

GOVERNMENT OF RAJASTHAN

RURAL DEVELOPMENT & PANCHYATI RAJ DEPARTMENT

WATERSHED DEVELOPMENT & SOIL CONSERVATION DEPARTMENT

RAJASTHAN, JAIPUR



DETAILED PROJECT REPORT

NAME OF WASTRSHED : **IWMP – II**

MACRO :- **6 & 8**

MICRO :- **1 & 1,2,4,5,10**

TOTAL AREA :- **4914 Ha**

FOREST AREA :- **210 Ha**

NET AREA :- **4704 Ha.**

TOTAL AMOUNT :- **564.48 LACS**

PANCHAYAT SAMITI :- **BASSI**

DISTRICT :- **JAIPUR**

PROJECT IMPLEMENTING AGENCY

ASSISTANT ENGINEER

PANCHYAT SAMITI- BASSI

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CHAPTER – I

1. INTRODUCTION

Water is the basic requirement for every living life. The importance of water conservation in the country has been recongnized since immemorial times. Over the years, watershed approach has conventionally been applied for the purpose of arresting rainwater runoff, its harvesting and in situ soil and moisture conservation in the country. The objective has essentially been achieved through development of waste and degraded lands under various Central and State Government Programmes. The Ministry of Rural Development is implementing special area development programmes for the purpose of water harvesting in drought prone, desert and rainfed areas. The Drought Prone Areas Programme and Desert Development Programme were started in 1973-74 and 1977-78 respectively. The Integrated Wastelands Development Programme was launched in 1989. On the basis of recommendations of the Hanumantha Rao Committee (1994), in the year 2003, the Ministry of Rural Development brought out the Guideline for Hariyali by suitably modifying the earlier guidelines. This brought the DDP, the DPAP and IWDP under a single umbrella. In the year 2000, the Ministry of Agriculture revised its guidelines for its programme, the National Watershed Development Project for Rainfed Areas (NWDPRAs).

In order to assess the performance of various ongoing programmes of watershed development, series of evaluation studies were conducted by Indian Council of Agricultural Research, State Agriculture Universities, National Remote Sensing Agency etc. After series of evaluation studies and impact assessment studies, in coordination with the Planning Commission, in the year 2008, Common Guidelines for Watershed Development Projects was formulated in order to have a unified perspective by all Ministries. This Common Guideline is applicable to all Watershed Development Projects in all Departments/Ministry of Government of India concerned with Watershed Development Projects. These guidelines coupled with the flexibilities, would provide an enabling framework for the planning, design, management and implementation of all watershed development projects in the country. All the watershed projects are being implemented in accordance with these Common Guidelines with effect from 1.4.2008. For interpretation of any of the provisions of these guidelines, the National

Rainfed Area Authority (NRRA), which has been set up in November 2006, will be the final authority. The common Guidelines for watershed development projects are based on equity and gender sensitivity; decentralization; facilitating agencies; community participation; capacity building and technology inputs; monitoring evaluation and learning and organizational restructuring.

1.1. Sanction of IWMP project:

During the year 2009-10 under the Centrally Sponsored Scheme Integrated Watershed Management Programme (IWMP) for implementation in accordance with the Common Guideline for Watershed Development Projects, 2008, the 4914 ha Watershed Project IWMP-II has been sanctioned in BASSI block of Jaipur District. The Administrative and Financial Sanction of the project has been issued by Rural Development & Panchayati Raj Department, Commissionerate, Watershed Development and Soil Conservation vide letter no. F-18 (199)WDSC/PFC/2009/1822-2104, Dated 11-11-2009.

The Bassi Block is distributed in 39 Gram Panchayat. The proposed watershed area is covered in 28 villages of 7 Gram Panchayats. The distance/vicinity of the watershed area from Bassi Panchayat Samiti Headquarter is 15 to 30 Km. The area includes the high hilly and hard rocks, in which rainwater flows in Nallas/Nadi. The water level is regularly decreasing due to increasing well/tube wells. Due to various significant problems, the area has been selected for integrated development.

As per the social survey and by interviewing the people of the area, shows that in the area water table is decreasing, land degradation due to soil erosion, increase in population, poor livestock productivity, fodder shortage and marketing opportunities. Therefore the area has been selected for integrated development with focus on integrated farming system for increasing productivity, livelihood and regular income in a regular way. As various research conducted for rainfed areas shows that the efficient water management through soil and water conservation measures is the key to sustainable development. The integrated watershed approach i.e. conserving natural resources of water, soil and vegetation has been accepted as a major theme for development of rainfed areas.

The introduction of NREGA in the area various water harvesting structures specially Farm Ponds/Talai have been constructed. Looking to the plan of the NREGA the few new water harvesting structures has been proposed. In some places only spillways have been proposed. The main stress have been given on contour vegetative bunds with proper outlets/wasteweirs, pasture development, loose stone check dams, small earthen bunds, staggered box trenches in pasture areas and table land protection bunds. Also in watershed area diversion channels from higher areas towards farm ponds have been proposed, where water is spread and stagnated in the field.

1.2. Institutional Arrangements:

As per Common Guidelines for effective execution and management of watershed development appropriate institutional arrangements has been made at National, State and District levels for effective and professional management of watershed development projects. The institutional arrangements at State, District and Project level are as follows:

- a. State Level Nodal Agency (SLNA)** : At State level
- b. District Watershed Development Unit (DWDU)** : To ensure coordination at district level, a DWDU have been constituted.
Executive Engineer (Land Resources), Zila Parishad, Jaipur, (Rajasthan)
Phone No. 0141-5146789
- c. Project Implementing Agency (PIA)** : Assistant Engineer, Panchayat Samiti, Bassi, District Jaipur (Rajasthan)
Phone No 01429-222223

d. Watershed Development Team (WDT) :

The WDT is an integral part of the PIA having at least four members, broadly with the knowledge and experience in Agriculture, Social Science, Water Management (Engineering) and Animal Husbandry/Live Stock. Following four WDT members have been selected at PIA level with open advertisement:

S.No.	Subject Specialist	Name	Qualification
1.	Engineering	Sh. Ramavtar Meena	B.Tech (Civil)
2.	Agriculture	Sh. Meetha Lal Meena	B.Sc. (Agriculture)
3.	Animal Husbandary	Sh. Manish Sharma	LSA (2 yrs Diploma)
4.	Social Science	Smt. Shilpi Mishra	B.A. (Sociology)

e. User Groups:

As per guideline and directions given by SLNA, with the help of WDT members, for each Gram Panchayat separate user groups have been formed for different works/ activities. The homogeneous groups have been constituted, who may be most affected by each work/activity and shall include the persons having land holding within the watershed areas. Each UG's have been formed of the persons who are likely to derive direct benefits from a particular watershed work or activity. The representation of each village has been considered in the formulation of groups. In each group a president has been elected. These groups have been constituted in Gram Sabha's. The programme of Gram Sabhas in different Gram Panchayats was been scheduled by Block Development Officer, Panchayat Samiti, Bassi. The Gram Panchayat wise details of elected user groups have been enclosed at **Annexure –I**.

f. Self Help Groups:

In the Gram Panchayat the SHG groups have been constituted. The groups have been formed according to interest of their work. The homogeneous groups have been formed having common identity, who are dependent on the watershed area such as agricultural labourers,

landless persons, women, scheduled caste/scheduled tribes persons. The Gram Panchayat wise details of elected SHG groups are enclosed at **Annexure –II**.

g. Watershed Committee:

In the Gram Sabha, after constitution of UG's and SHG's, the watershed committee for each gram panchayat has been formed separately. The committee comprises of 10-13 members. In the committee all the presidents of user and self help groups, representation of SC/ST, land less persons and female representation have been considered. In the formation of committee it was also considered that the members of all the villages of Gram Panchayat are included, so that they can take care of work/need of their village. After constitution of watershed committee the Chairman/President and Secretary has been selected/ elected. The Gram Panchayat wise detail of Watershed Committee is enclosed at **Annexure –III**.

h. President and Secretary of Watershed Committee:

The each watershed committee has been registered under society registration act. The gram Panchayat wise elected president and secretary are as follows:

S.N.	Gram Panchayat	Name of Watershed Committee	President	Secretary	Registration No.
1.	Garh	Doobli	Sh Heera Lal Gurjar	Sh. Brij Mohan Sharma	477/29.7.10
2.	Madhogarh	Madhogarh	Sh. Shiv Pratap Singh	Sh Babu Lal Meena	474/29.7.10
3.	Karan Garh	Karan Garh	Sh. Ram Sahay	Sh. Babu Lal Sharma	476/29.7.10
4.	Toonga	Toonga	Sh. Nanda Ram	Sh. Babu Lal Sharma	473/29.7.10
5.	Anatpura	Anatpura	Sh. Kanhiya Lal Berwa	Sh. Rang Lal Saini	475/29.7.10
6.	Rajpura Patalwas				
7.	Bhoodla				

1.3. Details of Bank Account:

For each water shed committee, the separate saving bank account has been opened with the name of Secretary and WDT member (Junior Engineer). One separate Watershed Development Fund (WDF) account has been opened for each committee. In the WDF Account no transaction will be done only the contribution received from beneficiaries will be deposited.

The details of bank account for watershed committee are as follows:

S.No	Watershed Committee	Account		Bank Name
		Saving A/C No.	WDF A/C No.	
1.	Doobli	660810110002197	660810110002202	Bank of India, Kalayan Pura, Bassi.
2.	Madhogarh	660810110002199	660810110002204	Bank of India, Kalayan Pura, Bassi.
3.	Karan Garh	660810110002196	660810110002201	Bank of India, Kalayan Pura, Bassi.
4.	Toonga	660810110002200	660810110002205	Bank of India, Kalayan Pura, Bassi.
5.	Anatpura	660810110002198	660810110002203	Bank of India, Kalayan Pura, Bassi.
6.	Rajpura Patalwas			
7.	Bhudla			

CHAPTER – II

2.1. BASIC FEATURES:

The basic features of the sanctioned watershed project:

Name of Project	:	Jaipur – IWMP –II
Local Name of Project	:	Hatipura
Macro/Micro No.	:	8/1,2,4,5,10 & 6/1
Project Area	:	4914 ha
Cost of Project	:	589.68 ha
Cost per hectares	:	Rs. 12000
Year of Sanction	:	2009-10
No. Gram Panchayat	:	7
No. of villages in Project area	:	27
Elevation	:	315 m
Major Streams	:	Bhudla Nadi
Latitude/Longitude	:	76 ° to 77 ° North / 26 ° to 27° East

2.1.1. Present Land use:

The village wise present land use of project area with net sown area is shown in **Table 1**. The village wise and Account holder wise details of land is shown in **Table 2**. According to revenue record/Jamabandi the village wise classification of land for each Gram Panchayat have been shown in **Table 3 to 9**. The Village wise details of Irrigated, Unirrigated, Waste Land, Pasture Land area is shown at **Table 10**.

2.1.2. Livestock Status:

The status of livestock i.e. Cow, Buffalo, Sheep, Camel, Pig in the area is as follows:

S.N.	Name of Village	Cow		Buffalo	Goat	Sheep	Camel	Bull	Pig
		Indi.	Hybrid						
I.	G.P. Toonga								
1.	Toonga	600	450	650	250	120	10	16	200
2.	Chak Toonga	4	6	18	6				
3.	Siya Ka Bass	16	7	57	18	20			
4.	Akhepura	57	31	150	92	-	-	4	-
II.	G.P. Karangarh								
1.	Nagrajpura	13	229	539	32		1	2	20
2.	Bhudarpura	35	25	250	300	100	2	2	
3.	Lalpura	53	61	108	50			6	
4.	Ballupura	40	60	300	200			6	
III.	G.P. Garh								
1.	Doobli	70	120	350	450	400	6	4	
IV.	G.P. Madhogarh								
1.	Gumanpura	150	58	163	265			8	
2.	Gwalini	80	120	110	300	350	4	4	
3.	Madhogarh	50	70	80	200	300	2	6	60
4.	Chak Madhogarh	26	15	36	26				
V.	G.P. Bhudla								
1.	Bhudla	45	20	120	100	150	2	6	
2.	Rojwari	70	35	40	30	50	3	2	
3.	Chak Rojwari	35	20	50	20	100	1	4	
4.	Lalawala	25	15	100	25	10	1	4	
5.	Baori Ka Bass	20	18	70	30	40	2	2	
6.	Rajwas	25	18	35	40	80	2	4	

S.N.	Name of Village	Cow		Buffalo	Goat	Sheep	Camel	Bull	Pig
		Indi.	Hybrid						
VI.	G.P. Rajpura Patalwas								
1.	Rajpura Patalwas	800	750	2450	3500		12	110	
2.	Tekchandpura	40	35	70			2	4	
3.	Charangarh	120	180	200	300	50	10	10	
4.	Dhingar Ka Bass	60	15	80	120	60	2	4	
5.	Tilpatti.	350	700	50	200		1	6	
6.	Kho Rajewala	6	4	6	20				
VII.	G.P. Anatpura								
1.	Ratanpura	108	49	123	43			7	
2.	Biharipura	25	35	120	300	50	5	4	
Total		2923	3146	6325	1880	6917	68	225	280

2.1.3. Existing Horticulture and Fodder Availability:

The village wise existing area under horticulture and fodder is as follow:

S.N.	Name of Village	Existing Area under Horticulture		Existing Area under Fodder
		Vegetable	Orchard	
I.	G.P. Toonga			
1.	Toonga	53.00	1.50	13.00
2.	Chak Toonga	0.50	-	1.00
3.	Siya Ka Bass	1.50	-	4.00
4.	Akhepura	2.50	1.50	10.00
II.	G.P. Karangarh			
1.	Nagrajpura	75.00	1.50	20.00
2.	Bhudarpura	20.00	-	10.00
3.	Lalpura	10.00	-	10.00
4.	Ballupura	6.00	-	12.00

S.N.	Name of Village	Existing Area under Horticulture		Existing Area under Fodder
		Vegetable	Orchard	
III.	G.P. Garh			
1.	Doobli	3.00	-	12.00
IV.	G.P. Madhogarh			
1.	Gumanpura	4.00	1.50	10.00
2.	Gwalini	2.00	4.00	10.00
3.	Madhogarh	3.00	-	10.00
4.	Chak Madhogarh	0.50	-	1.50
V.	G.P. Bhudla			
1.	Bhudla	1.50	2.00	15.00
2.	Rojwari	2.50	0.50	5.00
3.	Chak Rojwari	1.50	0.50	3.00
4.	Lalawala	1.00	-	12.00
5.	Baori Ka Bass	3.50	-	4.50
6.	Rajwas	3.00	-	15.00
VI.	G.P. Rajpura Patalwas			
1.	Rajpura Patalwas	3.50	-	10.00
2.	Tekchandpura	1.50	0.50	12.00
3.	Charangarh	3.00	-	13.00
4.	Dhingar Ka Bass	3.00	1.00	3.00
5.	Tilpatti.	1.50	-	5.00
6.	Kho Rajewala	-	-	1.00
VII.	G.P. Anatpura			
1.	Ratanpura	3.00	-	5.00
2.	Biharipura	2.50	-	3.00

2.1.4. Existing Fodder Availability and Requirement:

The per day dry and green fodder requirement of different animals are as follows:

S.No.	Animal	Average Fodder Requirement per day (Kg.)	
		Dry Fodder	Green Fodder
1.	Buffalo	9	8
2.	Cow (Indi.)	5	6
3.	Cow (Hybrid)	6	8
4	Goat	1	4
5.	Sheep	4	1
6.	Camel	15	8

The per year requirement of green and dry fodder for different available livestock are as follows:

S.No.	Animal	No.	Per day requirement (Kg)		Per Year requirement (Kg)	
			Dry Fodder	Green Fodder	Dry Fodder	Green Fodder
1.	Buffalo	6325	56925	50600	20777625	18469000
2.	Cow (Indi.)	2923	14615	17538	5334475	6401370
3.	Cow (Hybrid)	3146	18876	25168	6889740	9186320
4	Goat	1880	1880	7520	686200	2744800
5.	Sheep	6917	6917	27668	2524705	10098820
Total			99213	128494	36212745	46900310

In the project area about 60 percent of the required fodder is produced. The cultivator has to bring 40 % of the fodder from outside. The cultivators bring only dry fodder from other area. The green fodder gives about 30 percent of dry matter. So to calculate the net quantity of fodder requirement, 30 % of green fodder has been added to dry fodder. The total

requirement, production and purchase quantity of fodder after converting green fodder into dry fodder for one year are as follows:

S.No.	Calculation of Requirement of Dry Fodder for one year after converting Green Fodder into Dry Fodder		
	Total Production of Dry Fodder (Kg)	Total Requirement (Kg)	Quantity Required to be purchased (Kg)
1.	33347465	50282838	18700336

Therefore, in the project area about 18700 Ton of dry matter has to be purchased from outside the project area.

2.1.5. Milk Production:

The average Milk Production of different animals in the project area is:

Cow	:	5 kg per Cow
Buffalo	:	7 Kg per Buffalo
Goat	:	3.5 Kg per Goat

2.1.6. Demography:

As per census record 2002, the village wise House Hold, Population and other details are presented in **Table 11**. The Total population of the project area is 23015. The total male population is 52 % and female Population is 48 %. The Overall SC and ST population is 19.66 % and 14.97 % respectively. The Total Household in the area is 3198.

Survey conducted in the year 2002 and subsequent orders issued by Sub Divisional Officer, Bassi and Chief Executive Officer, Zila Parishad, Jaipur in the project area the village wise BPL are as follows:

S.No.	Gram Panchayat/Village	No. of BPL
I.	Karangarh	
1.	Nagrajpura	13
2.	Karangarh	7
3.	Bhudarpura	15
4.	Ballupura	11
5.	Lalpura	5
II.	Anatpura	
1.	Ratanpura	13
2.	Biharipura	5
III.	Madhogarh	
1.	Gwalini	34
2.	Gumanpura	18
3.	Madhogarh	56
4.	Chak Madhogarh	1
5.	Dhauri	12
IV.	Toonga	
1.	Siya Ka Bass	34
2.	Chak Toonga	6
3.	Toonga	131
4.	Akhepura	4
V.	Rajpura Patalwas	
1.	Dhingar Ka Bass	20
2.	Tekchandpura	13
3.	Charangarh	25
4.	Rajpurapatalwas	29
5.	Kho-Rajewala	4
6.	Tillpatti	17
VII.	Bhudla	
1.	Rajwas	5

S.No.	Gram Panchayat/Village	No. of BPL
2.	Chak Rojwari	3
3.	Baori Ka Bass	5
4.	Lalawala	-
VIII.	Garh	
1.	Doobli	21
Total		507

2.1.7. Infrastructure Facilities Available:

The Details of infrastructures in the project area are as follows:

S.No.	Parameters	Status			
1.	No. of Villages connected to the main road	All the 28 villages of project area is connected to main road. The nearest railway station is Bassi.			
2.	No. of Villages provided with electricity are provided with electricity	All villages are provided with electricity			
3.	No. of Educational Institutions	Primary 12	Secondary 12	Hr. Sec. 5	Voc.Inst. 2
4.	No. of Villages with access to primary health Centres	7 [Gwalini, Toonga, Nagrajpura, Lalpura, Bhudla, Chak Rojwadi, Rajpura Patalwas]			
5.	No. of Villages with access to Veterinary Dispensary	In four villages Veterinary Dispensary is available			
6	No. of villages with access to post office	All the villages are covered with PO. Main post office is at Toonga			
7	No. of Villages with access to Market / Mandis.	All the villages are covered with market / mandis. The main market is at Toonga and Bassi.			
8.	Anganwadi Centres	All the villages have Anganwadi Centres.			
9.	Nearest KVK	Durgapura, Jaipur			
10.	No. of villages with access to Agro Industry	-			
11.	Total Quantity of Surplus Milk	16800 Kg in Project Area			

S.No.	Parameters	Status
12	No. of Milk Collection Centres	10 (Karangarh 3, Toonga 1, Madhogarh 1, Bhudla 1, Rajpura Patalwas 2, Doobli 1, Anatpura 1)
13.	Cooperative Society	1
14.	NGO's	1. Shradha Mahila Prashikhsan Sansthan, Jaipur 2. Sidhi Vinayak, Bandikui, Distt. Dausa
15.	Credit Institutions	Toonga : SBBJ, BOI, Gramin Bank Chak Rojwadi : BOI
16.	IT Center	All the Gram Panchayat would have IT Center (MGNREGA scheme)

2.1.8. Mahatma Gandhi National Rural Employment Guarantee Act Status:

In the block, MGNREGA is major scheme which is being implemented in the project area. In the project area, Gram Panchayat wise details of number of card holder are as follows:

S.No.	Gram Panchayat	Village	No. of Card Holders
1.	Anatpura	Ratanpura	55
		Biharipura	80
Sub Total			135
2.	Karangarh	Nagrajpura	9
		Bhudarpura	42
		Lalpura	88
		Ballupura	80
Sub Total			219
3.	Toonga	Toonga	496
		Chak Toonga	36
		Siya ka Bass	200
		Akhepura	175
Sub Total			907

S.No.	Gram Panchayat	Village	No. of Card Holders
4.	Bhudla	Bhudla	300
		Lalawala	125
		Rojwari	120
		Chak Rojwari	115
		Rajwas	102
Sub Total			762
5.	Madhogarh	Madhogarh	160
		Chak Madhogarh	30
		Gwalini	100
		Gumanpura	125
		Dhauri	75
Sub Total			490
6	Rajpurapatalwas	Rajpurapatalwas	800
		Tekchandpura	145
		Charangarh	155
		Dhingar ka Bass	140
		Tillpati	160
		Kho Rajewala	140
Sub Total			1540
7.	Garh	Doobli	250
G. Total			4303

2.1.9. Land Holding Details:

The land holding details i.e irrigated and rainfed for large, small and marginal farmers is enclosed at **Table 12**.

