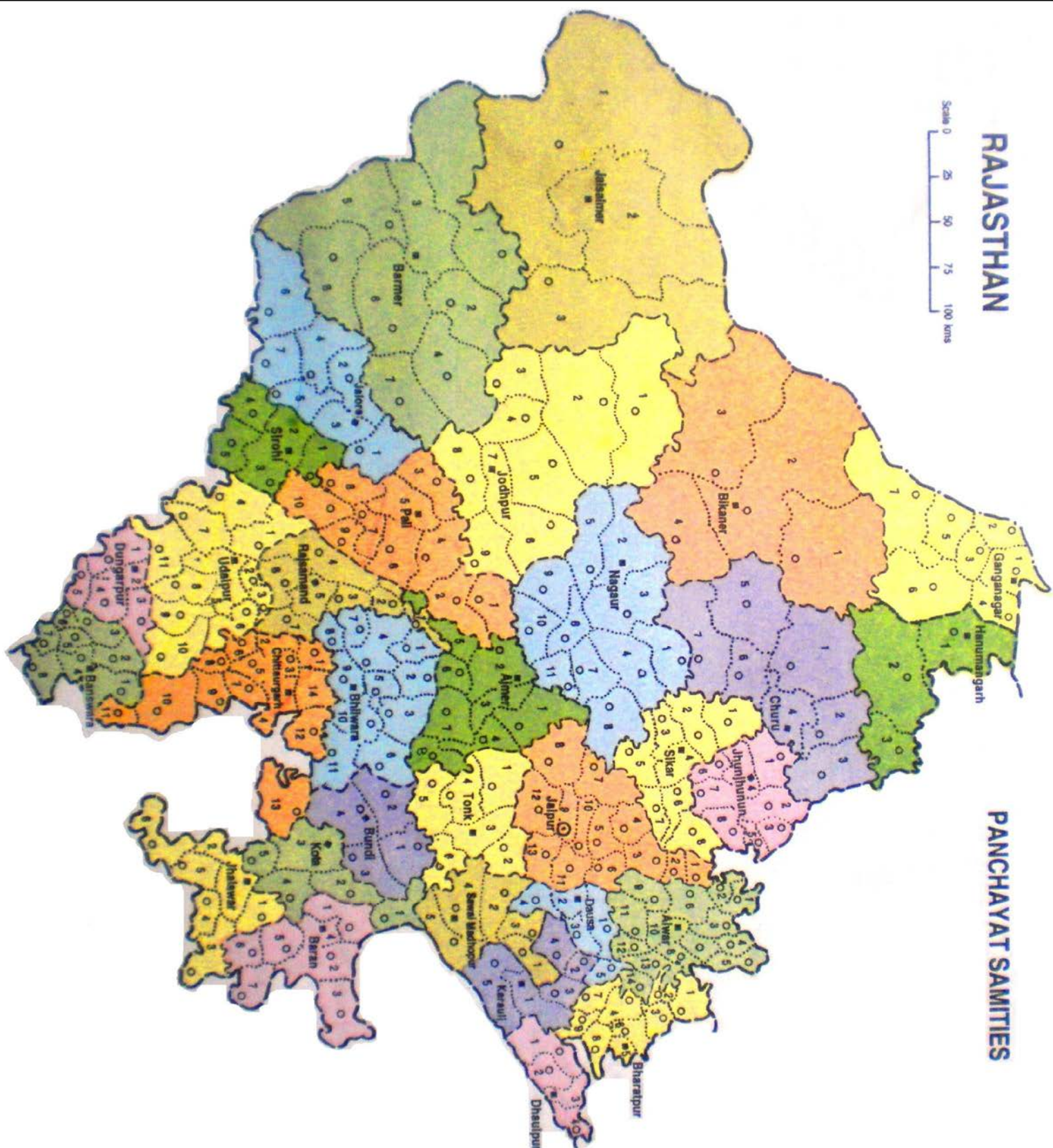




INDEX MAP – P.S. SAHADA
DISTT. – BHILWARA (RAJ.)