2.1.10. Other Development Schemes in the Project Area:

The Mahatma Gandhi National Rural Employment Guarantee Act is the main scheme which is being implemented in the project area. Other schemes are implemented through Agriculture Department, ICDS, Animal Husbandary, PHED etc. People of the area are benefited through these schemes.

2.2. Technical Features:

The various technical features of the area are as follows:

2.2.1. Collection of Revenue Record:

For all the villages of the project area the revenue map and details of cultivators/revenue record/ Jamabandi have been collected from revenue department.

2.2.2. Maps of the Area:

The Natural Resource Management component requires scientific and technical data. As per Common Guidelines-2008, the detailed project report is to be prepared with complete GIS and Remote Sensing application. Therefore, in the context the State Remote Sensing Application Center (SRSAC), Jodhpur has been directed by department to prepare the various thematic layers i.e. present land use, land cover, topographical details, slope groups, ground water status, contour line, macro and micro boundary of the project area on 1:10,000 scale. The SRSAC has submitted all the above required maps.

2.2.3. Slope Details of Area:

The proposed area includes hills. The area in various slope groups of the proposed water shed area is as follows:

S.No.	Slope Percentage	Area in hectares
1.	0 to 3 %	2654
2.	3 to 8 %	1474
3.	8 to 25 %	422
4	> 25 %	364

The SRSAC Jodhpur has generated the map (**MAP 2**), showing the slope groups 0–1 %, 1-3 %, 3–5 %, 5-10 %, 10-15 %, 15–35 %, 35–70 % and >70 %.

2.2.4. Water Budgeting:

To propose the total number of water harvesting structures, it is necessary to do water budgeting of the area i.e. how much total run-off is available, out of which how much is being already stored in existing structures and how much balance is available for storage. As per guideline, maximum 75 % of balance available run-off is to be stored and 25 % of balance available run-off is to be allowed to flow in the drainage line.

In the proposed area, the various water harvesting structures have been constructed. The surface runoff has been stored in the structures. In the area about 61 structures have been constructed.

For water budgeting, the area is calculated and divided in following three groups:

Good Catchment : Where runoff is maximum and infiltration is minimum like hillocks, plateau etc

Average Catchment : Cultivated land, forest land with vegetation

Bad Catchment : Where runoff is minimum and infiltration is maximum e.g. sandy soil

For estimation/water budgeting the proposed water shed area has been divided as follows:

Good Catchment : 1700 ha

Average Catchment : 2200 ha

Bad Catchment : 1014 ha

Average Annual Rainfall for the block is 556 mm (21.89 inch)

By interpolation method the proportion of estimated runoff of 21.89 inch rainfall have been calculated from Strange's Table as follows:

Monsoon Rainfall in inches	Yield of Runoff from Catchment (MCft/sq. mile)		
	Good Catchment	Average Catchment	Bad Catchment
21 inch	7.855	5.891	3.927
22 inch	8.842	6.631	4.421
For inch	0.987	0.740	0.494
For 0.89 inch	0.88	0.66	0.44
For 21.89 inch	8.735	6.551	4.367

Note : 1 MCft/sq. mile = $1000000 * 0.0283/258.99 = 109.271$ cum /ha

(1 Cft = 0.0283 cu m, 1 sq. mile = 258.99 ha)

A. Calculation of Expected Yield

Type of Water Shed	Area of Water Shed (ha)	Factor	Expected Yield (cu m)
Good	914	$8.735 * 109.271 = 954.482$	872396.548
Average	1400	$6.551 * 109.271 = 715.834$	1002167.600
Bad	2600	$4.367 * 109.271 = 477.187$	1240686.200
Total (A)			3115250.348

B. Present Storage By Existing Structure

S.No.	Name of Structure	No	Storage Capacity (cum)
1.	Talai	52	624000
2.	Anicut	9	105000
3.	Local depression		580000
Total (B)			1309000

Balance Runoff (C) = Expected Yield – Present Storage

C = 3115250.348 – 1309000 = 1806250.348 cu m

About 75 % of balance runoff may be stored by constructing new structure

0.75 * C = 1354687.761 cu m

Proposed New Structures:

S.No.	Name of Structure	No./length	Storage Capacity (cum)
1.	Anicut/Structures	200 Nos.	21320
2.	Contour bunds	170302 m	1277265
Total			1298585

For Contour Bunding:

Area : $\frac{1}{2} * 0.30 * 50 = 7.50$ sqm

For 170302 m, total Quantity/capacity = 1277265 cum

For WHS:

Average Capacity for 44 Structures : $\frac{1}{2} * 0.50 * 20 * 65 = 325$ cum (For 1 Structure)

For 44 Structures = 14300 cum

Average Capacity for 156 Structures : $\frac{1}{2} * 0.45 * 4 * 50 = 45$ cum (For 1 Structure)

For 156 = 7020 cum

2.2.5. Soil Profile and Soil Fertility Status:

The major soil classes of the area are sandy loam and loam. The project area in the major soil classes are as follows:

S.No.	Major Soil Classes	Area in hectares
1.	Sandy Loam	2864
2.	Loam	2150

The average soil fertility status i.e. N, P, K, Micronutrients in the watershed project area are:

N	50-70 Kg/ha
P	20-30 Kg/ha
K	10-15 kg/ha
Micro Nutrients	PPM 100-500

2.2.5. Climatic Details:

The Agro climatic Zone of proposed watershed area is III A. The average annual rainfall of the block is 556 mm. The Year Wise Annual Rainfall for the last 10 yr is as follows:

Year wise annual rainfall in mm										
2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010 (upto Sept.)
312.4	383	294	652	591	601	295.5	402	548	348	880.4

The average annual rainfall of the block is 556 mm. The average monthly rainfall of the block is as follows:

S.No.	Month	Rainfall (mm)
1.	June	59 (6 days)
2.	July	112 (11 days)
3.	August	176 (13 days)
4.	September	34 (days)

The maximum and minimum temperature of the block is as follows:

S.No.	Season	Maximum	Minimum
1.	Summer	46 °C	32 °C
2.	Winter	28 °C	4 °C
3.	Rainy	37 °C	28 °C

2.3. Problems, Demand and Scope for development:

2.3.1. Natural Resource Management:

While socially surveying the area, it was realized that various water harvesting structures mostly talai's have been constructed in the area for storing the water. But due to non

availability of outlets/waste weirs the water was released by cutting the banks. The main problem of the area is availability of stored water. For further development, it has been planned that all the structures will be provided with waste weirs, so that the water can be stored up to the design level without any fear.

During the rainy season it was found that the rain water from the higher areas flows down and spread in the lower area and damaging the fields. As per need and suggestions given by the beneficiaries/public representative, the diversion channels have been proposed to convey water to near by tanks. This will certainly solve the problems of the area and sufficient water will also be stored for live stock and will help in recharging the nearby wells.

The agriculture land of the area is affected by sheet erosion and forming the rills/gullies. The problem can be solved by bunding the fields. Therefore to protect the land, the main thrust is given on contour bunding with proper outlets.

2.3.2. Agriculture and Horticulture Productivity:

In the watershed area the production of Agriculture and Horticulture Plants are not to that extent due to lack of improved variety and techniques. The village wise Agriculture production of different crops grown in Kharif/Rabi seasons of the proposed watershed area is shown in **Table13**. From the village wise productivity of each crop, the average productivity of Gram Panchayat has been calculated. Comparison of Average Productivity of Gram Panchayat with District and Block and proposed productivity for major crops of Kharif and Rabi Seasons are shown in following tables and in **Figure 1** and **Figure 2** respectively. Simultaneously the proposed productivity level of different crops is also shown. The production will be increased by introduction of new varieties and fertilizer level of different crops. Looking to the data it is observed that the productivity of Bassi Block for almost all the crops are higher than the productivity of District. The average productivity in each Gram Panchayat is less than Block's Productivity.

Gram Panchayat wise Average Productivity (Kg/ha) for Kharif Crops:

Crops	Jaipur District	Bassi Block	G.P. Toonga	Proposed
Bajra	1101	1500	1425	1600
Groundnut	1401	1850	1316.6	1850
Guar	1000	1050	597.5	1050
Crops	Jaipur District	Bassi Block	G.P. Karangarh	Proposed
Bajra	1101	1500	1350	1500
Groundnut	1401	1850	1300	1850
Guar	1000	1050	672.5	1050
Crops	Jaipur District	Bassi Block	G.P. Madhogarh	Proposed
Bajra	1101	1500	1362.5	1500
Groundnut	1401	1850	1300	1850
Guar	1000	1050	687.5	1050
Crops	Jaipur District	Bassi Block	G.P. Bhudla	Proposed
Bajra	1101	1500	1425	1500
Groundnut	1401	1850	1200	1850
Guar	1000	1050	350	1050
Crops	Jaipur District	Bassi Block	G.P. Rajpura Patalwas	Proposed
Bajra	1101	1500	1416.6	1500
Groundnut	1401	1850	1310	1850
Guar	1000	1050	758	1050
Crops	Jaipur District	Bassi Block	G.P. Anatpura	Proposed
Bajra	1101	1500	1350	1485
Groundnut	1401	1850	1800	1850
Guar	1000	1050	800	1050
Crops	Jaipur District	Bassi Block	G.P. Garh (Doobli)	Proposed
Bajra	1101	1500	1450	1500
Guar	1000	1050	710	1050

Gram Panchayat wise Average Productivity (Kg/ha) for Rabi Crops:

Crops	Jaipur District	Bassi Block	G.P. Toonga	Proposed
Wheat	2796	3500	2966.6	3500
Barley	2481	3600	3100	3600
Mustard	763	1200	1287.5	1545
Crops	Jaipur District	Bassi Block	G.P. Karangarh	Proposed
Wheat	2796	3500	2800	3500
Barley	2481	3600	2950	3600
Mustard	763	1200	1170	1300
Crops	Jaipur District	Bassi Block	G.P. Madhogarh	Proposed
Wheat	2796	3500	2762.5	3500
Barley	2481	3600	2875	3600
Mustard	763	1200	1212.5	1455
Crops	Jaipur District	Bassi Block	G.P. Bhudla	Proposed
Wheat	2796	3500	2800	3500
Barley	2481	3600	2937.5	3600
Mustard	763	1200	1083	1350
Crops	Jaipur District	Bassi Block	G.P. Rajpura Patalwas	Proposed
Wheat	2796	3500	2841.6	3500
Barley	2481	3600	3040	3600
Mustard	763	1200	1310	1400
Crops	Jaipur District	Bassi Block	G.P. Anatpura	Proposed
Wheat	2796	3500	2750	3500
Barley	2481	3600	2925	3600
Mustard	763	1200	1250	1400
Crops	Jaipur District	Bassi Block	G.P. Garh (Doobli)	Proposed
Wheat	2796	3500	3000	3500
Barley	2481	3600	3200	3600
Mustard	763	1200	1350	1450

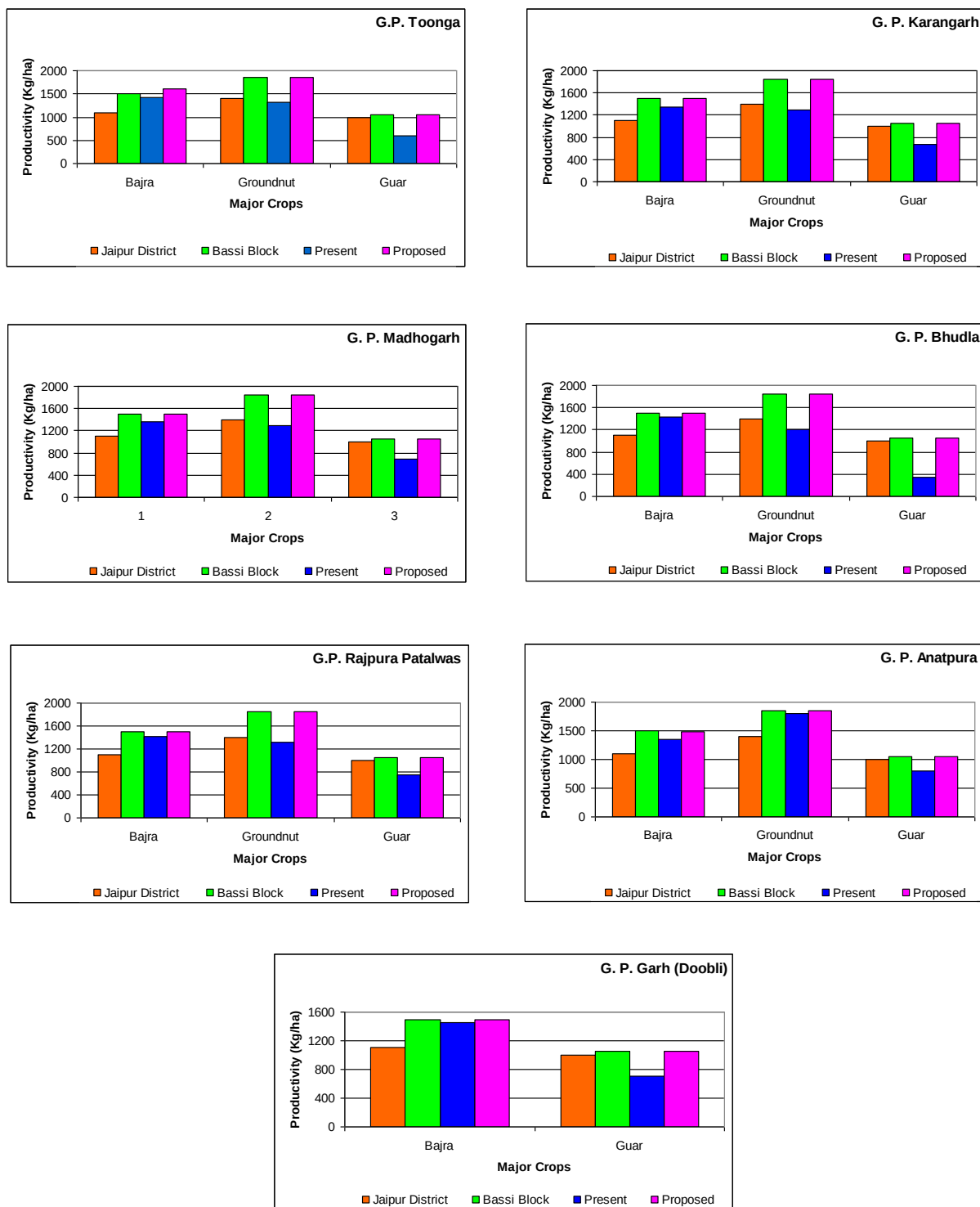


Figure 1 Comparison of Productivity of Major Crops Grown in Kharif Season with Average Productivity of Bassi Block and Jaipur District

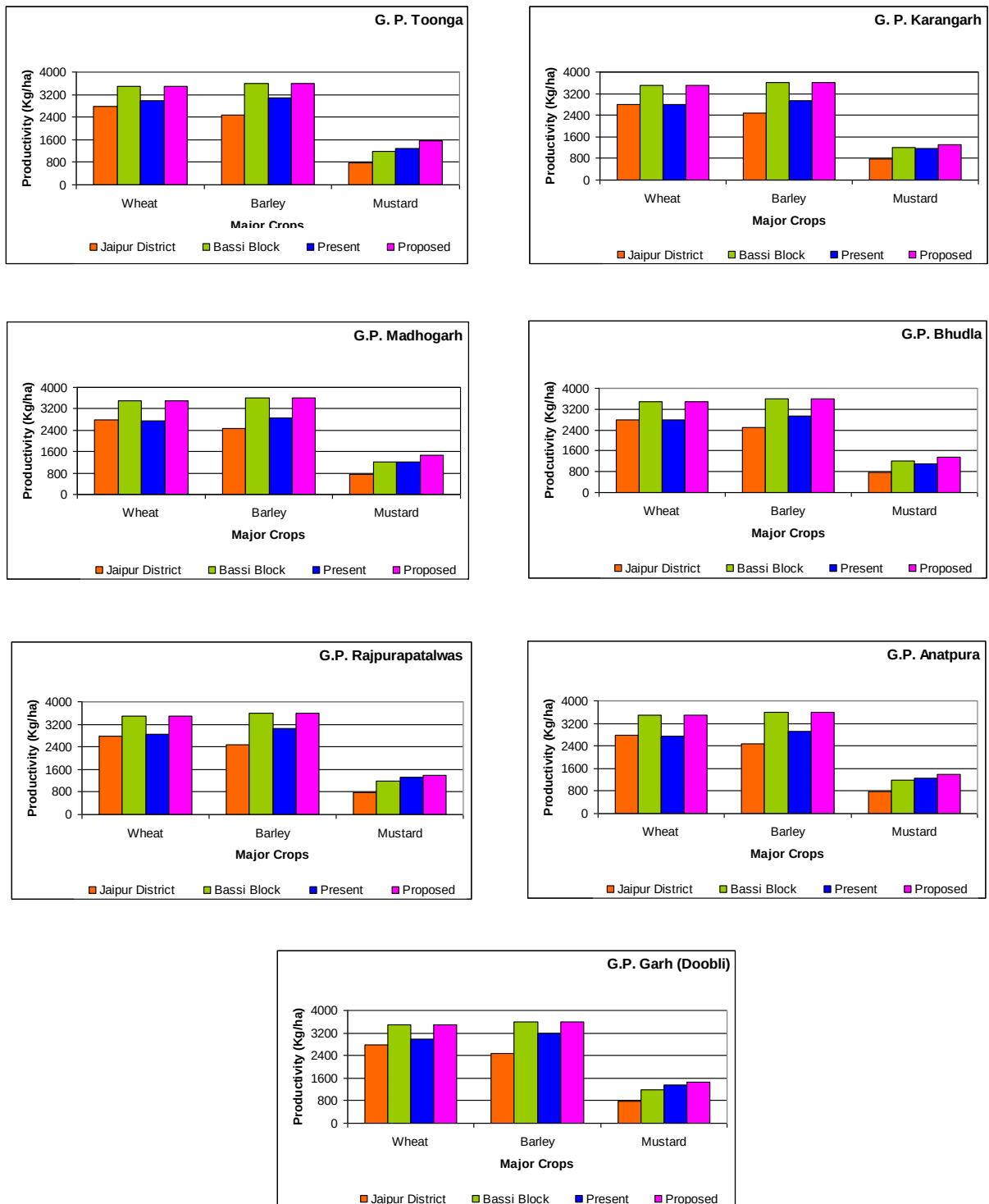


Figure 2 Comparison of Productivity of Major Crops Grown in Rabi Season with Average Productivity of Bassi Block and Jaipur District

2.3.3. Live Stock-gap of Fodder Availability:

The existing fodder area in the villages of proposed area is shown above. The availability of fodder in the proposed watershed area is less. To meet the requirement, the farmers of the area have to purchase from other places. The fodder area has to be increased to reduce the demand.

2.3.4. Livelihood and Micro enterprises:

The people of the area are dependent on Agriculture. In the proposed area the landless families are fully dependent on work. After introduction of NREGA, these families are getting job in the area. But it is not to the extent to increase the livelihood. For development of their livelihood, the various meetings were organized to know their interest and skills. According to social survey conducted in different villages of the project area, different individual and group works/activities like Ara Tari, Masala Udhyog, Tomato Sauce Preparation, Carpentry, Mobile Repairing, Motor Cycle Repairing, Compute Hardware/ Software work and Compost Pit/Vermi compost were identified. According to their interest homogeneous groups have been made. The main thrust was given for land less persons.

CHAPTER – III

3.1 Preparatory Phase activities:

The main objective of the preparatory phase is to create appropriate mechanism for adoption of participatory approach with the help of watershed development team. To establish the credibility of WDT team and to create a rapport with the villagers the entry point activities have been executed.

3.1.1. Entry Point Activities:

To find the urgent need of the local communities, the Gram Sabhas have been conducted at each Gram Panchayat. So that different works could be identified according to their need. The main theme of Entry Point Activities is to establish credibility of the Watershed Development Team and create a rapport with the village community. After identifying the different works in Gram Sabhas, the following works were executed:

S.No.	Gram Panchayat	Details of works		
			Name of works	Quantity
I.	Garh (Doobli)	1	Solar light	1 No.
		2	Water tank with Khel & Soak Pit	1 No.
II.	Madhogarh	1	Solar light	7 No.
		2	Hand Pump	1 No.
III.	Anatpura	1	Solar light	1 No.
		2	Protection wall at School	1 No.
IV	Toonga	1	Solar light	7 No.
		2	Hand pump	1 No.
		3	Hand pump with Soak Pit	2 No.
		4	Roof water harvesting structure at GP building	1 No.
		5	Plate form	1 No.
V.	Karan Garh	1	Solar light	8 No.
		2	Hand Pump	1 No.

S.No.	Gram Panchayat	Details of works		
		Name of works		Quantity
VI.	Bhudla	1	Water tank with khel & Soak pit	1 No.
		2	Hand pump	1 No.
		3	Plate form	1 No.
		4	Tube well	1 No.
VII	Rajpurapatalwas	1	Solar light	12 No.
		2	Hand pump	2 No.
		3	Khel and Soak Pit	1 No.
		4	Small water Tank, Khel and Soak Pit	1 No.

3.1.2. Capacity Building:

Capacity building is an important aspect for the successful implementation of watershed development programmes. The relevant training programme will be organized for all the functionaries involved in water shed development. It will be ensured at every level that a majority of the members of SHGs/UGs would be given basic training involving skill up gradation and orientation on the technical and organizational aspects.. Besides training on application on Remote Sensing Technology for generating database for watershed development will be included in the training programme. It has been finalized that the training will be organized by WDT members with the help of local officials of the technical departments. SHGs & UGs would also be taken for visits to Research Stations, demonstration of successful technologies that are relevant to them.

For participatory approach, water shed committee, user groups and self help groups have been formed at each gram panchayat level. During the phase, the watershed development team (4 members) which is also constituted and engaged in the project earlier will facilitate. The Gram Panchayat wise details of user groups, self help groups and water shed committee is shown in **Annexure I to III**. The capacity building of these different stakeholders on institutional and work related aspects are important part of the project.

3.1.3. PRA Exercise:

Participatory Rural Appraisal (PRA) is one of the most important exercise in Watershed Development Projects before preparation of Action Plan.. For the preparation of detailed project report Participatory Rural Appraisal exercise is very important part. The village wise PRA have been conducted with the help of WDT members. For each village separate maps have been prepared, showing all special features such as nallas, pasture land, roads, dhani's etc. The works have been identified according to beneficiaries need. The proposed works have been marked on these maps.

3.2. Natural Resource Management (NRM):

With the help of WDT, on the basis of the information generated from the bench mark survey of the watershed area and detailed PRA exercise, the detailed watershed development plan for each Gram Panchayat have been prepared. Watershed treatment/development plan have been prepared for all the arable and non arable land including degraded lands, government and community lands and private lands.

3.2.1. Conservation measures for arable lands:

The main problem of the area is the low and erratic rainfall. The conservation measures meant to reduce or prevent sheet erosion. The important principles to be kept in view while planning measures for proper conservation of water are increasing the time of concentration and thereby allowing more runoff water to be absorbed, intercepting the long slope into short ones and protection against damage due to excessive runoff. Bunding is the most effective and widely practiced field measures for controlling or preventing erosion. In broader way it can be defined as series of mechanical barriers across the land slope to break the slope length and also to reduce the slope percentage. Different types of bunds are contour bund, side bunds, lateral bund, graded bunds.

- a. Contour Bund:** Contour bunds are constructed along the contours. For the area having slope less than 6 percent and flatter lands with scanty /erratic rainfall contour bund is practiced to intercept the runoff by embankment whose ends may be closed or open to conserve moisture as well as to reduce the soil erosion. As per past experience the contour bunds can be adopted on all types of relatively permeable soils except the clayey or deep black cotton soils. The main criterion for spacing of bunds is to intercept the water before it reaches the erosive velocity. The most important factor of it is slope, cropping pattern, soil and conservation practice adopted. While planning of contour bund few things, which should be considered are: area is bifurcated according to slope, if distance between two bunds is more than additional bund should be provided in between them, lateral bunds/hooking should be extended up to the submerged length at both ends and vertical interval may be adjusted according to field boundaries.
- Side bund: bunds constructed at extreme ends of the contour bund, which are running along the slope and up to the submerged length.
 - Lateral bund: bund constructed along the slope in between two side bunds, to prevent concentration of water along one side and to break the length of contour bund.
- b. Waste weirs:** In order to protect the contour bunds from breaching and the standing crop from damage, masonry outlet structures which can drain away excess water, are constructed. The proper outlet/waste weirs are provided in the contour bunds alternate, to avoid gully formation and also to increase the travel path. Generally waste weirs are constructed at depressions with the crest of their body walls constructed at 0.3 m above the contour.
- c. Gully control structure:** In arable lands, where small rills/gullies have been formed, then the earthen bunds are constructed at regular intervals.
- d. Diversion channels:** Soil conservation measures are implemented on a whole catchment or watershed basis. In case if the watershed area falls below the unprotected area or hilly area from which uncertain amount of water comes and entered in the area, then the diversion channel is excavated to intercept the runoff from the area situated above and to conduct it safely to outlet.

3.2.2. Conservation measures for non arable lands:

The area which is unsuited to cultivation for agricultural crops and limit there use largely to pasture, forest requires the conservation measures. These waste lands have a great potential for producing fodder, fuel, fiber etc. To protect these lands from further degradation suitable soil and water conservation measures supplemented with proper afforestation is required.

- a. **Staggered trenches:** Staggered trenching is excavated trenching of shorter lengths in a row along the contour with interspace between them. In the alternate row, the trenches will be located directly below one another. The length of the staggered contour trenches will be 3 to 3.65 m with interspaces between them in the same row of about 2.4 to 3 m.
- b. **Ditch cum bund:** In the watershed area, the available pasture land will be protected by ditch cum bund. From the excavate soil of the trench the bund will be prepared inside the area along the trench, so that the animals can not step up from the trench and enter the area. From the point of view of cost and theft, the barbed wire fencing and stone fencing is avoided.
- c. **Pasture development:** To mitigate the fodder requirement, in every gram panchayat of the project area, at least one pasture development is proposed. The encroachment is the main problem of pasture development. The pasture land will be developed by fencing the area by ditch cum bund, constructing the staggered trenches across the slope according to availability, gully control structures (loose stone check dam, earthen bunds), construction of small talai/ponds, planting of different plants and grasses in between staggered trenches. The development of grasses ultimately reflected in the runoff and soil loss. The grass development action comprises of direct dispersion, interception, energy dissipation and evaporation of falling rain drops.

3.2.3 Drainage line treatment:

The drainage line treatment is very important part of the project.

- a. **Gully control structures:** Gully control structures consist of constructing bunds of suitable dimension across the nala or gullies to hold the runoff water. Depending upon the slope of the gully, these bunds are constructed in the series. The main thumb rule is the bottom of the structure should coincide with the top of the downstream one. The temporary storage of runoff against these bunds carries deposition of silt and the water is drained off in a controlled manner. The impounding of water facilitates the percolation of water, which otherwise will flow with intense velocity. The water released from the bunds will be free from silt and velocity to erode. Before it can acquire erosive velocity, it will meet the next bund below in the catchment.
- b. **Loose stone check dam:** The gully control structure will be constructed by locally available stone without any binding material. So these structures are called Loose Stone Check Dam. The gullies will be plugged by stone with height not more than 1 m with up stream slope, nearly vertical and down stream slope 1.5:1. The depth of foundation will be kept about 0.4 m and with about 0.6 m inside the natural ground on each side to prevent flood water out flanking the structure.
- c. **Concrete and masonry check Dam:** In some places where vegetative measures and simple practice alone are inadequate to handle the concentration of water, permanent masonry structures structure are provided. In the project area with the loose stone check dam these permanent masonry gully control structures have been proposed.
- d. **Bank stabilization:** The bank stabilization is very important part of controlling the table lands. The water from the side area/table land comes to the gully, which widen the gully. To protect the nalla/gully from widening and protecting the side land converting into the gullies, the marginal bund will be made on each side of the nalla. The loose stone check dam and masonry structures will be constructed at proper places for safe disposal of surplus water. In some places of the side of nalla, loose stone pitching have been provided to protect the sides from scouring.
- e. **Water harvesting structures Anicuts/Tanks:** With the introduction of NREGA, the ponds/ talai's have been constructed. Therefore small thrust has been given on

construction of ponds. The village wise position of existing anicut and Talai are as follows:

S.No.	Gram Panchayat/ Village	Anicut	Talai
I.	Karangarh		
1.	Nagrajpura	-	1
2.	Bhudarpura	-	-
3.	Ballupura	-	-
4.	Lalpura	-	1
II.	Anatpura		
1.	Ratanpura	-	-
2.	Biharipura	-	1
III.	Madhogarh		
1.	Gwalini	-	2
2.	Gumanpura	-	1
3.	Madhogarh	-	2
4.	Chak Madhogarh	-	-
5.	Dhauri		
IV.	Toonga		
1.	Siya Ka Bass	1	1
2.	Chak Toonga	-	-
3.	Toonga	-	3
4.	Akhepura	1	-
V.	Rajpura Patalwas		
1.	Dhingar Ka Bass	1	1
2.	Tekchandpura	2	2
3.	Charangarh	-	20
4.	Rajpurapatalwas	1	3
5.	Kho-Rajewala	-	1
6.	Tillpatti	-	1

S.No.	Gram Panchayat/ Village	Anicut	Talai
VII.	Bhudla		
1.	Rajwas	1	1
2.	Chak Rojwari	-	2
3.	Rojwari	-	2
4.	Baori Ka Bass	-	2
5.	Lalawala	-	2
6.	Bhudla	1	2
VIII.	Garh		
1.	Doobli	1	2
Total		9	52

3.3. Production System and Micro Enterprises:

3.3.1. Production measures for arable lands:

To get the more benefit from agriculture crop, it is very important to decrease the cost of cultivation and increase the production. To decrease the cost of cultivation, it is necessary to use complete available land for cultivation, use of latest implements so that time and cost is reduced. Good agriculture management by taking more than one crop in a year can also increase the production. Optimum quantity of fertilizer, insecticides and pesticides should be used. The reduction of chemical fertilizer will also increase the production.

For increasing production of crop, water management also plays an important role. The water should be used according to its quality and also crop should be irrigated according to need/requirement. The practice of Drip and Sprinkler irrigation will lead to optimum utilization of water.

In the State and Centre Sector schemes, for improvement in production level of different crops and minimize cost of cultivation, various schemes are organized by Agriculture/ Horticulture Department. The various schemes are:

- a. **Free seed minikit distribution:** Seed minikits of newly released varieties are distributed to small and marginal farmers for 0.1 to 0.2 hectare area with the purpose to increase in productivity of cereals, pulses and oilseeds and to increase Seed Replacement Rate by certified seeds. Minikits are distributed in Kharif season are improved hybrid varieties of Bajra, Guar and Groundnut, whereas in Rabi Season are Wheat, Barley, Gram and Mustard.
- b. **Crop demonstration:** Crop Demonstrations are layout for adoption of full package of technology practices in rural areas. The demonstration are organized for 0.4 hectare at each farmers field which have adequate irrigation facilities and take interest to show all technology practices recommended by Agriculture Department. The seed of improved quality are provided at 50 % cost to the farmers through RSSC/NSC and other inputs like fertilizers and plant protection chemicals are provided through KVSS or GSS on payment of 50 % on total cost of all inputs up to Rs. 2000 per demonstration. In Kharif season demonstration are taken for Guar, Bajra and in Rabi season demonstration are taken for wheat, Barley and Mustard.
- c. **Certified seed distribution:** Certified seed from RSSC/NSS are distributed in the area to improve SRR and ultimately increase in productivity of crops. The main aim is to increase in production level of different crops in scarce condition and to adopt dry farming practices by farmers by using high yielding varieties instead of local varieties. This is taken through KVSS/GSS and private dealers.
- d. **Subsidy on pipeline:** Presently the irrigation methods used by farmers are not so scientifically as flow system in which wastage of water are very high. The subsidies are given to the farmers on purchasing ISI-approved HDPE/PVC pipe line of 63 mm to 90 mm diameter. The subsidies are given to all categories of farmers at the rate of Rs. 18.75 per meter up to 800 meter per farmer.
- e. **Subsidy on gypsum:** To all categories of farmers, on the basis of soil testing report for reclamation of alkaline soils, the 50 % subsidy are given on total cost of Gypsum. Gypsum subsidy should also be given to the farmers growing Wheat, Pulses and Oilseed.
- f. **Establishment of farmers field school (FFS):** The farmers Field School are to be established on the compact block of 5 demonstration each of 0.4 hectare. In the FFS out of 5 demonstration farmers 25 other farmers are to be included. The total of 30 farmers

group which have interest to learn full scientific package of practices of crop production. Each FFS have five training days: before sowing of demonstration crop; after sowing and germination of demonstration crops; at the time of irrigation and weed control; at grain filling stage of crop: and at maturity stage of crop. Training is given by Agriculture Officer, Scientist and Lecturer. Farmers problem are given to research stations and improved practices of scientific Agriculture are given to the farmers.

- g. Soil and water testing:** Before every crop season like Kharif and Rabi, soil and water testing are to be done for evaluating the actual fertility position of field and requirement of fertilizer for irrigation. So that fertilizer quantity and quality are used as per recommendations given by laboratory for taking maximum production level in particular field and crop. Soil health card are given to the farmer having all recommendation of fertilizer for a whole year as they take all crop in Kharif and Rabi season.
- h. Subsidy on plant protection equipments:** 50 % subsidy are given to all categories of farmers on Plant Protection equipments like Knapsack Sprayer, Dusters, Foot Sprayer and Power Operated Sprayers of ISI mark and approved qualities.
- i. Subsidy on Agricultural Implements:** The subsidy are given to all categories of farmers on purchasing improved and new Agriculture Implements, 25-50 % subsidy are given according to quality of implement like hand operated hoeing implement, bullock drawn bund farmer, tractor drawn seed drill machine, chaff cutter, harrows, 2 and 3 disc plow having 25 % subsidy whereas three row bullock drawn seed drill, tractor drawn seed cum fertilizer drill, etc have 50 % subsidy.
- j. Horticulture (National Horticulture Mission):** Subsidy are given on inputs like seed, fertilizers and plant protection chemicals for growing spices and medicinal crops in the National Horticulture Mission by Horticulture Department. Such demonstrations are layed out in Methi, Chilli and Allovera crops. 50 % Subsidies are given on total cost of input used in the demonstration.
- k. Subsidy on sprinkler set:** For the effective irrigation in the sandy soils the sprinkler system were recommended to the farmers. From 0.5 to 5.0 hectares land holding, subsidy of 50 % on the cost of sprinkler set are given. Sprinkler set model vary according to land like for 1.0 hectare land there are 30 HDPE ISI approved pipe of 6 meter long and 3 meter pipe along 5 nozzle set and other accessories. Subsidy is given on the sprinkler set is 50

% or Rs. 7150, whichever is less. For 5.0 hectare land holding farmer, can purchase 60 pipes of 6 meter and 15 nozzle set with accessories having subsidy 50 % or Rs. 15500/- whichever is less.

- l. Subsidy on drip irrigation:** The drip irrigation is most effective and water saving irrigation method. Drip irrigation system can be installed for fruit orchard and for vegetable farming from 0.5 to 5.0 hectare land area. The subsidy is given up to 70 % of the total cost up to Rs. 23000 per hectare in orchard plantations and Rs. 114000 per hectares for vegetable farming.
- m. Subsidy on fruit orchard plantation:** Subsidy are given to the farmers for establishment of a new orchard systematically and in scientific way. There are 6 fruit plant can be taken in NHM, which are Anwla, Ber, Papaya, Citrus, Beel and Anar. The grafted seedlings are provided to the farmers on 75 % subsidy after which 75 % subsidy are given for fertilizer, Plant Protection Chemicals and for digging pits for planting. This subsidy varies from Rs. 22000 to 40000 per hectares for different fruit crops. Drip set subsidy is given separate for establishment in orchard.
- n. Establishment of Nursery:** Subsidy is given for establishing a module nursery in scientifically and propagation of fruit plant and sold to the farmers. 50 % on total cost, subsidies are given, which varies from Rs. 1.5 to 9.0 lacs for 4.0 hectares land area.
- o. Training for horticulture works:** The training are given to youth farmers interesting to learn horticulture works like grafting, budding and other horticulture works. Three months to one year training programme is held, according to the farmers choice and interest. The expenditure of the training is borne by horticulture department through National Horticulture Mission. The Krishi Vigyan Kendra) of each district, organizes the training programme.
- p. Vermicompost:** Vermicompost is an organic manure (bio-fertilizer) produced as the vermicast by earth worm feeding on biological waste material; plant residues. This compost is an odorless, clean, organic material containing adequate quantities of N, P, K and several micronutrients essential for plant growth. Vermicompost is a preferred nutrient source for organic farming. It is eco-friendly, non-toxic, consumes low energy input for composting and is a recycled biological product. In each Gram Panchayat of the

project area, 10-12 farmers will be selected. They will be trained with installing the vermicompost unit in their field.

During the project period the following targets of agriculture and horticulture activities have been proposed:

S.No.	Activity	Unit	Physical Target	Financial Target
A.	Agriculture			
1.	Free Seed Minitkit Distribution	Nos.	1221	
2.	Crop Demonstration	Nos.	94	1.88 lac
3.	Certified Seed Distribution	Nos.	1669	
4.	Subsidy on Pipe Line	Meter	15700	2.91 lac
5.	Subsidy on Gypsum	M.ton	490	3.41 lac
6.	Establishment of Farmers Field	Nos.	52	2.08 lac
7.	Soil and Water Testing and Distribution of Soil Health Card	Nos.	1446	
8.	Subsidy on Plant Protection Equipment	Nos.	113	0.46
9.	Subsidy on Agriculture Implement	No.	75	2.25
B.	Horticulture			
1	Medicinal Plant (Alovera)	Hect.	10	
2	Subsidy on Sprinkler	Nos.	98	6.93 lacs
3	Subsidy on Drip Irrigation	No.	49	49.00 lacs
4.	Subsidy on Fruit Orchard	Hect.	32	7.26 lacs

3.3.2. Production measures for non arable lands:

In government pasture land is developed by fencing the area by ditch cum bund and constructing the staggered trenches. In between the trenches grasses are grown and on down stream side of the trenches the forestry/fuel plants are grown. Along the ditch cum bunds the

forestry plants are also grown. In the area various plants like Khejdi, Ardoo, Shessam etc are grown.

The fuel plants on the bunds of the private lands are also grown with the consultation of the owner, so that cultivators can also get the fuel for his use. Similarly on the bunds the grasses are also grown so the beneficiaries can have the fodder for the livestock.

3.3.3 Livelihood activities particularly for asset less person:

In the project area according to the interest and need livelihood activities will be followed. In individual livelihood activity training of Masson, Motchi, Carpentry, Tailoring, Bike repairing etc work will be taken up so that their lives could be improved. The training programme of computer Hardware/Software, Mobile repairing work will also be planned according to the interest and education level of the educated young generation, so that with the seasonal agriculture income of their family, they can supplement the income during non agriculture season.

In every gram panchayat of the project area, the self help groups of land less persons have also been formed. These groups will be trained according to their interest on different activities like Ara Tari, Tomato Sauce Preparation, Honey Bee Production, Compost Pit, Pottery etc, so that their livelihood can be increased.

The groups will be trained on agriculture based activities like compost pit, vermi compost, pasture development etc according to their interest, so that they can prepare the product and can use on their own need and can sell surplus.

At the time of PRA, the people of the area have been acquainted with livestock based activities like milk collection booth, dairy, poultry etc.

CHAPTER IV

4. Technical Designs and Estimates for Proposed Activities:

4.1. Design of Contour Bunds:

For rolling and flatter lands, with scanty or erratic rainfall contour bund is practiced to intercept the runoff flowing down the slope, to conserve the moisture as well as to reduce soil erosion. To remove the excessive runoff, resulting from high intensity storm, surplussing arrangements have been provided wherever necessary.

Spacing of Contour Bunds:

Contour bunds can be adopted on all type of relatively permeable soils except the clayey or deep black cotton soils. For planning the bunds it is necessary to know how far these bunds should be installed. The main criterion for spacing of bunds is to intercept the water before it attains the excessive velocity. The most important factor of it is slope, soil, rainfall, cropping programme and conservation practices. The vertical interval between the bunds has been calculated by following formulae:

$$V.I. = 0.305 (XS + Y)$$

Where

V. I.	=	Vertical Interval (m)
X	=	Rainfall factor (as per following table)
Y	=	Infiltration and Crop Cover factor (as per following table)
S	=	Slope (%)

Value of X, the Rainfall Factor

Rainfall	Value of X	Annual Rainfall (cm)
Scanty	0.8	Less Than 64
Moderate	0.6	64-90
Heavy	0.4	Over 90

Source: Manual of Soil & Water Conservation Practices, Gurmel Singh, etc.

Value of Y, the Infiltration and Crop Cover Factor

Intake Rate	Crop Cover during Erosive Period of Rains	Value of Y
Below Average (e.g. black soils)	Low Coverage	1.0
Average or above	Good Coverage	2.0
One of the above factors favourable and the other unfavourable		1.5

Source: Manual of Soil & Water Conservation Practices, Gurmel Singh, etc.

Generally the Contour Bunds are made on same elevation, i.e. on contour and therefore, the grade is zero. Due to field boundaries, it is not possible to construct the bunds exactly on contours. The bunds will be constructed by adjusting the field boundaries. The horizontal interval between the bunds has been calculated by following formulae:

$$\text{H.I.} = \frac{\text{V.I.}}{\text{Slope (\%)}} \times 100$$

The height of impounding is calculated from following formulae:

$$\text{He} = \frac{(\text{Re} \times \text{V.I.})^{1/2}}{(50)^{1/2}}$$

Where

He = Depth of impounding near the bund (m)

Re = 24 hours rainfall excess (cm)

To the depth of impounding, depth of flow over the waste weir and free board is added. Then with the help of these the cross section of bund has been calculated.

With the help of elevation data of the area, water shed area is divided into different slope groups. The slope group wise map (**Map 2**), showing the different categories of slope has been prepared by SRSAC, Jodhpur.

From the above formulae the Horizontal and Vertical interval and length of bunds per hectare have been calculated for different slope groups.