PANCHAYAT SAMITIES

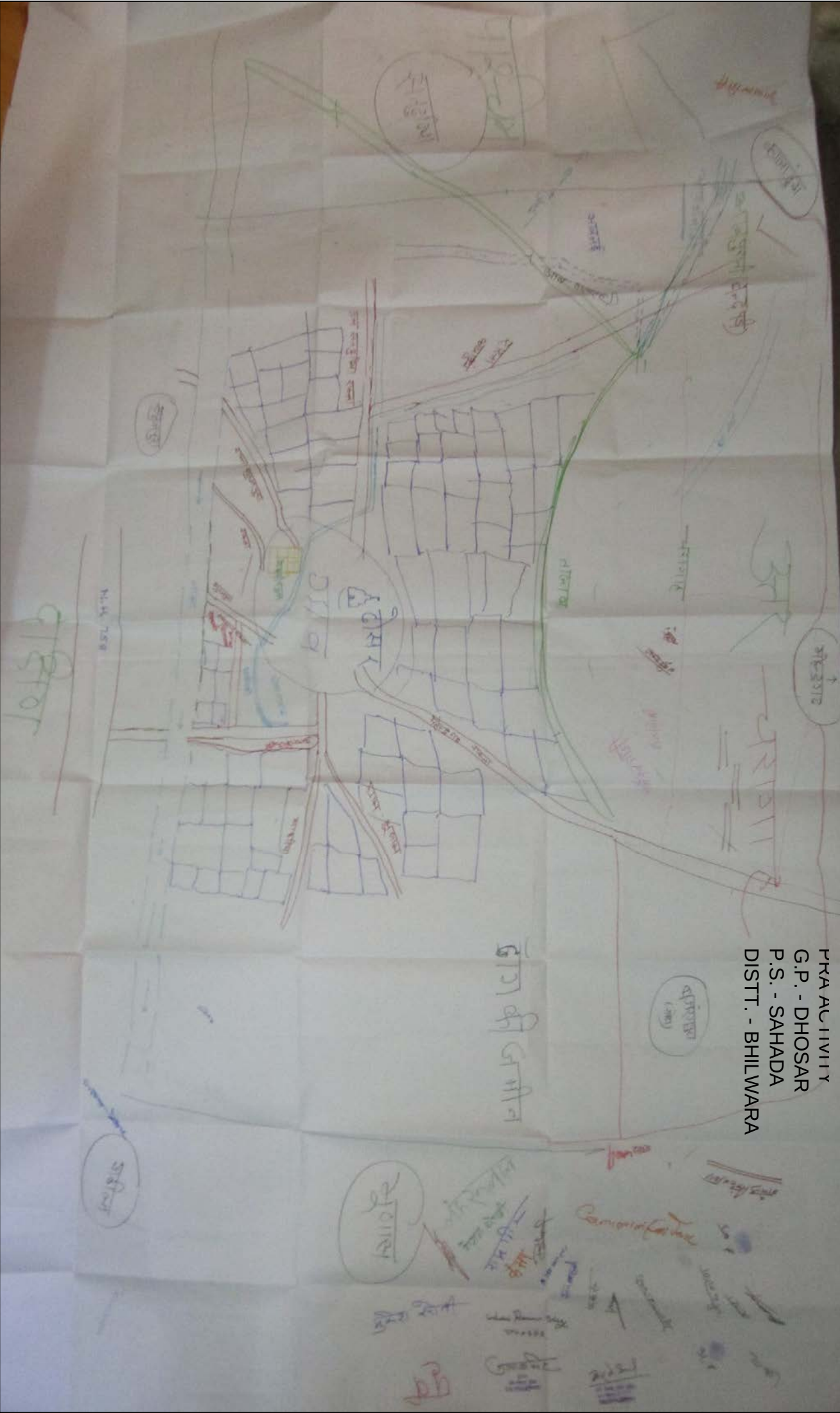


PRA ACTIVITY
G.P. - NANDSA
P.S. - SAHADA
DISTT. - BHILWARA





PRAALIMITY
G.P. - DHOSAR
P.S. - SAHAD
DIST. - BHLWARA





PRA ACTIVITY
G.P. - SHIVRATI
P.S. - SAHADA
DISTT. - BHILWARA