Calculation of V.I. and H.I.:

X = 0.8, Y = 1.5 (From above Tables)

S.No.	Slope Group Range	Average Slope, S (%)	V.I. (m) 0.305 (XS + Y)	H.I. (m) V.I./S	Length per hectare (m)
1.	0 – 1	0.50	0.60	120	80
2.	1-3	2.00	0.95	50	200
3.	3-5	4.00	1.50	40	245
4.	5-10	7.50	2.3	30	332

Generally the Contour bund is provided on land having slope up to 6 %. As per slope group map generated by SRSAC, the area for different slope range has been calculated. As per above calculated per hectare bund length, the total length of contour bund have been estimated. Due to budget constraints and priority of other works, the length has been reduced. The Gram Panchayat wise area according to the slope range and proposed length of contour bund is calculated as follow:

S.No.	Gram Panchayat	Slope Range (%)	Estimated Area (ha)	Length per hectare (m)	Length (m)	Proposed Length (m)
1.	Toonga	0 -1	301	80	24080	9632
		1 -3	181	200	36200	14439
		3 – 5	90	245	22050	9000
		5 -10	30	332	9960	4000
Total			602		92290	37071
2.	Karangarh	0 -1	259	80	20720	5300
		1 -3	210	200	42000	10929
		3 – 5	66	245	16170	4290
		5 -10	17	332	5644	1400
Total			552		84534	21919

S.No.	Gram Panchayat	Slope Range (%)	Estimated Area (ha)	Length per hectare (m)	Length (m)	Proposed Length (m)
3.	Garh (Doobli)	0 -1	52	80	4160	998
		1 -3	68	200	13600	3181
		3 – 5	29	245	7105	1750
		5 -10	13	332	4316	1030
Total			162		29181	6959
4.	Madhogarh	0 -1	325	80	26000	8580
		1 -3	283	200	56600	18679
		3 – 5	78	245	19110	6435
		5 -10	21	332	6972	2287
Total			707		108682	35981
5.	Bhudla	0 -1	399	80	31920	8301
		1 -3	173	200	34600	8996
		3 – 5	86	245	21070	5591
		5 -10	7	332	2324	600
Total			665		89914	23488
6	Rajpura Patalwas	0 -1	485	80	38800	10864
		1 -3	315	200	63000	17640
		3 – 5	54	245	13230	3780
		5 -10	45	332	14940	4158
Total			899		129970	36442
7.	Anatpura	0 -1	133	80	10640	3890
		1 -3	55	200	11000	3852
		3 – 5	7	245	1715	700
		5 -10	0	332	0	0
Total			195		23355	8442

CHAPTER VII

7.1. Project Outcome:

By the end of the project, in the project area, it is expected that the water level in the wells increases considerably and sufficient water for man and animal would be available in the wells and ponds. The cropping intensity and productivity should be increased after the completion of the project. Few parameters which are expected to be increased after the completion of the project are as follow:

S.No	Parameters	Before Execution of Project	Expected Increase after the Completion of the Project
1.	Availability of water		
a.	Average Water Table	250 -300 ft	150 – 200 ft.
b.	Available Water in the	Tube Wells	Wells/ Tube Wells / Ponds
2.	Agriculture/Horticulture		
a.	Net Sown Area (ha)	5619	6300
b.	Net area sown more than once (ha)	2324	3500
c.	Production of Major Crops: - Wheat - Barley - Mustard - Bajara - Groundnut - Guar	2845 Kg/ha 3003 Kg/ha 1237 Kg/ha 1397 Kg/ha 1284 Kg/ha 698 Kg/ha	4500 Kg/ha 4000 Kg/ha 2000 Kg/ha 2500 Kg/ha 2200 Kg/ha 1200 Kg/ha
d.	Production of Rajka	33347 quintal	50288 quintal
e.	Average Production of Horticulture Plants	50 – 100 quintal	350-500 quintal (Different types of fruits plants Mango, Guava, Citrus, Ber, Papaya, etc)

S.No	Parameters	Before Execution of Project	Expected Increase after the Completion of the Project
3.	Live Stock		
a.	Milk Production	3 – 7 kg/animal	7 – 12 kg/animal
b.	Animal Diseases	By regular camps, the various diseases will be reduced	
4.	Livelihood		
a.	Average income of family by introduction of other micro enterprises	Rs. 2500-3000 per month	Rs. 4000 – 5000 per month
b.	SHG Groups	10	60 The various homogenous groups will be constituted and the training of different activities will be given, specially for land less families.

During the project period (5-7 years), the various activities will be done. The natural resource management activities will be done in between the project phase. The proposed NRM works in arable, non arable land and drainage line treatment will increase the water table, production of agriculture/horticulture crops. Similarly the livestock activities will increase the milk production. The year wise various outcomes of the project are as follows:

S. N.	Activity	Unit	Before Project	During the Project Period						
				I Yr	II Yr	III Yr	IV Yr	V Yr	VI Yr	VII Yr
1.	Engineering Structure									
a.	Contour Bund, CVH, Restoration of Old Structures, Gully Control Structure	Hect.	Nil			1000	2000	800		
b.	Earth Bunds, WHS, Anicut	No.	Nil							

S. N.	Activity	Unit	Before Project	During the Project Period						
				I Yr	II Yr	III Yr	IV Yr	V Yr	VI Yr	VII Yr
2.	Increase of Agriculture Production due to construction of above Engineering Structure									
a.	Rabi Season (Main Crops)									
	- Wheat - Barley - Mustard	Qtl/ha	28.45 30.03 12.37	29 30 13	29 31 13	35 32 14	37 34 15	39 36 16	40 38 18	40-45 38-40 18-20
b.	Kharif Season (Main Crops)									
	- Bajra - Guar - Ground Nut	Qtl/ha	13.97 6.98 12.84	12.5 7 13	12.5 7 13	14 8 14	15 8 16	18 9 17	20 10 18	20-25 10-12 18-22
3.	Water Table Depth									
	• May	m.	65			65	60	58	57	55
	• September	m.	58			58	58	56	55	53
	• December	m.	60			60	60	58	57	56
4.	Availability of Drinking Water		Dec.	Dec.	Dec.	Dec.	Jan.	Jan.	March	May
5.	Survival of Plants									
	• Horticulture Plants	Nos.	1000	1000	1000	2500	5000	8000	10000	10000
	• Forestry Plants	Nos.	450	450	450	1000	2500	4000	6000	6000
6.	Milk Production per animal									
	• Cow	Kg	4.5	4.5	4.5	5.5	5.5	6	7	7
	• Buffalo	Kg.	7.5	7.5	7.5	8	8	8	9	9
	• Goat	Kg	2.00	2.0	2.0	2.0	2.5	3	3	3
7.	Control on Migration	No.	Nil			10 %	30 %	40 %	70 %	80%

EPA ESTIMATE NO. 1

NAME OF WORK: CONSTRUCTION OF WATER TANK, KHEL AND SOAK PIT

A. WATER TANK

S.No.	Item	No	L (Ft)	B (Ft)	H (Ft)	Qty	Rate	Amount
1 (a)	नींव, खाई, परनाला में 1.5 गहराई तक मिट्टी की खुदाई करना, तल को कूटना, पानी डालना, बगल को संवारना, खुदी मिट्टी को बाहर निकालना, नींव भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर की दूरी तक निस्तारण करना साधारण/मुलायम मिट्टी में।	3.14	10.00	1.00	3.00	94.29		
		3.14	15.50	1.00	2.00	97.43		
						191.71		
					Cum	5.43	53.00	287.84
2	सीमेन्ट कांक्रीट नींव या फर्श में 40 मि. मी. नामीय माप की पत्थर मिट्टी/ईट मिट्टी, सीमेन्ट - रेत मसाला में 1 सीमेन्ट : 4 रेत : 8 मिट्टी अनुपात में मिलाकर डालना तथा कुटाई करना, तराई समेत।	3.14	10.00	1.00	0.50	15.71		
		3.14	15.50	1.00	0.50	24.36		
		0.785	9.50	9.50	0.333	23.615		
					Total	63.69		
	पत्थर की मिट्टी के साथ				Cum	1.80	1614.00	2911.91
3	नींव तथा कुर्सी में पत्थर की वे रद्दा-ढोका सीमेंट-बजरी 1 : 3, 1 : 6 या 1 : 8 मसाले में, मय बगल की शिरी बन्द करना तथा तराई आदि।	3.14	15.50	1.00	2.50	121.68		
	सीमेंट बजरी 1:6							
	Total					121.68		
					Cum	3.45	1307.00	4505.08
4	सेन्टरिंग-शटरिंग का आर.सी.सी. छत, स्लेब, बीम, छज्जे, लिन्टल आदि डालने के लिए लगाना 4.5 मीटर ऊंचाई तक के लिए तथा हटाना आदि विशेष विवरण के अनुसार।	Inner	3.14	9.50	15.00	447.86		
		Outer	3.14	11.00	15.00	518.57		
		Total				966.43		
					sqm	89.82	101.00	9071.49
5	आ.सी.सी काम के लिए लोहे को काटना, मोड़ना तथा स्थान पर लगाना तथा बांधने का कार्य मय आपूर्ति के।	10 mm dia	34.5	19.8	35	19.75	682.17	
						m	207.91	
						Kg	128.34	
		8mm	3	3.14	10		96.56	
		Binding	13	33	13	33	429.00	
							525.56	
						m	160.18	
						kg	63.28	
		Total				191.62	45.70	8757.19
						sqm	8.84	737.00
								6511.86
6	अवल दर्जे की पत्थर की पट्टियों की छत डालना, ऊपर तथा नीचे से जोड़ों में पत्थर की चौप के साथ 1:4 अनुपात में सीमेंट मसाले से भरना।	0.786	11.00	11.00		95.07		
7	सीमेंट प्लास्टर दीवार पर 1:4 अनुपात में सीमेंट-बजरी मिलाकर कर जोड़ों को कुरेदने तथा तराई सहित 25 मि.मी./20 मि.मी./12 मि.मी. में।	3.14	9.50	12.00		358.29		
		20 मि. मी.	3.14	11.00	13.00	449.43		
						807.71		
						sqm	75.07	83.00
								6230.51
8	सीमेंट कांक्रीट 1:1.5:3 मिश्रण की प्रचलित सीमेंट कांक्रीट में डालना तथा आपूर्ति करना, छत की स्लेब, छज्जे, बीम, लिंटल आदि में, दबाना, तराई करना तथा सतह को 1:3 सीमेंट मसाले से समतल करना आदि समेत परन्तु स्ट्रील तथा शटरिंग की कीमत अलग से।	3.14	10.25	0.75	15.00	362.41		
		flooring	0.79	9.50	9.50	0.50	35.46	
		Total				397.87		
						Cum	11.27	3145.00
								35447.27
9	90 मि.मी. औसत मोटाई में सीमेंट कांक्रीट दड़ जिसमें 1 भाग सीमेंट : 3 भाग बजरी तथा 6 भाग 12 मि.मी. नामीय एग्रीगेट मिलाकर आर.सी. सी. छत या पट्टी पर इस प्रकार डालना कि चाही गई दिशा में ढलान 1:60 का प्राप्त किया जा सके तथा विशेष विवरण के अनुसार 6 मि.मी. व्यास की छड़ों को दोनों दिशाओं में 25 से.मी. केन्द्र से केन्द्र जाल मध्य कांक्रीट में डालकर कांक्रीट को दबाना तथा तराई समेत।	0.786	10.5	10.5		86.63		
						sqm	8.05	362.00
								2914.34
9	फर्श के नीचे सूखे पत्थरों का खरंजा लगाना व आपूर्ति करना	0.786	9.50	9.50	0.75	53.18		
		3.14	12.00	2.00	0.75	56.52		
		Total				109.703036		
		Cum				3.11	483.00	1501.04
10	50 मि. मी. मोटाई में सीमेंट कंक्रीट 1:2:4 मिश्रण जिसमें 1 सीमेंट 2 बजरी 4 पत्थर की या ईट की 12 . मी. नामीय गिट्टी के साथ मिलाकर डालना, कूटना, दबाना तथा तराई आदि समेत। पत्थर की गिट्टी	3.14	13.00	3.00		122.57		
					sqm	11.39	167.00	1902.36
11	Providing & fixing Iron gate valve, tape 4Nos Pipe fittings etc							1000.00
TOTAL FOR WATER TANK								81040.90

S.No.	Item	No	L (Ft)	B (Ft)	H (Ft)	Qty	Rate	Amount
B. SOAK PIT								
1	नींव, खाई, परनाला में 1.5 गहराई तक मिट्टी की खुदाई करना, तल को कूटना, पानी डालना, बगल को संवारना, खुदी मिट्टी को बाहर निकालना, नींव भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर की दूरी तक निस्तारण करना।	0.79	2.75	2.75	15.00	77.25		
						77.25		
					Cum	2.19	61.00	133.45
	सख्त, चिकनी, कंकर मिट्टी में							
2	अव्वल दर्जे की पत्थर की पट्टियों की छत डालना, ऊपर तथा नीचे से जोड़ों में पत्थर की चौप के साथ 1:4 अनुपात में सीमेंट मसाले से भरना।	0.786	2.75	2.75		5.94		
					sqm	0.55	737.00	406.99
3	सीमेंट कांक्रीट 1:1.5:3 मिश्रण की प्रवर्तित सीमेंट कांक्रीट में डालना तथा आपूर्ति करना, छत की स्लेब, छज्जे, बीम, लिटल आदि में, दबाना, तराई करना तथा सतह को 1:3 सीमेंट मसाले से समतल करना आदि समेत परन्तु स्ट्रील तथा शटरिंग की कीमत अलग से।	3.14	2.75	0.34	12.00	35.26		
	flooring							
	Total					35.26		
					Cum	1.00	3007.00	3003.84
TOTAL FOR SOAK PIT								3544.27
C. KHEL								
1	नींव, खाई, परनाला में 1.5 गहराई तक मिट्टी की खुदाई करना, तल को कूटना, पानी डालना, बगल को संवारना, खुदी मिट्टी को बाहर निकालना, नींव भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर की दूरी तक निस्तारण करना।	2.00	17.00	2.00	2.50	170.00		
		2.00	2.50	2.00	2.50	25.00		
						195.00		
					Cum	5.52	61.00	336.87
	साधारण/मुलायम मिट्टी में							
	सख्त, चिकनी, कंकर मिट्टी में							
2	सीमेंट कांक्रीट नींव या फर्श में 40 मि. मी. नामीय माप की पत्थर मिट्टी/ईंट मिट्टी, सीमेंट - रेत मसाला में 1 सीमेंट : 4 रेत : 10 मिट्टी अनुपात में मिलाकर डालना तथा कुटाई करना, तराई समेत।	2.00	17.00	2.00	0.50	34.00		
		2.00	2.50	2.00	0.50	5.00		
					Total	39.00		
	पत्थर की मिट्टी के साथ				Cum	1.10	1614.00	1783.17
3	नींव तथा कुर्सी में पत्थर की वे रद्धा-ढोका सीमेंट-बजरी 1 : 3, 1 : 6 या 1 : 8 मसाले में, मय बगल की डिरी बन्द करना तथा तराई आदि।	2	17.00	2.00	2.00	136.00		
		2	2.50	2.00	2.00	20.00		
		1	16.50	1.00	4.00	66.00		
		1	16.50	1.00	3.00	49.50		
	सीमेंट बजरी 1:6	2	4.00	1.00	3.50	28.00		
	Total					299.50		
					Cum	8.48	1307.00	11086.00
4	सीमेंट प्लास्टर दीवार पर 1: 6 अनुपात में सीमेंट-बजरी मिलाकर कर जोड़ों को कुरेदने तथा तराई सहित 20 मि.मी.में।	1	16.50	4.00		66.00		
		2	16.50	3.00		99.00		
		4	4.00	3.50		56.00		
						221.00		
					sqm	20.54	71.00	1458.27
5	फर्श के नीचे सूखे पत्थरों का खरंजा लगाना व आपूर्ति करना	1.000	15.00	4.00	0.75	45.00		
		0	10.85	2.00	0.50	0.00		
	Total					45		
	Cum					1.27	483.00	615.72
6	50 मी. मी. मोटाई में सीमेंट कंक्रीट 1:2:4 मिश्रण जिसमें 1 सीमेंट 2 बजरी 4 पत्थर की या ईंट की 12 . मी. नामीय मिट्टी के साथ मिलाकर डालना, कूटना, दबाना तथा तराई आदि समेत।	1	15.00	4.00		60.00		
						60.00		
					sqm	5.58	167.00	931.37
TOTAL FOR KHEL								16211.40
GRAND TOTAL								100796.57
SAY								1,00,000

EPA ESTIMATE NO. 2

NAME OF WORK: CONSTRUCTION OF BOUNDRY WALL OF GOVT. MIDDLE SCHOOL RATANPURA

S.No.	Item	No	L (Ft)	B (Ft)	H (Ft)	Qty(CUft)	Rate	Amount
1	नींव, खाई, परनाला में 1.5 गहराई तक मिट्टी की खुदाई करना, तल को कूटना, पानी डालना, बगल को संवारना, खुदी मिट्टी को बाहर निकालना, नींव भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर की दूरी तक निस्तारण करना। सख्त, चिकनी, कंकर मिट्टी में	1	129.00	2.00	2.00	516.00		
	Total					516.00		
					Cum	14.62	61.00	891.67
2	सीमेन्ट कांक्रीट नींव या फर्श में 40 मि. मी. नामीय माप की पत्थर गिट्टी/ईट गिट्टी, सीमेन्ट - रेत मसाला में 1 सीमेन्ट : 4 रेत : 8 गिट्टी अनुपात में मिलाकर डालना तथा कुटाई करना, तराई समेत।	1	129.00	2.00	0.50	129.00		
	पत्थर की गिट्टी के साथ					129.00		
					Cum	3.65	1614.00	5898.19
3	नींव तथा कुर्सी में पत्थर की वे रद्धा-ढोका सीमेंट-बजरी 1 : 3, 1 : 6 या 1 : 8 मसाले में, मय बगल की झिरी बन्द करना तथा तराई आदि।	1	129.00	1.50	2.00	387.00		
	सीमेंट बजरी 1:6				Total	387.00		
					Cum	10.96	1307.00	14328.87
4	अधिरचना में पत्थर के खम्बे वर्गाकार या आयताकार 90 से. मी. लम्बाई तक।	4	1.50	1.50	4.50	40.50		
					Total	40.50		
	सीमेंट बजरी 1:6				Cum	1.15	1603.00	1839.14
5	अधिरचना में पत्थर की वे रद्धा-ढोका सीमेंट-बजरी 1 : 3, 1 : 6 या 1 : 8 मसाले में, मय बगल की झिरी बन्द करना तथा तराई आदि। (30 से.मी. से कम मोटाई के लिये)	1	123	1.0	4.50	553.50		
					Total	553.50		
					Cum	15.68	1387.00	21748.00
6	सीमेंट प्लास्टर दीवार पर 1:4 अनुपात में सीमेंट-बजरी मिलाकर जोड़ों को कुरेदने तथा तराई समेत 20 मी. मी.।	1	129.00	4.50		580.50		
					Total	580.50		
					sqm	53.95	83.00	4477.83
7	50 मी. मी. मोटाई में सीमेंट कंक्रीट 1:2:4 मिश्रण जिसमें 1 सीमेंट 2 बजरी 4 पत्थर की या ईट की 12 . मी. नामीय गिट्टी के साथ मिलाकर डालना, कूटना, दबाना तथा तराई आदि समेत।	1	129.00	1.00		129.00		
					sqm	11.99	167.00	2002.14
						Grand Total Rs		51185.84
						Say Rs		51000.00

EPA ESTIMATE NO. 3

NAME OF WORK: CONSTRUCTION OF HAND PUMP

S.NO.	PARTICULARS	QNTY	UNIT	Rate	Amount	
1A	Construction of tube-well from ground level and upto 100mtr depth and above to accommodate casing pipe of following sizes in all type of soil in alluvium strata by bailing method and without gravel packing as per is:2800(part-1&2)1979 specification (the work includes formation of cavity well at bottom by development with appropriate air compressor or bailer pumping and also lowering of casing pipe but excluding cost of the casing pipe.The tube-well should have a thought bore as per nominal bore of casing pipe.The work would be completed after obtaining sand free water.) 125mm dia nominal bore	47	M.	216 per/mtr	Rs.	10152
1B	construction of tube-well up to 100m depth&above in all type or rocks by DTH system&overburden the work would be completed after obtaining sand free water ,125mm dia nominal bore	53	M.	297 per/mtr	Rs.	15741
2	Supply of erw ms black casing pipe ISI marked (IS:4270/1992) of grade fe:410 of following size at site of work 125 mm dia nominal bore outer dia 141.3 mm thikness of pipe 5 mm (Casing pipe should be 5.12 kg in per feet)	47	M.	652.5 per/mtr	Rs.	30667.5
3	Supplying and installation of 32 mm dia GI pipe medium class ISI marked in 3 mtr length including fitting all accessories and fittings required for instalation of handpump	61	M.	225 per/mtr	Rs.	13725
4	Supplying of india marked second handpump set complete ISI marked with sylinder and ten connecting rods etc ISI	1	Each	5850 Each	Rs.	5850
5	Construction of 185 cm dia plateform as per approved design and drowing of UNICEF	1	Each	1980 Each	Rs.	1980
6	Installation of INDIA marked second handpump complete on existing plateform	1	Each	630 Each	Rs.	630
7	Add for extra for connecting rods	10	Each	112.5 Each	Rs.	1125
TOTAL					Rs.	79870.5
					SAY	80000

EPA ESTIMATE NO. 4

NAME OF WORK: CONSTRUCTION OF SAFTY WALL & CHABUTRA

S.No.	Item	No	L (Ft)	B (Ft)	H (Ft)	Qty	Rate	Amount
1	नींव, खाई, परनाला में 1.5 गहराई तक मिट्टी की खुदाई करना, तल को कूटना, पानी डालना, बगल को संवारना, खुदी मिट्टी को बाहर निकालना, नींव भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर की दूरी तक निस्तारण करना।	1.00	32.00	2.00	2.00	128.00		
		1.00	23.00	19.00	1.00	437.00		
						565.00		
					Cum	16.00	61.00	976.07
	साधारण/मुलायम मिट्टी में							
	सख्त, चिकनी, कंकर मिट्टी में							
2	सीमेन्ट कांक्रीट नींव या फर्श में 40 मि. मी. नामीय माप की पत्थर गिट्टी/ईट गिट्टी, सीमेन्ट – रेत मसाला में 1 सीमेन्ट : 4रेत : 10 गिट्टी अनुपात में मिलाकर डालना तथा कुटाई करना, तराई समेत।	1.00	32.00	2.00	0.50	32.00		
		1.00	23.00	19.00	0.50	218.50		
					Total	250.50		
					Cum	7.10	1614.00	11453.46
3	नींव तथा कुर्सी में पत्थर की वे रद्धा-ढोका सीमेंट-बजरी 1 : 3, 1 : 6 या 1 : 8 मसाले में, मय बगल की झिरी बन्द करना तथा तराई आदि।	1	32.00	2.00	1.50	96.00		
		1	21.00	1.00	1.50	31.50		
					Total	127.50		
4	सीमेंट प्लास्टर दीवार पर 1: 4 अनुपात में सीमेंट-बजरी मिलाकर कर जोड़ों को कुरेदने तथा तराई सहित 20 मि. मी.में।	1	23.50	19.00		446.50		
		2	21.00	1.50		63.00		
						509.50		
					sqm	47.35	83.00	3930.16
6	50 मी. मी. मोटाई में सीमेंट कंक्रीट 1:2:4 मिश्रण जिसमें 1 सीमेंट 2 बजरी 4 पत्थर की या ईट की 12 . मी. नामीय गिट्टी के साथ मिलाकर डालना, कूटना, दबाना तथा तराई आदि समेत।	0.79	15.00	15.00		176.63		
		0.79	9.60	9.60		72.35		
		1	23.50	19.00		446.50		
						446.50		
					sqm	41.50	167.00	6930.91

Grand Total Rs 28010.01
Say 28000.00

EPA ESTIMATE NO. 5

NAME OF WORK: CONSTRUCTION OF KHEL

S.No.	Item	No	L (Ft)	B (Ft)	H (Ft)	Qty	Rate	Amount
1	नींव, खाई, परनाला में 1.5 गहराई तक मिट्टी की खुदाई करना, तल को कूटना, पानी डालना, बगल को संवारना, खुदी मिट्टी को बाहर निकालना, नींव भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर की दूरी तक निस्तारण करना, सख्त, चिकनी, कंकर मिट्टी में	2	20.00	2.00	2.50	200.00		
		2	5.50	2.00	2.50	55.00		
						255.00		
					Cum	7.22	61.00	440.53
2	सीमेन्ट कांक्रीट नींव या फर्श में 40 मि. मी. नामीय माप की पत्थर गिट्टी/ईंट गिट्टी, सीमेन्ट – रेत मसाला में 1 सीमेन्ट : 4रेत : 10 गिट्टी अनुपात में मिलाकर डालना तथा कुटाई करना, तराई समेत। पत्थर की गिट्टी के साथ							
		2	20.00	2.00	0.50	40.00		
		2	5.50	2.00	0.50	11.00		
		1	6.50	18.00	0.50	58.50		
					Total	109.50		
			Cum	3.10	1614.00	5006.60		
3	नींव तथा कुर्सी में पत्थर की वे रद्धा-ढोका सीमेंट-बजरी 1 : 3, 1 : 6 या 1 : 8 मसाले में, मय बगल की झिरी बन्द करना तथा तराई आदि।							
		2	20.00	2.00	2.00	160.00		
		2	5.50	2.00	2.00	44.00		
		1	19.50	1.00	4.00	78.00		
		1	19.50	1.00	2.50	48.75		
	सीमेंट बजरी 1:6	2	6.50	1.00	3.25	42.25		
	Total					373.00		
				Cum	10.56	1307.00	13806.60	
4	सीमेंट प्लास्टर दीवार पर 1: 4 अनुपात में सीमेंट-बजरी मिलाकर कर जोड़ों को कुरेदने तथा तराई सहित 20 मि.मी.में।	2	19.50	4.00		156.00		
		2	19.50	2.50		97.50		
		4	6.50	3.25		84.50		
						338.00		
					sqm	31.41	83.00	2607.25
5	50 मी. मी. मोटाई में सीमेंट कंक्रीट 1:2:4 मिश्रण जिसमें 1 सीमेंट 2 बजरी 4 पत्थर की या ईंट की 12 मी. नामीय गिट्टी के साथ मिलाकर डालना, कूटना, ढराना तथा तराई आदि समेत।	0.79	15.00	15.00		176.63		
		0.79	9.60	9.60		72.35		
		1	6.50	18.00		117.00		
						117.00		
					sqm	10.88	167.00	1816.16
Grand Total Rs								23677.14
Say								23700.00

EPA ESTIMATE NO. 6

NAME OF WORK: CONSTRUCTION OF ROOFTOP RAINWATER HARVESTING STRUCTURE

S.No.	Item	No	L (Ft)	B (Ft)	H (Ft)	Qty	Rate	Amount
1	नींव, खाई, परनाला में 1.5 गहराई तक मिट्टी की खुदाई करना, तल को कूटना, पानी डालना, बगल को संवारना, खुदी मिट्टी को बाहर निकालना, नींव भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर की दूरी तक निस्तारण करना। सख्त मिट्टी में	1	3.00	3.00	5.00	45.00		
		0.785	3.00	3.00	5.00	35.33		
		1	7.50	5.50	7.00	288.75		
		0.785	3.00	3.00	15.00	105.98		
						475.05		
					Cum	13.46	61.00	820.91
2	सीमेन्ट कांक्रीट नींव या फर्श में 40 मि. मी. नामीय माप की पत्थर गिट्टी/ईट गिट्टी, सीमेन्ट - रेत मसाला में 1 सीमेन्ट : 4 रेत : 8 गिट्टी अनुपात में मिलाकर डालना तथा कुटाई करना, तराई समेत।	1	3.00	3.00	0.50	4.50		
		1	3.00	3.00	0.50	3.53		
		1	7.50	5.50	0.50	20.63		
					Total	28.66		
	पत्थर की गिट्टी के साथ				Cum	0.81	1614.00	1310.29
3	नींव तथा कुर्सी में प्रथम श्रेणी ईंटों की चिनाई सीमेंट-बजरी 1:6 मसाले में, मय बगल की झिरी बन्द करने तथा तराई समेत।	2	3.00	0.75	4.50	20.25		
		2	3.00	0.75	4.50	18.00		
		2	7.50	0.75	6.00	67.50		
		2	4.00	0.75	6.00	36.00		
		Total				141.75		
					Cum	4.02	1589.00	6380.76
4	Providing & Fixing Precasted Cemented rings of 3' dia & 18" ht.	11				11.00	450.00	4950.00
5	Providing and Fixing Unplasticized PolyVinylChloride(UPVC) SWR Pipes TypeB for scil and waste discharges ystem(IS:13592:1992Marked) of approved quality.							
		75 mm dia				26.00	100.00	2600.00
		110 mm dia				11.00	200.00	2200.00
		160 mm dia				15.00	235.00	3525.00
6	अव्वल दर्जे की पत्थर की पट्टियों की छत डालना, ऊपर तथा नीचे से जोड़ों में पत्थर की चीप के साथ 1:4 अनुपात में सीमेंट मसाले से भरना।	1	3.00	3.00		9.00		
		0.785	4.50	4.50		15.90		
		1	7.50	5.50		41.25		
		0.785	4.50	4.50		15.90		
						82.04		
					sqm	7.62	737.00	5619.45
7	50 मि. मी. मोटाई में सीमेंट कंक्रीट 1:2:4 मिश्रण जिसमें 1 सीमेंट 2 बजरी 4 पत्थर की या ईट की 12 मि. मी. नामीय गिट्टी के साथ मिलाकर डालना, कूटना, दबाना तथा तराई आदि समेत। पत्थर की गिट्टी	2	3.00	3.00		18.00		
		2	6.00	4.00		48.00		
		1	3.00	3.00		9.00		
		2	4.50	4.50		40.50		
						115.50		
					sqm	10.73	167.00	1792.61
8	Supplying & Installation of india marked second hand pump set complete ISI marked							
		1				1.00	1500.00	1500.00
9	सीमेंट प्लास्टर दीवार पर 1:4 अनुपात में सीमेंट-बजरी मिलाकर कर जोड़ों को कुरेदने तथा तराई सहित 20 मि.मी. में।	2	3.00	4.50		27.00		
		2	3.00	4.00		24.00		

S.No.	Item	No	L (Ft)	B (Ft)	H (Ft)	Qty	Rate	Amount
		2	6.00	6.00		72.00		
		2	4.00	6.00		48.00		
						171.00		
					sqm	15.89	83.00	1319.05
Grand Total Rs								32018.07
Say								32000.00

EPA ESTIMATE NO. 7

NAME OF WORK: CONSTRUCTION OF WATER TANK, KHEL AND SOAK PIT

A. WATER TANK

S.No.	Item	No	L (Ft)	B (Ft)	H (Ft)	Qty	Rate	Amount
2	अव्वल दर्जे की पत्थर की पट्टियों की छत डालना, ऊपर तथा नीचे से जोड़ों में पत्थर की चीप के साथ 1:4 अनुपात में सीमेंट मसाले से भरना।	0.786	3.00	3.00		7.07		
					sqm	0.66	737.00	484.35
3	PRECASTED CEMENT FERMA OF DIA 3' & HT. 2' SUPPLY & FIXING							
	Total							
					Cum	4.00	1250.00	5000.00
TOTAL FOR WATER TANK								5484.35

B. CHABUTRA

1	सीमेन्ट कांक्रीट नींव या फर्श में 40 मि. मी. नामीय माप की पत्थर गिट्टी/ईट गिट्टी, सीमेन्ट – रेत मसाला में 1 सीमेन्ट : 4रेत : 10 गिट्टी अनुपात में मिलाकर डालना तथा कुटाई करना, तराई समेत।	1.00	6.00	7.00	0.50	21.00		
		1.00	5.50	4.00	0.50	11.00		
					Total	32.00		
	पत्थर की गिट्टी के साथ				Cum	0.91	1614.00	1463.12
2	50 मि. मी. मोटाई में सीमेंट कंक्रीट 1:2:4 मिश्रण जिसमें 1 सीमेंट 2 बजरी 4 पत्थर की या ईट की 12 मि. नामीय गिट्टी के साथ मिलाकर डालना, कूटना, दबाना तथा तराई आदि समेत।	1.00	5.50	4.00		22.00		
		1	6.00	7.00		42.00		
						64.00		
					sqm	5.95	167.00	993.46
TOTAL FOR CHABUTRA								2456.57

C. KHEL

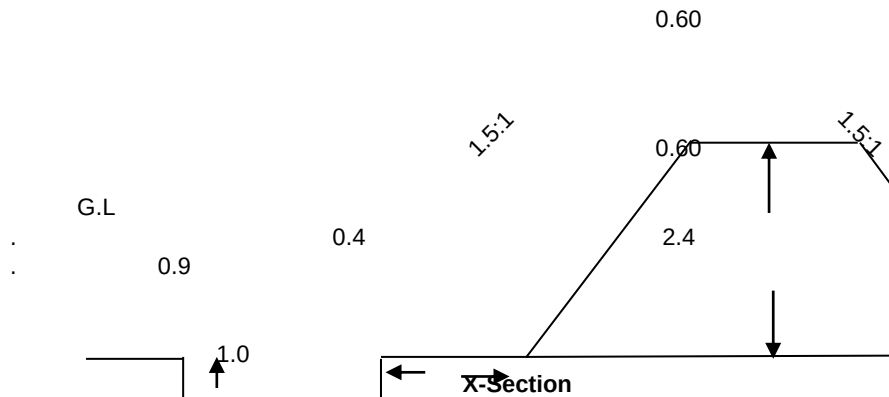
1	नींव, खाई, परनाला में 1.5 गहराई तक मिट्टी की खुदाई करना, तल को कूटना, पानी डालना, बगल को संवारना, खुदी मिट्टी को बाहर निकालना, नींव भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर की दूरी तक निस्तारण करना।	1.00	20.00	2.00	2.00	80.00		
		2.00	2.50	2.00	2.00	20.00		
						100.00		
					Cum	2.83	61.00	172.76
	साधारण/मुलायम मिट्टी में							
	सख्त, चिकनी, कंकर मिट्टी में							
2	सीमेन्ट कांक्रीट नींव या फर्श में 40 मि. मी. नामीय माप की पत्थर गिट्टी/ईट गिट्टी, सीमेन्ट – रेत मसाला में 1 सीमेन्ट : 4रेत : 10 गिट्टी अनुपात में मिलाकर डालना तथा कुटाई करना, तराई समेत।	1	20.00	2.00	0.50	20.00		
		2	2.50	2.00	0.50	5.00		
		1.000	18.00	3.00	0.50	27.00		
					Total	52.00		
	पत्थर की गिट्टी के साथ				Cum	1.47	1614.00	2377.56
3	नींव तथा कर्सी में पत्थर की वे रद्धा-ढोका							

S.No.	Item	No	L (Ft)	B (Ft)	H (Ft)	Qty	Rate	Amount
	सीमेंट-बजरी 1 : 3, 1 : 6 या 1 : 8 मसाले मे, मय बगल की झिरी बन्द करना तथा तराई आदि।	1	20.00	2.00	1.50	60.00		
		2	2.50	2.00	1.50	15.00		
		1	19.50	1.00	2.50	48.75		
	सीमेंट बजरी 1:6	2	2.50	1.00	3.00	15.00		
	Total					138.75		
					Cum	3.93	1307.00	5135.83
4	सीमेंट प्लास्टर दीवार पर 1: 4 अनुपात मे सीमेंट-बजरी मिलाकर कर जोड़ों को कुरेदने तथा तराई सहित 20 मि.मी.में।	3	19.50	2.50		146.25		
		4	3.00	3.00		36.00		
						182.25		
					sqm	16.94	83.00	1405.83
6	50 मी. मी. मोटाई में सीमेंट कंक्रीट 1:2:4 मिश्रण जिसमें 1 सीमेंट 2 बजरी 4 पत्थर की या ईट की 12 . मी. नाभीय गिट्टी के साथ मिलाकर डालना, कूटना, दबाना तथा तराई आदि समेत ।	1	18.00	3.00		54.00		
						54.00		
					sqm	5.02	167.00	838.23
	TOTAL FOR KHEL							9930.21
	GRAND TOTAL							17871.14
	SAY							18000.00

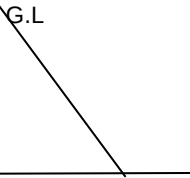
ESTIMATE NO. 8

NAME OF WORK: CONSTRUCTION OF CONTOUR BUND TYPE "A"

Cross section of bund - 0.9 sqm				
For lenth 100 M.				
S.No.	Item	Quantity	Unit	Rate
1	Dag belling work up to 5-7 cm depth	400	Rm	0.25
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	90	Cum	85.00
3	Sowing of seed on bunds	300	Rm	0.59
4	Grass seed			
	Dhaman/Stylohemata	1	LS	40.00
	Sub Total			
5	Contingency @ 3 %			
	Grand Total			
			Say	8206
Per. M. Cost				82.00



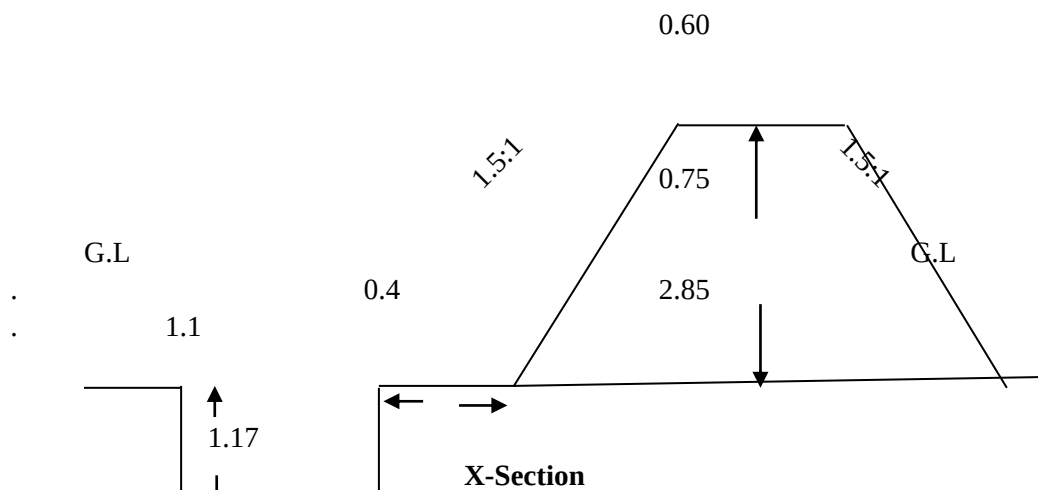
Amount
100.00
7650.00
177.00
40.00
7967.00
239.01
8206.01



ESTIMATE NO. 9

NAME OF WORK: CONSTRUCTION OF CONTOUR BUND TYPE "B"

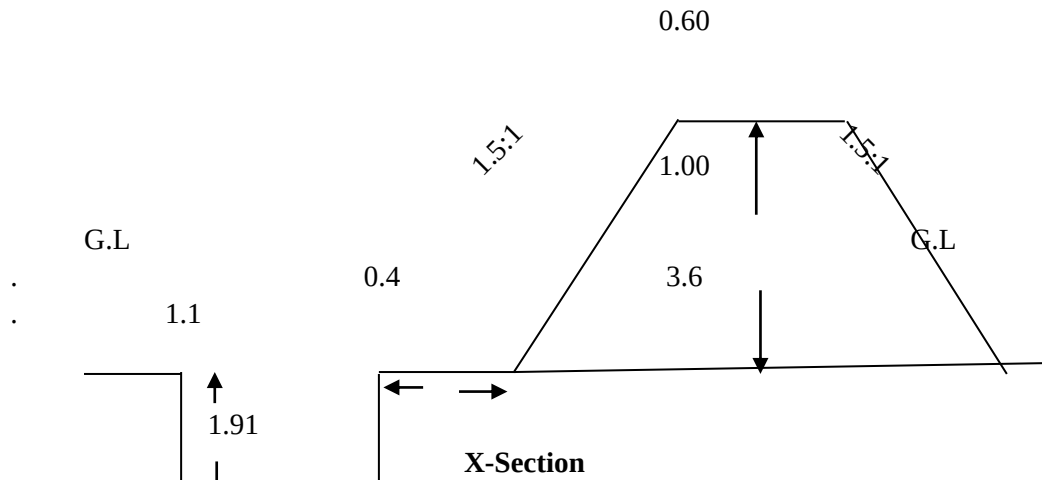
Cross section of bund - 1.29 sqm					
For lenth 100 M.					
S.no.	Item	Quantity	Unit	Rate	Amount
1	Dag belling work up to 5-7 cm depth	400	Rm	0.25	100.00
2	Earth work in hard soil for construction of bund including ramming compaction and dressing up to the lead of 50m and lift 1.5 m	129	Cum	85.00	10965.00
3	Sowing of seed on bunds	400	Rm	0.59	236.00
4	Grass seed				
	Dhaman/Stylohemata	1	LS	40.00	40.00
	Sub Total				11241.00
5	Contingency @ 3 %				337.23
	Grand Total				11578.23
			Say	11578	
Per. M. Cost				116.00	



ESTIMATE NO. 10

NAME OF WORK: CONSTRUCTION OF CONTOUR BUND TYPE "C"

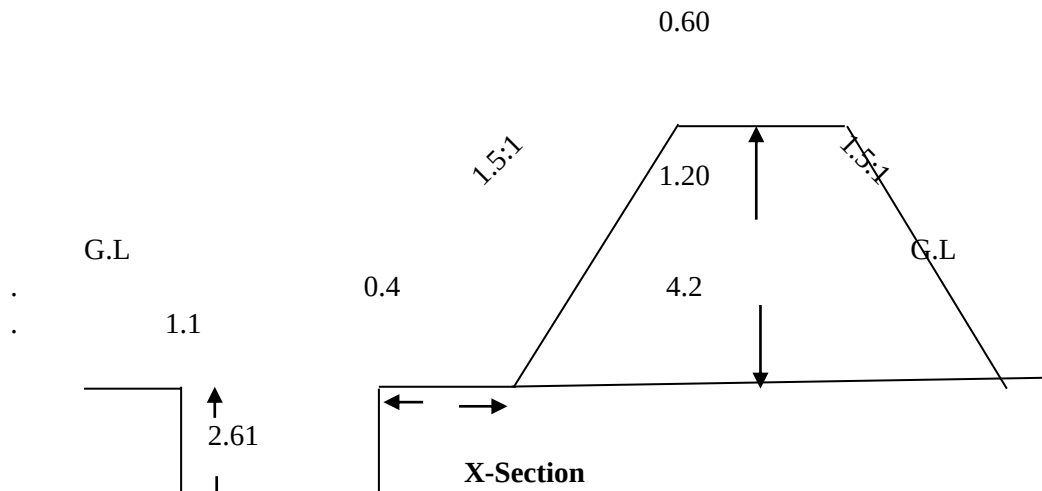
Cross section of bund - 2.1 sqm					
For lenth 100 M.					
S.no.	Item	Quantity	Unit	Rate	Amount
1	Dag belling work up to 5-7 cm depth	400	Rm	0.25	100.00
2	Earth work in hard soil for construction of bund including ramming compaction and dressing up to the lead of 50m and lift 1.5 m	210	Cum	85.00	17850.00
3	Sowing of seed on bunds	500	Rm	0.59	295.00
4	Grass seed				
	Dhaman/Stylohemata	1	LS	40.00	40.00
		Sub Total			18185.00
5	Contingency @ 3 %				545.55
		Grand Total			18730.55
			Say	18731	
Per. M. Cost				187.00	



ESTIMATE NO. 11

NAME OF WORK: CONSTRUCTION OF CONTOUR BUND TYPE "D"

Cross section of bund - 2.88 sqm					
For length 100 M.					
S.no.	Item	Quantity	Unit	Rate	Amount
1	Dag belling work up to 5-7 cm depth	400	Rm	0.25	100.00
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	288	Cum	85.00	24480.00
3	Sowing of seed on bunds	600	Rm	0.59	354.00
4	Grass seed				
	Dhaman/Stylohemata	1	LS	40.00	40.00
		Sub Total			24874.00
5	Contingency @ 3 %				746.22
		Grand Total			25620.22
			Say	25620	
Per. M. Cost				256.00	



ESTIMATE NO. 12

NAME OF WORK: CONSTRUCTION OF BUND WASTE WEIR

S.No.	Item	Part	No.	L	W	H/D	Qty	Unit	Rate	Amount
1	Excavation in hard soil disposal of excavated material within initial lead of 30 m and lift of 1.5 m dressing etc.	HW	1	4.20	2.50	0.30	3.15			
		Total E/W					3.15	Cum	82.00	258.30
2	Dry stone masonry for~	SW	2	2.40	0.30	1.50	3.15			
		Apron/ foundatio	1	4.20	1.90	0.30	2.39			
		apron	1	4.20	1.90	0.15	1.20			
		Sub total					6.74	Cum	781.00	5264.72
3	Rehandling and carriage of stone by head load or animal transport including loading and unloading for lead up to 200m						6.74	Cum	47.00	316.83
4	Contingency @ 3 %									175.20
Total										6015.04

Rates are taken from Dar Anusuchie 2011, ZP Jaipur,

Say Rs. 6000 /- only

ESTIMATE NO. 13

NAME OF WORK: CONSTRUCTION OF WASTE WEIR TYPE "A"

क्र. सं.	कार्य विवरण	इकाई	दर सामग्री सहित	राशि
1	नींव, खाई, परनाला में 1.5 गहराई तक मिट्टी की खुदाई करना, तल को कूटना, पानी डालना, बगल को संवारना, खुदी मिट्टी को बाहर निकालना, नींव भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर की दूरी तक निस्तारण करना। सख्त, चिकनी, कंकर मिट्टी में H.W. 1 6.00 2.50 3.00 45.000 H.W.Ext. 2 5.00 2.50 3.00 75.000 S.W. 2 5.00 2.00 3.00 60.000 T.W. 1 6.00 1.50 2.00 18.000 Apron 1 6.00 3.50 1.00 21.000 219.000 6.202	घन फीट घन मी.	82.00 प्रति घनमी	508.57
2	सीमेंट कांक्रीट नींव या फर्श में 40 मि. मी. नामीय माप की पत्थर गिट्टी/ईट गिट्टी, सीमेंट - रेत मसाला में 1 सीमेंट : 4 रेत : 8 गिट्टी अनुपात में मिलाकर डालना तथा कुटाई करना, तराई समेत। पत्थर की गिट्टी के साथ H.W. 1 6.00 2.50 0.50 7.500 H.W.Ext. 2 5.00 2.50 0.50 12.500 S.W. 2 5.00 2.00 0.50 10.000 T.W. 1 6.00 1.50 0.50 4.500 34.500 0.977	घन फीट घन मी.	1743.00 प्रति घनमी	1702.98
3	नींव तथा कुसी में पत्थर की वे रद्धा-ढोका सीमेंट-बजरी 1 : 3, 1 : 6 या 1 : 8 मसाले में, मय बगल की झिरी बन्द करना तथा तराई आदि। सीमेंट बजरी 1:6 H.W. 1 6.00 2.50 2.50 37.500 H.W.Ext. 2 5.00 2.50 2.50 62.500 S.W. 2 5.00 2.00 2.50 50.000 T.W. 1 6.00 1.50 1.50 13.500 163.500 4.630	घन फीट घन मी.	1429.00 प्रति घनमी	6616.73
4	अधिरचना में पत्थर की वे रद्धा-ढोका सीमेंट-बजरी 1 : 3, 1 : 6 या 1 : 8 मसाले में, मय बगल की झिरी बन्द करना तथा तराई आदि। सीमेंट बजरी 1:6 H.W. 1 6.00 2.00 0.750 9.000 H.W.Ext. 2 5.00 2.00 1.350 27.000 S.W. 2 5.00 1.85 0.825 15.263 T.W. 1 6.00 1.35 0.300 2.430 53.693 1.521	घन फीट घन मी.	1534.00 प्रति घनमी	2332.56

क्र. सं.	कार्य विवरण	इकाई	दर सामग्री सहित	राशि
5	15 से 30 से.मी. मोटे, हथोड़े से तरासे हुए एकल पत्थर की पिचिंग समस्त उठान के साथ, आपूर्ति के साथ।			
Apron	1 6.00 3.60 0.50 10.800	घन फीट	583.00	178.31
	0.306	घन मी.	प्रति घनमी	
6	50 मी. मी. मोटाई में सीमेंट कंक्रीट 1:2:4 मिश्रण जिसमें 1 सीमेंट 2 बजरी 4 पत्थर की या ईट की 12 . मी. नामीय गिट्टी के साथ मिलाकर डालना, कूटना, दबाना तथा तराई आदि समेत ।			
H.W.	1 6.00 2.00 12.000			
H.W.Ext.	2 5.00 2.00 20.000			
S.W.	2 2.00 1.85 7.400			
T.W.	1 6.00 1.35 8.100			
	47.500	वर्ग फीट	190.00	838.42
	4.413	वर्ग मी.	प्रति वर्ग मी.	
7	सीमेंट काक्रीट 1 सीमेंट, 3 बजरी तथा 6 गिट्टी पत्थर की 20 मि.मी. नामीय माप की नींव में डालना एनीकट के लिए।			
Apron	1 6.00 3.60 0.100 2.16	घन फीट	2058.00	125.89
	0.061	घन मी.	प्रति घनमी	
8	सीमेंट प्लास्टर दीवार पर 1:6 अनुपात में सीमेंट-बजरी मिलाकर जोड़ों को कुरेदने तथा तराई समेत।			
	20 मी. मी.			
H.W.	1 2 तरफ 6.00 0.75 9.000			
H.W.Ext.	2 2 तरफ 5.00 1.35 27.000			
S.W.	2 2 तरफ 2.00 0.83 6.600			
T.W.	1 2 तरफ 6.00 0.30 3.600			
	46.200	वर्ग फीट	83.00	356.23
	4.292	वर्ग मी.	प्रति वर्ग मी.	
			कुल	12659.70
9	आकस्मिक व्यय 3 प्रतिशत		रूपये	379.79
			कुल रूपये	13039.49
			माना	13000.00

ESTIMATE NO. 14

NAME OF WORK: CONSTRUCTION OF WASTE WEIR TYPE "B"

क्र. सं.	कार्य विवरण	इकाई	दर सामग्री सहित	राशि
1	नींव, खाई, परनाला में 1.5 गहराई तक मिट्टी की खुदाई करना, तल को कूटना, पानी डालना, बगल को संवारना, खुदी मिट्टी को बाहर निकालना, नींव भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर की दूरी तक निस्तारण करना। सख्त, चिकनी, कंकर मिट्टी में			
H.W.	1 10.00 3.00 3.50 105.00			
H.W.Ext.	2 5.00 3.00 3.50 105.00			
S.W.	2 8.00 2.50 3.50 140.00			
T.W.	1 10.00 2.00 2.00 40.00			
Apron	1 10.00 6.00 1.50 90.00			
	480.00	घन फीट	82.00	1114.68
	13.59	घन मी.	प्रति घनमी	
2	सीमेन्ट कांक्रीट नींव या फर्श में 40 मि. मी. नामीय माप की पत्थर गिट्टी/ईट गिट्टी, सीमेन्ट - रेत मसाला में 1 सीमेन्ट : 4 रेत : 8 गिट्टी अनुपात में मिलाकर डालना तथा कुटाई करना, तराई समेत। पत्थर की गिट्टी के साथ			
H.W.	1 10.00 3.00 0.50 15.00			
H.W.Ext.	2 5.00 3.00 0.50 15.00			
S.W.	2 8.00 2.50 0.50 20.00			
T.W.	1 10.00 2.00 0.50 10.00			
	60.00	घन फीट	1743.00	2961.71
	1.70	घन मी.	प्रति घनमी	
3	नींव तथा कुर्सी में पत्थर की वे रद्धा-ढोका सीमेंट-बजरी 1 : 3, 1 : 6 या 1 : 8 मसाले में, मय बगल की झिरी बन्द करना तथा तराई आदि। सीमेंट बजरी 1:6			
H.W.	1 10.00 3.00 3.00 90.00			
H.W.Ext.	2 5.00 3.00 3.00 90.00			
S.W.	2 8.00 2.50 3.00 120.00			
T.W.	1 10.00 2.00 1.50 30.00			
	330.00	घन फीट	1429.00	13354.86
	9.35	घन मी.	प्रति घनमी	
4	अधिरचना में पत्थर की वे रद्धा-ढोका सीमेंट-बजरी 1 : 3, 1 : 6 या 1 : 8 मसाले में, मय बगल की झिरी बन्द करना तथा तराई आदि। सीमेंट बजरी 1:6			
H.W.	1 10.00 2.50 0.75 18.75			
H.W.Ext.	2 5.00 2.50 1.35 33.75			
S.W.	2 8.00 2.35 0.83 31.02			
T.W.	1 10.00 1.85 0.30 5.55			
	89.07	घन फीट	1534.00	3869.46
	2.52	घन मी.	प्रति घनमी	

क. सं.	कार्य विवरण	इकाई	दर सामग्री सहित	राशि
5	15 से 30 से.मी. मोटे, हथोड़े से तरासे हुए एकल पत्थर की पिचिंग समस्त उठान के साथ, आपूर्ति के साथ।			
Apron	1 10.00 6.10 0.50 30.50	घन फीट	583.00	503.57
	0.86	घन मी.	प्रति घनमी	
6	50 मी. मी. मोटाई में सीमेंट कंक्रीट 1:2:4 मिश्रण जिसमें 1 सीमेंट 2 बजरी 4 पत्थर की या ईट की 12 . मी. नाभीय गिट्टी के साथ मिलाकर डालना, कूटना, दबाना तथा तराई आदि समेत ।			
H.W.	1 10.00 2.50 25.00			
H.W.Ext.	2 5.00 2.50 25.00			
S.W.	2 2.00 2.35 9.40			
T.W.	1 10.00 1.85 18.50			
	77.90	वर्ग फीट	190.00	1375.01
	7.24	वर्ग मी.	प्रति वर्ग मी.	
7	सीमेंट कार्ब्रीट 1 सीमेंट, 3 बजरी तथा 6 गिट्टी पत्थर की 20 मि.मी. नाभीय माप की नींव में डालना एनीकट के लिए।			
Apron	1 10.00 6.10 0.10 6.10	घन फीट	2058.00	355.52
	0.17	घन मी.	प्रति घनमी	
8	सीमेंट प्लास्टर दीवार पर 1:6 अनुपात में सीमेंट-बजरी मिलाकर जोड़ों को कुरेदने तथा तराई समेत।			
	20 मी. मी.			
H.W.	1 2 तरफ 10.00 0.75 15.00			
H.W.Ext.	2 2 तरफ 5.00 1.35 27.00			
S.W.	2 2 तरफ 2.00 0.83 6.60			
T.W.	1 2 तरफ 10.00 0.30 6.00			
	54.60	वर्ग फीट	83.00	421.00
	5.07	वर्ग मी.	प्रति वर्ग मी.	
			कुल	23955.81
9	आकस्मिक व्यय 3 प्रतिशत		रूपये	718.67
			कुल रूपये	24674.49
			माना	25000.00

ESTIMATE NO. 15

NAME OF WORK: CONSTRUCTION OF GULLY CONTROL STRUCTURE IN ARABLE LAND "A"

Considerations -

A Seepage Line	5:1
B Side Slope	
U/s	3:1
D/S	2:1
C Length of Structure	10.00 Mtr.
D Height of Structure	1.60 Mtr.

क्रम संख्या	विवरण		मात्रा	दर	राशि
1	डाग बेलिंग 2.5 से 5 सेमी. गहराई तक	(3*लम्बाई)	30.00	0.25 प्रति मीटर	7.50
2	मिट्टी का कार्य बन्ध मे (सूखी या गीली), 15 से. मी. परत मे डालना, ढेलों को तोड़ना, घास-पात तथा कंकर बीनकर अलग करना तथा मिट्टी की दरेसी करना तथा शीप फूट रोलर/हैंड रैमर से मिट्टी दबाना, 1.5 मी उठान तथा 50 मी. दूरी के लिए। कठोर मिट्टी	10*(2.0+12.0)/2*1.60	112.00	85.00 प्रति घन मीटर	9520.00
3	बीज बुवाई बनाये गये रिज पर।	(5*लम्बाई)	50.00	0.59 प्रति मीटर	29.50
4	10 से.मी. दूरी पर (4 से 5 स्लीप्स एक जगह) वानस्पतिक अवरोध स्थापित करना मूंजा/खस स्लिप प्रूनिंग एवं सेपेरेटिंग कार्य	(4*लम्बाई)	40.00	525.00 प्रति किमी	21.00
5	प्लान्टिंग एवं ड्रेसिंग कार्य		40.00	1425.00 प्रति किमी	57.00
6	इन्सेक्टीसाइड/ पेस्टीसाइड से उपचार करना		40.00	308.00 प्रति किमी	12.32
7	प्राकृतिक स्ट्रोत्र से मूंजा/खस स्लिप उखाडने का कार्य		2000	1638.50 1 लाख स्लिप	32.77
			योग		9680.09
8	आकस्मिक व्यय 3 प्रतिशत				290.40
			कुल योग		9970.49
				माना	10000.00

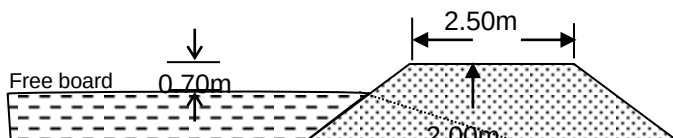
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2.00m

ESTIMATE NO. 16

NAME OF WORK: CONSTRUCTION OF GULLY CONTROL STRUCTURE IN ARABLE LAND "B"

Considerations -					
A	Seepage Line	5%1			
B	Side Slope				
	U/s	3%1			
	D/S	2%1			
C	Length of Structure	10.00 Mtr.			
D	Height of Structure	2.00 Mtr.			
क्रम संख्या	विवरण		मात्रा	दर	राशि
1	डाग बेलिंग 2.5 से 5 सेमी. गहराई तक	(3*लम्बाई)	30.00	0.25 प्रति मीटर	7.50
2	मिट्टी का कार्य बन्ध मे (सूखी या गीली), 15 से.मी. परत मे डालना, ढेलों को तोड़ना, घास-पात तथा कंकर बीनकर अलग करना तथा मिट्टी की दरेसी करना तथा शीप फूट रोलर/हैंड रैमर से मिट्टी दबाना, 1.5 मी उठान तथा 50 मी. दूरी के लिए।				
	कठोर मिट्टी	10*(2.5+12.50)/2*2.00	150.00	85 प्रति घन मीटर	12750.00
3	बीज बुवाई बनाये गये रिज पर।	(5*लम्बाई)	50.00	0.59 प्रति मीटर	29.50
4	10 से.मी. दूरी पर (4 से 5 स्लीप्स एक जगह) वानस्पतिक अवरोध स्थापित करना मूंजा/खस स्लिप प्रूनिंग एवं सेपेरेटिंग कार्य	(4*लम्बाई)	40.00	525 प्रति किमी	21.00
5	प्लान्टिंग एवं ड्रेसिंग कार्य		40.00	1425 प्रति किमी	57.00
6	इन्सेक्टीसाइड/ पेस्टीसाइड से उपचार करना		40.00	308 प्रति किमी	12.32
7	प्राकृतिक स्त्रोत्र से मूंजा/खस स्लिप उखाडने का कार्य		2000	1638.50 1 लाख स्लिप	32.77
			योग		12910.09
8	आकस्मिक व्यय 3 प्रतिशत				387.30
			कुल योग		13297.39
			माना		13300.00



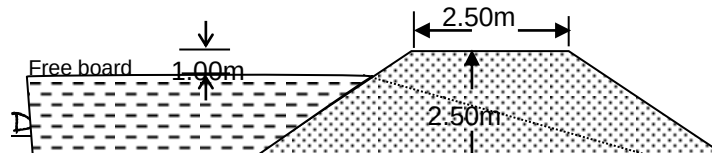
ESTIMATE NO. 17

NAME OF WORK: CONSTRUCTION OF GULLY CONTROL STRUCTURE IN ARABLE LAND "C"

Considerations -

A Seepage Line	9:1
B Side Slope	
U/s	3:1
D/S	2:1
C Length of Structure	15.00 Mtr.
D Height of Structure	2.50 Mtr.

क्र.स.	विवरण		मात्रा	दर	राशि
1	डाग बेलिंग 2.5 से 5 सेमी. गहराई तक	(3*लम्बाई)	45.00 मीटर	0.25 प्रति मीटर	11.25
2	मिट्टी का कार्य बन्ध मे (सूखी या गीली), 15 से. मी. परत मे डालना, ढेलों को तोड़ना, घास-पात तथा कंकर बीनकर अलग करना तथा मिट्टी की दरेसी करना तथा शीप फूट रोलर/हैंड रैमर से मिट्टी दबाना, 1.5 मी उठान तथा 50 मी. दूरी के लिए। कठोर मिट्टी	15*(2.50+15.0)/2*2.50	328.13 घन मीटर	85 प्रति घन मीटर	27890.63
3	बीज बुवाई बनाये गये रिज पर।	(5*लम्बाई)	75.00 मीटर	0.59 प्रति मीटर	44.25
4	10 से.मी. दूरी पर (4 से 5 स्लीप्स एक जगह) वानस्पतिक अवरोध स्थापित करना मूँजा/खस स्लिप प्रूनिंग एवं सेपेरेटिंग कार्य	(4*लम्बाई)	60.00 किमी	525 प्रति किमी	31.50
5	प्लान्टींग एवं ड्रेसिंग कार्य		60.00 किमी	1425 प्रति किमी	85.50
6	इन्सेक्टीसाइड/ पेस्टीसाइड से उपचार करना		60.00 किमी	308 प्रति किमी	18.48
7	प्राकृतिक स्रोत्र से मूँजा/खस स्लिप उखाड़ने का कार्य		2000	1638.50 1 लाख स्लिप	32.77
			योग		28114.38
8	आकस्मिक व्यय 3 प्रतिशत				843.43
	कुल योग				28957.81
				माना	29000.00



ESTIMATE NO. 18

NAME OF WORK: CONSTRUCTION OF PASTURE DEVELOPMENT WORK IN W/S IWMP II nd

FOR 10 HACT.

S.NO	ITME OF WORK	UNIT	DETAILS OF QUANTITY					RATE			AMOUNT		
			No.	L	W	D	T.Q.	Labour	Material	Total	Labour	Material	Total
1	चरागाह क्षेत्र में डिच कम बन्ड खुदाई कार्य कठोर मिट्टी में	CUM.	0	1800	1.2	1.2	2592.00	82		82	212544	0	212544
2	सतत कन्टर ट्रेचेज का निर्माण (कठोर मिट्टी में)	CUM.	0	6000	0.6	0.3	1080.00	82		82	88560	0	88560
3	खड्डे खुदाई का कार्य - सतत कन्टर ट्रेचेज में	NO.	4000	0.45 X .45 X .45			4000.00	6.8		6.8	27200	0	27200
4	घास बीज बुवाई का कार्य												
	(अ.) ट्रैक्टर द्वारा हवाई कार्य	HA.					10.00	30	259	289		2890	2890
	(ब.) घास बीज को तालाब मिट्टी के साथ मिलाकर गोलिया बनाना	KG.					90.00	10.43		10.43	938.7	0	938.7
	(स.) घास बीज को फेलाने का कार्य	MD					15.00	73		73	1095	0	1095
5	बीज बुवाई बनाये गये रिज पर तीनों लाईनों में									0.00		0	0
	(अ.) सतत कन्टर ट्रेचेज के बन्ड पर (धामण/हमैटा)	M.	0	6000	0	0	6000.00	0.59		0.59	3540	0	3540
	(ब.) डीसीबी बन्ड पर (केस्टर, डीबी, रतनजोत)	M.		2000			2000.00	0.59		0.59	1180	0	1180
6	पौधे का परिवहन (30 किमी लीड से) मय लोडिंग व अनलोडिंग सहित - प्रथम वर्ष	NO.	4000				4000.00		1.35	1.35		5400	5400
	पौधे का परिवहन (30 किमी लीड से) मय लोडिंग व अनलोडिंग सहित - द्वितीय वर्ष	NO.	800				800.00		1.35	1.35		1080	1080
7	पौधारोपण करना- सामान्य जमीन पर (प्रथम वर्ष)	NO.	4000				4000.00	3.00		3	12000	0	12000
	पौधारोपण करना- सामान्य जमीन पर (द्वितीय वर्ष) 20 प्रतिशत गेप फिलिंग	NO.	800				800.00	3.00		3	2400	0	2400
8	खड्डों को किटनाशक/पेस्टीसाईड एवं फर्टिलाईजर से उपचार करना	NO.					0.00					0	0
	(अ.) किटनाशक/पेस्टीसाईड	NO.	4000				4000.00	0.3		0.30	1200	0	1200
	(ब.) फर्टिलाईजर	NO.	4000				4000.00	0.15		0.15	600	0	600
9	पौधे को पानी पिलाना (15 ली. प्रति पौधा) - प्रथम वर्ष	NO.	3	4000			12000.00	1.8		1.80	21600	0	21600
	पौधे को पानी पिलाना (15 ली. प्रति पौधा) - द्वितीय वर्ष	NO.	2	4000			8000.00	1.8		1.80	14400	0	14400
	पौधे को पानी पिलाना (15 ली. प्रति पौधा) - तृतीय वर्ष	NO.	1	4000			4000.00	1.8		1.80	7200	0	7200

S.NO	ITME OF WORK	UNIT	DETAILS OF QUANTITY					RATE			AMOUNT		
			No.	L	W	D	T.Q.	Labour	Material	Total	Labour	Material	Total
10	पौधो को निराई गुड़ाई 15 सेमी गहराई एवं 45 सेमी अर्द्धव्यास तक - प्रथम वर्ष	NO.	1	4000			4000.00	1.2		1.20	4800	0	4800
	पौधो को निराई गुड़ाई 15 सेमी गहराई एवं 45 सेमी अर्द्धव्यास तक - द्वितीय वर्ष	NO.	2	4000			8000.00	1.2		1.20	9600	0	9600
	पौधो को निराई गुड़ाई 15 सेमी गहराई एवं 45 सेमी अर्द्धव्यास तक - तृतीय वर्ष	NO.	3	4000			12000.00	1.2		1.20	14400	0	14400
11	पौधो हेतु पानी की सप्लाई (टैकर द्वारा) - ट्रैक्टर मय टैकर 4000 ली. क्षमता मय ड्राईवर के - प्रथम वर्ष	TRIP.	3	15			45.00		225	225.00	0	10125	10125.00
	पौधो हेतु पानी की सप्लाई (टैकर द्वारा) - ट्रैक्टर मय टैकर 4000 ली. क्षमता मय ड्राईवर के - द्वितीय वर्ष	TRIP.	2	15			30.00		225	225.00	0	6750	6750.00
	पौधो हेतु पानी की सप्लाई (टैकर द्वारा) - ट्रैक्टर मय टैकर 4000 ली. क्षमता मय ड्राईवर के - तृतीय वर्ष	TRIP.	1	15			15.00		225	225.00	0	3375	3375.00
12	सामाग्री की लागत -									0.00	0	0	0.00
	(अ.) पौधे - प्रथम वर्ष	NO.	4000				4000.00		2.5	2.50	0	10000	10000.00
	(ब.) पौधे - द्वितीय वर्ष	NO.	800				800.00		2.5	2.50	0	2000	2000.00
	(स.) धामणघास बीज	KG.	60				60.00		150	150.00	0	9000	9000.00
	(द.) स्ट्राईलोमेंट बीज	KG.	40				40.00		50	50.00	0	2000	2000.00
	(य.) केस्टर सीड़	KG.	7				7.00		100	100.00	0	700	700.00
	(ल.) रतनजोत बीज	KG.	7				7.00		100	100.00	0	700	700.00
	(व.) देशी बबूल बीज	KG.	7				7.00		50	50.00	0	350	350.00
	(र) यूरिया/वर्मी कम्पोस्ट खाद	BAG	10				10.00		300	300.00	0	3000	3000.00
	(ह.) एलईन दवा	LTR.	10				10.00		250	250.00	0	2500	2500.00
13	चरागाह की चौकीदारी	MONTH	40				40.00	2600	0	2600.00	104000	0	104000
TOTAL											527257.7	59870	587127.7
								SAY COST PER HACT.			Rs -/	59000	

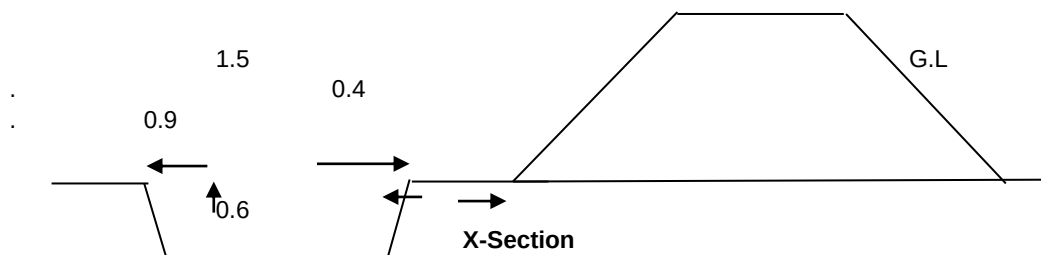
ESTIMATE NO. 19

NAME OF WORK: CONSTRUCTION OF DIVERSION CHANNEL CUM BUND

Cross section of Channel - 0.945 sqm					
For lenth 100 M.					
S.no.	Item	Quantity	Unit	Rate	Amount
1	Dag belling work up to 5-7 cm depth	400	Rm	0.25	100.00
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	0.945	Cum	85.00	80.33
3	Sowing of seed on bunds	500	Rm	0.59	295.00
4	Grass seed				
	Dhaman/Stylohemata	1	LS	40.00	40.00
	Sub Total				515.33
5	Contingency @ 3 %				15.46
	Grand Total				530.78
			Say	531	

Per. M. Cost 53.00

2 X(BOTH SIDE BUND)



ESTIMATE NO. 20

NAME OF WORK: CONSTRUCTION OF WATER HARVESTING STRUCTURE IN NON ARABLE TYPE "A"

क्र.सं.	विवरण	मात्रा	दर	राशि
1	डाग बेलिंग 2.5 से 5 सेमी गहराई			
	3 x लंबाई	150.00	0.25	37.50
		मीटर	प्रति मीटर	
2	मिट्टी का कार्य बन्ध में (सुखी या गीली) 15 सेमी . की परत में बिछाना, ढेलों को तोड़ना, घास पात बीनकर अलग करना तथा मिट्टी की ड्रेसिंग करना, 1.5 मी. उठान तथा 50 मी. दूरी के लिये, कठोर मिट्टी में			
		764.50	85.00	64982.50
		घन मीटर	प्रति घनमीटर	
3	बीज बुवाई बनाये गये रिज पर (3 लाईन में)			
	3xलंबाई	150.00	0.59	88.50
		मीटर	प्रति मीटर	
4	10 सेमी दूरी पर (4 से 5 स्लीप्स एक जगह) वानस्पतिक अवरोध स्थापित करना, मूंजा/खस स्लीप्स, प्रुनिंग एवं सेपरेटिंग कार्य			
	4xलंबाई	200.00	0.525	105.00
		मीटर	प्रति मीटर	
5	प्लांटिंग एवं ड्रेसिंग कार्य	200.00	1.425	285.00
		मीटर	प्रति मीटर	
6	इन्सेक्टीसाइड/पेस्टीसाइड से उपचार करना	200.00	0.308	61.60
		मीटर	प्रति मीटर	
7	प्राकृतिक स्रोत से मूंजा/खस स्लीप्स उखाड़ने का कार्य	0.10	1638.500	163.85
		लाख स्लीप्स	प्रति लाख स्लीप्स	
4	बीज की लागत	0.30	45.00	13.50
		किग्रा	प्रति किग्रा	
योग				65737.45
5	आकस्मिक व्यय 3 प्रतिशत			1972.12
	कुल योग			67709.57
			माना	67800.00

ESTIMATE NO. 21

NAME OF WORK: CONSTRUCTION OF WATER HARVESTING STRUCTURE IN NON ARABLE TYPE "B"

क्र.सं.	विवरण	मात्रा	दर	राशि
1	डाग बेलिंग 2.5 से 5 सेमी गहराई			
	3 x लंबाई	210.00	0.25	52.50
		मीटर	प्रति मीटर	
2	मिट्टी का कार्य बन्ध में (सुखी या गीली) 15 सेमी की परत में बिछाना, ढेलों को तोड़ना, घास पात बीनकर अलग करना तथा मिट्टी की ड्रेसिंग करना, 1.5 मी. उठान तथा 50 मी. दूरी के लिये, कठोर मिट्टी में			
		1256.49	85.00	106801.65
		घन मीटर	प्रति घनमीटर	
3	बीज बुवाई बनाये गये रिज पर (3 लाईन में)			
	3xलंबाई	210.00	0.59	123.90
		मीटर	प्रति मीटर	
4	10 सेमी दूरी पर (4 से 5 स्लीप्स एक जगह) वानस्पतिक अवरोध स्थापित करना, मूँजा/खस स्लीप्स, प्रुनिंग एवं सेपरेटिंग कार्य			
	4xलंबाई	280.00	0.525	147.00
		मीटर	प्रति मीटर	
5	प्लाटिंग एवं ड्रेसिंग कार्य	280.00	1.425	399.00
		मीटर	प्रति मीटर	
6	इन्सेक्टीसाइड/पेस्टीसाइड से उपचार करना	280.00	0.308	86.24
		मीटर	प्रति मीटर	
7	प्राकृतिक स्रोत से मूँजा/खस स्लीप्स उखाड़ने का कार्य	0.14	1638.500	229.39
		लाख स्लीप्स	प्रति लाख स्लीप्स	
4	बीज की लागत	0.50	45.00	22.50
		किग्रा	प्रति किग्रा	
योग				107862.18
5	आकस्मिक व्यय 3 प्रतिशत			3235.87
	कुल योग			111098.05
			माना	111100.00

ESTIMATE NO. 22**NAME OF WORK: CONSTRUCTION OF STAGGERED TRENCHES IN NON ARABLE LAND FOR HILLY AREAS**

Assumptions:

C. I. =5 MTS

No. of trenches per ha =

500 Nos

Size of trenches = 2x0.60x0.37m =

0.44 Cum

S.No.	Item	Quantity	Unit	Rate	Amount
1	Lay out of trenches 2*500*2*2	4000.00	Mtr	0.17	680.00
2	Dag belling 2.5 to 5 cm deep 2*500*2	2000.00	Mtr	0.25	500.00
3	Excavation in dry or moist including disposal of excavated material within initial lead of 50mtr and lift 1.5 mtr including dressing etc complete in hard Soil	220.00	Cum	82.00	18040.00
4	Labour charges of sowing of Dhaman / Stylo-Hameta / Karad grass seed on contour furrow in three rows	3000.00	Rmt	0.59	1770.00
5	Cost of Dhaman / Stylo-Hameta / Karad grass seed @4kg/ha	4.00	Per Kg/Ha	50.00	200.00
		Sub Total			21190.00
6	Contingency @ 3 %				635.70
	TOTAL				21825.70

Say Rs. 22000 per Ha

ESTIMATE NO. 23

NAME OF WORK: CONSTRUCTION OF LOOSE STONE CHECK DAM

S.No	Item	Part	No.	L	W	H/D	Qty	Unit	Rate	Amount
1	Excavation in hard soil disposal of excavated material within initial lead of 30m and lift of 1.5mtr dressing etc. complete.	HW	1	5.00	0.84	0.24	1.01			
		HWE	2	0.30	0.84	0.24	0.12			
		Total E/W						1.13	Cum	82.00
2	Dry stone masonry for~	Foundation		Same as Item no. 1			1.13			
		Super structure								
		HW	1	5.00	0.54	0.60	1.62			
		HWE	2	0.30	0.84	0.90	0.45			
		Sub total						3.20	Cum	781.00
3	Rehandling and carriage of stone by head load or animal transport including loading and unloading for lead up to 200m	4.33						Cum	47.00	203.58
4	Vegetation							L.S.		115.00
Total										2912.36

Rates are taken from Dar Anusuchie 2011, ZP Jaipur

Say Rs.2900 /- only

ESTIMATE NO. 25

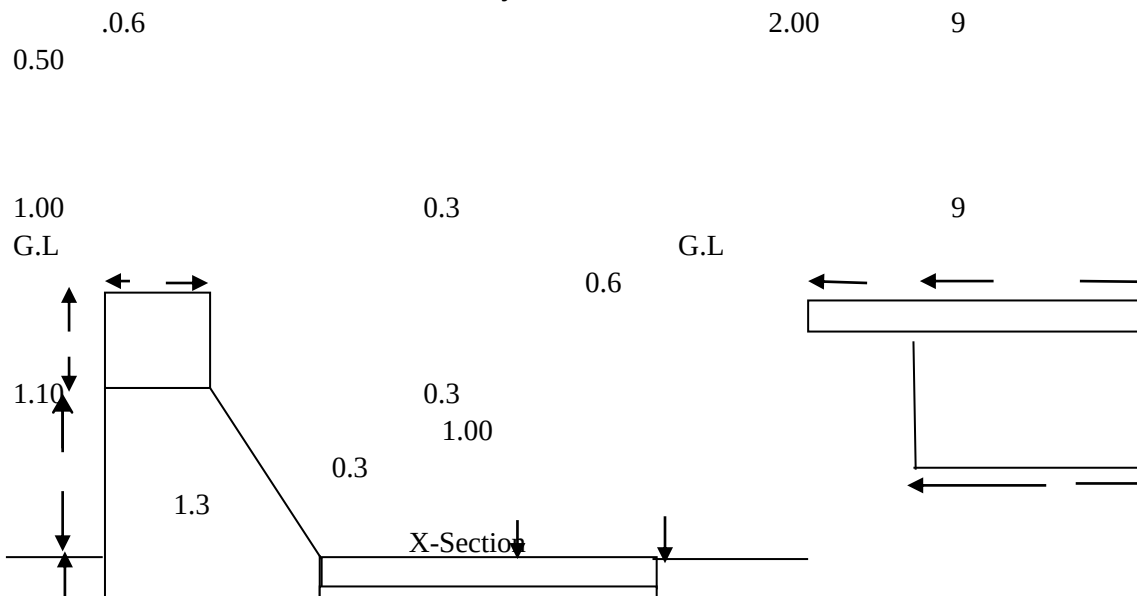
NAME OF WORK: CONSTRUCTION OF SAFTY WALL "B"

- | | | |
|---|-------------------------------|-----------------------------------|
| 1 | Name of w/s :- | IWMP II |
| | | P.S . BASSI DISTT. JAIPUR (RAJ.) |
| 2 | Name of work :- | CONTRUCTION OF SAFTY WALL |
| 1 | Available crest length | 9 M |
| 2 | Hight of structure | 0.80 M |
| 3 | Top Width | 0.6 M |
| 4 | Bottom Width | 1.25 M |
| 5 | Depth of foundation taking as | 1.10 M |
| 6 | Length of Basin | 1.00 M |
| 7 | Head wall ext. | 2+2 M |

DETAILED ESTIMATE								
S.No.	PARTICULAR	No.	L	B	H/D	Qty	Rate	Amount
1	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and lift of 1.5m including dressing etc							
	H.W.	1.00	9.00	1.25	1.10	12.38		
	H.W.EX.	2.00	2.00	0.90	1.10	3.96		
	Apron	1.00	9.00	1.00	0.60	5.40		
				Total	(cu.m)	21.74		
				Total		21.74	82.00	1782.27
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 50mm. HB							
	H.W.	1.00	9.00	1.25	0.30	3.38		
	H.W.EX.	2.00	2.00	0.90	0.30	1.08		
	Apron	1.00	9.00	1.00	0.30	2.70		
				Total		7.16	1743	12471.17
3	Random rubble stone masonry in cement sand mortar(1:6) for foundation							
	H.W.	1.00	9.00	1.25	0.80	9.00		
	H.W.EX.	2.00	2.00	0.60	0.80	1.92		
	Apron	1.00	9.00	1.00	0.30	2.70		
				Total		13.62	1429	19462.98
4	Random rubble stone masonry in cement sand mortar(1:6) for super structure							
	H.W.	1.00	9.00	0.93	0.80	6.66		
	H.W.EX.	2.00	2.00	0.60	1.30	3.12		
				Total		6.66	1534	10216.44

5	Cement plaster including smooth finishing in cement mortar (1:4) 25mm thick							
	H.W.	1.00	9.00	0.80		7.20		
		1.00	9.00	1.10		9.90		
	H.W.EX.	2.00	0.60	0.50		0.60		
	Apron	1.00	9.00	1.00		9.00		
				Total		26.70	138	3684.60
6	Cement concrete coping in cement mortar 1:1:5 :3 100 mm thick							
	H.W.	1.00	9.00	0.60	0.075	0.41		
	H.W.EX.	2.00	2.00	0.60	0.075	0.18		
	Apron	1.00	9.00	1.25	0.075	0.84		
				Total		1.43	3467	4953.48

TOTAL	52570.93
MATERIAL	41482.64
LABOUR	11088.30
TOTAL	52570.93
Add 3% Contingency Charges	1577.13
TOTAL Rs.	54148.06
Say	54000.00



ESTIMATE NO. 24

NAME OF WORK: CONSTRUCTION OF SAFTY WALL "A"

1 Name of w/s :- **IWMP II**

2 Name of work :- **P.S . BASSI DISTT. JAIPUR (RAJ.)**

1 Available crest length **CONTRUCTION OF WALL AT M- L-2** 8 M

2 Hight of structure 0.60 M

3 Top Width 0.6 M

4 Bottom Width 1.10 M

5 Depth of foundation taking as 0.90 M

6 Length of Basin 1.00 M

7 Head wall ext. 2+2 M

DETAILED ESTIMATE								
S.No.	PARTICULAR	No.	L	B	H/D	Qty	Rate	Amount
1	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and lift of 1.5m including dressing etc complete 100%of							
	H.W.	1.00	8.00	1.10	0.90	7.92		
	H.W.EX.	2.00	2.00	0.90	0.90	3.24		
	Apron	1.00	8.00	1.00	0.60	4.80		
				Total	(cu.m)	15.96		
				Total		15.96	82.00	1308.72
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 50mm. H.W.	1.00	8.00	1.10	0.30	2.64		
	H.W.EX.	2.00	2.00	0.90	0.30	1.08		
	Apron	1.00	8.00	1.00	0.30	2.40		
				Total		6.12	1743	10667.16
3	Random rubble stone masonry in cement sand mortar(1:6) for foundation							
	H.W.	1.00	8.00	1.10	0.60	5.28		
	H.W.EX.	2.00	2.00	0.60	0.60	1.44		
	Apron	1.00	8.00	1.00	0.30	2.40		
				Total		9.12	1429	13032.48
4	Random rubble stone masonry in cement sand mortar(1:6) for super structure							
	H.W.	1.00	8.00	0.85	0.60	4.08		
	H.W.EX.	2.00	2.00	0.60	1.10	2.64		
				Total		4.08	1534	6258.72

5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick							
	H.W.	1.00	8.00	0.60		4.80		
		1.00	8.00	0.90		7.20		
	H.W.EX.	2.00	0.60	0.50		0.60		
	Apron	1.00	8.00	1.00		8.00		
				Total		20.60	138	2842.80
6	Cement concrete coping in cement mortar 1:1:5 :3 100 mm thick							
	H.W.	1.00	8.00	0.60	0.075	0.36		
	H.W.EX.	2.00	2.00	0.60	0.075	0.18		
	Apron	1.00	8.00	1.10	0.075	0.66		
				Total		1.20	3467	4160.40

TOTAL 38270.28

METARIAL 30420.12

LABOUR 7850.16

TOTAL 38270.28

Add 3% Contingency Charges 1148.11

TOTAL Rs. 39418.39

Say 39500.00

.0.6 2.00 8

0.50

1.00 0.3 8

G.L G.L

0.6

0.90 0.3

1.00

0.3

1.1

X-Section

ESTIMATE NO. 26

NAME OF WORK

CONSTRUCTION OF SAFTY WALL "C"

1 Name of

IWMP II

2 Name of work :-

P.S . BASSI DISTT. JAIPUR (RAJ.)

CONTRUCTION OF WALL AT M- L-5

1 Available crest length

14 M

2 Hight of structure

0.90 M

3 Top Width

0.6 M

4 Bottom Width

5 Depth of foundation taking as

1.20 M

6 Length of Basin

1.00 M

7 Head wall ext.

2+2 M

DETAILED ESTIMATE

S.No.	Particulars	No.	L	B	H/D	Qty	Rate	Amount
1	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and lift of 1.5m including dressing etc complete 100%of							
	H.W.	1.00	14.00	1.35	1.20	22.68		
	H.W.EX.	2.00	2.00	0.90	1.20	4.32		
	Apron	1.00	14.00	1.00	0.60	8.40		
				Total	(cu.m)	35.40		
				Total		35.40	82.00	2902.80
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 50mm. HB H.W.	1.00	14.00	1.35	0.30	5.67		
	H.W.EX.	2.00	2.00	0.90	0.30	1.08		
	Apron	1.00	14.00	1.00	0.30	4.20		
				Total		10.95	1743	19085.85
3	Random rubble stone masonry in cement sand mortar(1:6) for foundation							
	H.W.	1.00	14.00	1.35	0.90	17.01		
	H.W.EX.	2.00	2.00	0.60	0.90	2.16		
	Apron	1.00	14.00	1.00	0.30	4.20		
				Total		23.37	1429	33395.73
4	Random rubble stone masonry in cement sand mortar(1:6) for super structure							
	H.W.	1.00	14.00	0.98	0.90	12.29		
	H.W.EX.	2.00	2.00	0.60	1.40	3.36		
				Total		12.29	1534	18845.19

5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick							
	H.W.	1.00	14.00	0.90		12.60		
		1.00	14.00	1.20		16.80		
	H.W.EX.	2.00	0.60	0.50		0.60		
	Apron	1.00	14.00	1.00		14.00		
				Total		44.00	138	6072.00
6	Cement concrete coping in cement mortar 1:1:5 :3 100 mm thick							
	H.W.	1.00	14.00	0.60	0.075	0.63		
	H.W.EX.	2.00	2.00	0.60	0.075	0.18		
	Apron	1.00	14.00	1.35	0.075	1.42		
				Total		2.23	3467	7722.74

TOTAL 88024.31

METARIAL 69221.52

LABOUR 18802.79

TOTAL 88024.31

Add 3% Contingency Charges 2640.73

TOTAL Rs. 90665.04

Say 91000.00

.0.6 2.00 14

0.50

1.00 0.3 14

G.L G.L

0.6

1.20 0.3

1.00

0.3

1.4

X-Section

ESTIMATE NO. 27

NAME OF WORK: CONSTRUCTION OF SAFTY WALL "D"

- 1 Name of w/s :- IWMP II
- P.S . BASSI DISTT. JAIPUR (RAJ.)
- 2 Name of work :- CONTRUCTION OF WALL AT M- L-6
- 1 Available crest length 17 M
- 2 Hight of structure 1.00 M
- 3 Top Width 0.6 M
- 4 Bottom 1.40 M
- 5 Depth of foundation taking as 1.30 M
- 6 Length of Basin 1.00 M
- 7 Head wall ext. 2+2 M

DETAILED ESTIMATE								
S.No.	PARTICULAR	No.	L	B	H/D	Qty	Rate	Amount
1	Excavation in hard soil dry or moist & disposal of excavated material within intial lead of 30 m and lift of 1.5m including dressing etc complete 100% of							
	H.W.	1.00	17.00	1.40	1.30	30.94		
	H.W.EX.	2.00	2.00	0.90	1.30	4.68		
	Apron	1.00	17.00	1.00	0.60	10.20		
				Total	(cu.m)	45.82		
				Total		45.82	82.00	3757.24
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 50mm. HB H.W.	1.00	17.00	1.40	0.30	7.14		
	H.W.EX.	2.00	2.00	0.90	0.30	1.08		
	Apron	1.00	17.00	1.00	0.30	5.10		
				Total		13.32	1743	23216.76
3	Random rubble stone masonry in cement sand mortar(1:6) for foundation							
	H.W.	1.00	17.00	1.40	1.00	23.80		
	H.W.EX.	2.00	2.00	0.60	1.00	2.40		
	Apron	1.00	17.00	1.00	0.30	5.10		
				Total		31.30	1429	44727.70
4	Random rubble stone masonry in cement sand mortar(1:6) for super structure							
	H.W.	1.00	17.00	1.00	1.00	17.00		
	H.W.EX.	2.00	2.00	0.60	1.50	3.60		
				Total		17.00	1534	26078.00

5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick							
	H.W.	1.00	17.00	1.00		17.00		
		1.00	17.00	1.30		22.10		
	H.W.EX.	2.00	0.60	0.50		0.60		
	Apron	1.00	17.00	1.00		17.00		
				Total		56.70	138	7824.60
6	Cement concrete coping in cement mortar 1:1:5 :3 100 mm thick							
	H.W.	1.00	17.00	0.60	0.075	0.77		
	H.W.EX.	2.00	2.00	0.60	0.075	0.18		
	Apron	1.00	17.00	1.40	0.075	1.79		
				Total		2.73	3467	9464.91

TOTAL 115069.21

METARIAL 90244.04

LABOUR 24825.17

TOTAL 115069.21

Add 3% Contingency Charges 3452.08

TOTAL Rs. 118521.29

Say 119000.00

.0.6 2.00 17

0.50

1.00 0.3 17

G.L G.L

0.6

1.30 0.3

1.00

0.3

1.4

X-Section

ESTIMATE NO. 28

NAME OF WORK: CONSTRUCTION OF SAFTY WALL "E"

- 1 Name of w/s :- IWMP II
P.S . BASSI DISTT. JAIPUR (RAJ.)
- 2 Name of work :- CONSTRUCTION OF WALL AT M- L-8
- 1 Available crest length 22 M
- 2 Hight of structure 1.30 M
- 3 Top Width 0.6 M
- 4 Bottom Width 1.70 M
- 5 Depth of foundation taking as 1.60 M
- 6 Length of Basin 1.00 M
- 7 Head wall ext. 2+2 M

DETAILED ESTIMATE								
S.No.	PARTICULAR	No.	L	B	H/D	Qty	Rate	Amount
1	Excavation in hard soil dry or moist & disposal of excavated material within intial lead of 30 m including dressing etc complete upto 100% of lift of 1.5m							
	H.W.	1.00	22.00	1.70	1.60	59.84		
	H.W.EX.	2.00	2.00	0.90	1.60	5.76		
	Apron	1.00	22.00	1.00	0.60	13.20		
				Total (cu.m)		78.80		
						78.80	82.00	6461.60
2	cement concrete well mixed cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 50mm. HB H.W.				0.30	11.22		
	H.W.EX.	2.00	2.00	0.90	0.30	1.08		
	Apron	1.00	22.00	1.00	0.30	6.60		
				Total		18.90	1743	32942.70
3	Random rubble stone masonry in cement sand mortar(1:6) for foundation							
	H.W.	1.00	22.00	1.70	1.30	48.62		
	H.W.EX.	2.00	2.00	0.60	1.30	3.12		
	Apron	1.00	22.00	1.00	0.30	6.60		
				Total		58.34	1429	83367.86
4	Random rubble stone masonry in cement sand mortar(1:6) for super structure							
	H.W.	1.00	22.00	1.15	1.30	32.89		
	H.W.EX.	2.00	2.00	0.60	1.80	4.32		
				Total		32.89	1534	50453.26

5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick							
	H.W.	1.00	22.00	1.30		28.60		
		1.00	22.00	1.60		35.20		
	H.W.EX.	2.00	0.60	0.50		0.60		
	Apron	1.00	22.00	1.00		22.00		
				Total		86.40	138	11923.20
6	Cement concrete coping in cement mortar 1:1:5 :3 100 mm thick							
	H.W.	1.00	22.00	0.60	0.075	0.99		
	H.W.EX.	2.00	2.00	0.60	0.075	0.18		
	Apron	1.00	22.00	1.70	0.075	2.81		
				Total		3.98	3467	13781.33

TOTAL 198929.95

METARIAL 155115.04

LABOUR 43814.91

TOTAL 198929.95

Add 3% Contingency Charges 5967.90

TOTAL Rs. 204897.84

Say 205000.00

.0.6 2.00 22

0.50

1.00 0.3 22

G.L G.L

0.6

1.60 0.3

1.00

0.3

1.7

X-Section

ESTIMATE NO. 29

NAME OF WORK: CONSTRUCTION OF MASONRY WATER HARVESTING STRUCTURE "A"

1	Name of W/S	IWMP II		
		P.S.BASSI, DISTT. JAIPUR		
2	Name of work :-	CONSTRUCTION OF WATER HARVESTING STR.		
	<u>Design</u>			
1	Available crest length	6.00 M		
2	Total catchment area	100.00 Ha		
3	Hight of structure	1.30 M		
A	Design discharge (By flood discharge method)			
A	<u>HYDROLIC DESIGN</u>			
	Peak rate of run off in cum/sec.=			
	$Q = \frac{C I A}{36}$	C = 0.40	Catchment Area	100.00
	Q =	4.89 cumsec	$K = \frac{L^3}{H}$	
	Say	4.9 cumsec	L =	3800.00
			H =	40.00
			K	37037.82
			$T_c = 0.0195 K^{0.77}$	
			64.25	
			I =	4.40
B	<u>HYDROLIC DESIGN</u>			
	$Q = 1.71 L(h)^{3/2}$	L =	6.00 mt length available at site	
	$h = [Q/1.71 L]^{2/3}$			
	h =	0.61 Say =	0.60	
	Taking free board as	0.3 M		
	Total d =	0.90		
	C. STRUCTURAL DESIGN			
(I)	Top width of Head wall			
	$h/(p-1)^{0.5}$	0.53	0.53 say =	0.60 M
	(as per site condition where h =		0.60 m p = 2.30	0.60 M
	p Specific gravty of stone masnory in cm = 2.3			
(ii)	Bottom width of head wall			
	$b = h+H/(p-1)^{0.5}$	1.67	Say =	1.70 M
	H =heigh of head wall in meters =	1.3 m		1.30 M
(iii)	Length of head wall extension			
	H + d + 1	3.20		3.20 M
	d = h+free board =	0.90		0.90 M
	but as per side condition L/S M	1.5	R/S M	1.5
				3.00 M
(iv)	Heigh of Head wall extension			
	H + d =			2.20 M
(v)	Botton width of HW ext. side wall & wing wall			
	$0.5(H+h)=$	0.95		1.10 M
(vi)	Top width of HW ext			
	$0.4H=$	0.52		0.60 M
(vii)	Length of Basin			
	$L.B = 0.75(H+d)+H$	2.95		2.95 M
(viii)	Thickness of Basin =0.60m(incloding concreting)			
(ix)	Height of side wall			
	H+d =	2.20		2.20 M

- (x) Height of side wall = $1.5h$ at W W joints
 $1.5h = 0.90$ 1.10 M
- (xi) Length of side wall = B. W. of H. W -B.W of H W E+L.B+ width of toe wall
 4.00
- (xii) Length of wing wall = $2.25 h = 1.35$ 1.50 M
- (xiii) Height of the wing wall = 0.90 1.10 M
- (xiv) Top width of Head wall ext site wall wing wall = 0.60mt
- (xv) Width of toe wall = 0.45 M
- (xvi) Height of toe wall = 0.30 M
- (xvii) Height of wing wall at wing end = 1.10 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 = 1.10 M
- (xix) Depth of foundation taking as 2.00 M

STABILITY CHECK'S

- a Top width of anicut = 0.60 m
- b Bottom width of anicut = 1.70 m
- $w_1 + w$ 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 = 0.60 m
- H height of anicut = 1.30 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 2x5	
					+ ve	-ve
1	$w_1 = a \times H \times L \times S$					
	1.79	1.79		2.20	3.95	
2	$w_2 = 1/2 \times (b-a) \times H \times L \times S$					
	1.64	1.64		1.13	1.86	
3	$p_1 = wh \times H$					
	0.78		0.78	0.90		0.70
4	$p_2 = wH^2/2 \times H$					
	0.85		0.85	0.60		0.51
5	$p_3 = cxwbx(H+h)/2$					
	0.80	0.80		1.80		1.43
	TOTAL	2.64	1.63		5.81	2.64

$E_m = m_r - m_o$

3.16

CHECKS IN OVERTURNING

Factor of safety against overturning

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

2.20

it is more than 1.50 hence structure is safe against overturning

SLINDING

Factor of safety against slinding

$E_v/E_h = 1.63$

it is more than 1.0 hence structure is safe against slinding

RUPTURE (safety against tension at the base)

X Resultant Position of resultant measured from toe

$x = E_m/E_v = 1.20$

$e = b/2 - X = -0.35$

$E_v/b (1+6e/b) = 0.33$

$E_v/b (1-6e/b) = 2.78$

P max = 0.33

P min = 2.78

ABSTRACT OF COST

S.No	Particular	Qty.	Rate	Labour Rate	Unit	Amount
1	Excavation in soil dry or moist&disposal of excavated material within initial lead of 30 m and lift of 1.5m including dressing etc complete	7.62	71.00	71	cum	540.74
2	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	22.85	82.00	82	cum	1873.54
3	Excavation in disintegrated rock and or soft rock or hard bankar or compacted murrum dry or moist including dressing&disposal of excavated material within initial lead of 30m and lift of 1.5m	45.70	130.00	130	cum	5940.48
4	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 50mm. HB	12.62	1743.00	248	cum	21987.95
5	Random rubble stone masonry in cement sand mortar(1:6) for foundation	56.47	1429.00	388	cum	80688.49
6	Random rubble stone masonry in cement sand mortar(1:6) for super structure	42.34	1534.00	493	cum	64951.09
7	Cement plaster including smooth finishing in cement mortar (1:4) 25mm thick	42.82	138.00	62	sqm	5909.16
8	Cement concrete coping in cement mortar 1:2:4. 100mm thick	3.11	3467.00	583	cum	10770.24

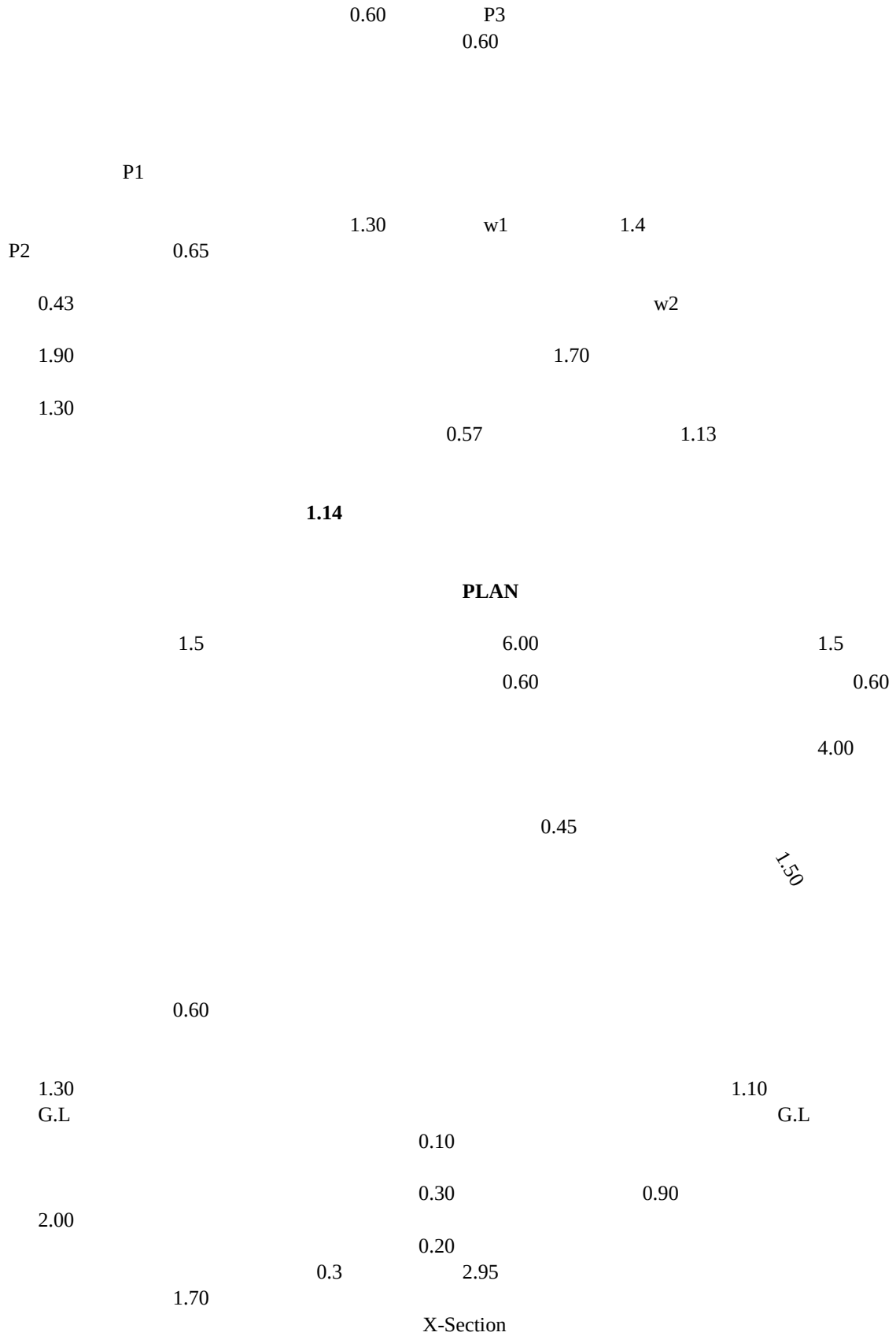
9	E/W for bind / embankment in dry or moist soil including laying on layers 1.5cm Breaking of clods sorting of grass pabbles etc and dressing in required profile when compacted manually or by plain roller with initial lead of 30mt and lift 1.5 mt (excluding)charges of watering and compaction					
	Hard soil 50%	112.50	61.00	85	cum	6862.50
	Ordinary murram 50%	112.50	96.00	130	cum	10800.00
10	Rehandling of cement beyond 100 m initial lead lead up to 200	11.67	44.00	44	mt.	513.46
			TOTAL			210837.63
	MATERIAL					127404.94
	LABOUR					83432.70
			TOTAL			210837.63
	Add 3% Contingency Charges					6325.13
			TOTAL Rs.			217162.76
			Say			2.17

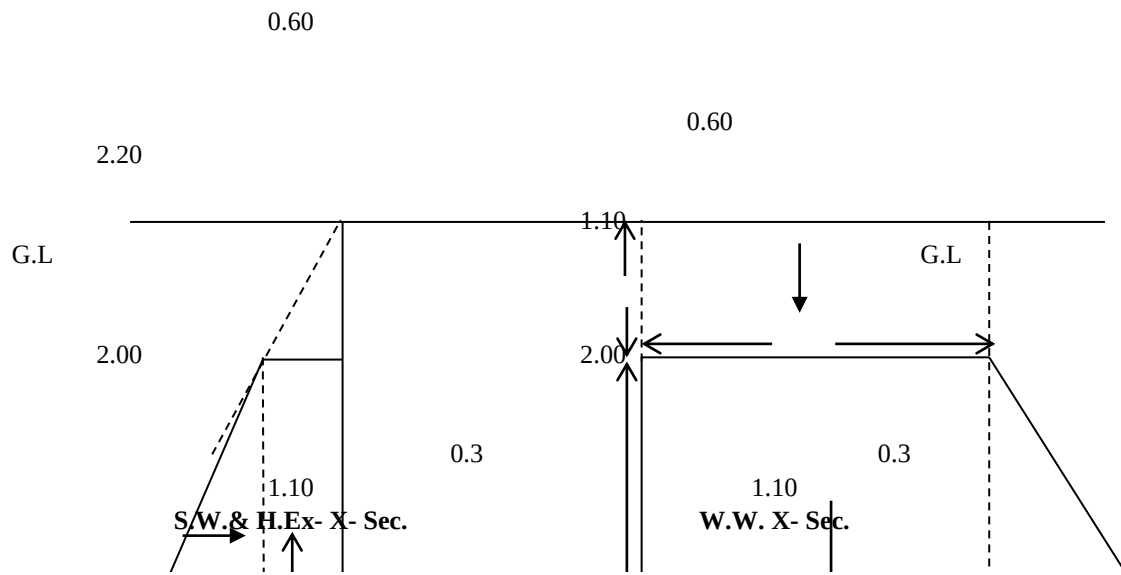
DETAILED ESTIMATE

S.No.	PARTICULAR	No.	LENGTH	WIDTH	HT/DEPTH	QUANTITY
1	Total Excavation					
	H.W.	1.00	6.00	1.70	2.00	20.40
	H.W.E.	2.00	3.00	1.10	2.00	13.20
	S.W.	2.00	4.00	1.10	2.00	17.60
	wing wall	2.00	1.50	1.10	2.00	6.60
	Toe wall	1.00	6.00	0.45	0.90	2.43
	Apron	1.00	6.00	2.95	0.90	15.93
				Total	(cu.m)	76.16
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		7.62
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		22.85

4	Excavation in disintegrated rock and or soft rock or hard bankar or compacted murrum dry or moist including dressing&disposal of exeavated matarual with intial lead of 30m and lift of 1.5m 60% of Total Excavation					
				Total		45.70
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	6.00	1.70	0.30	3.06
	H.W.E.	2.00	3.00	1.10	0.30	1.98
	S.W.	2.00	4.00	1.10	0.30	2.64
	Wing Wall	2.00	1.50	1.10	0.30	0.99
	Toe Wall	1.00	6.00	0.45	0.15	0.41
	Apron	1.00	6.00	2.95	0.20	3.54
				Total		12.62
6	Random rubble stone masonary in cement sand mortar(1:6) for foundation					
	H.W.	1.00	6.00	1.70	1.70	17.34
	H.W.E.	2.00	3.00	1.10	1.70	11.22
	S.W.	2.00	4.00	1.10	1.70	14.96
	Wing Wall	2.00	1.50	1.10	1.70	5.61
	Toe Wall	1.00	6.00	0.45	0.75	2.03
	Apron	1.00	6.00	2.95	0.30	5.31
				Total		56.47
7	Random rubble stone masonary in cement sand mortar(1:6) forsuper structure					
	H.W.	1.00	6.00	1.15	1.30	8.97
	H.W.E	1.00	3.00	0.85	2.20	5.61
	S.W.	2.00	3.40	0.85	1.65	9.54
		2.00	0.60	0.85	2.20	2.24
		2.00	0.50	0.85	1.10	0.94
	Wing Wall	4.00	1.50	0.85	2.95	15.05
				Total		42.34
8	Cement plaster including smooth finishing in cement mortar (1:3)25mm thick					
	H.W.	1.00	6.00	1.30		7.80
		1.00	6.00	1.60		9.60
		1.00	6.00	0.30		1.80
	S.W.	2.00	0.60	0.90		1.08
		2.00	1.10	1.55		1.08
		2.00	3.40	1.65		11.22
		2.00	2.95	0.30		1.77
	Wing Wall	2.00	1.50	1.10		3.30
		2.00	0.85	1.10		1.87
	H.W.E.	1.00	3.00	0.50		1.50
	Toe Wall	1.00	6.00	0.30		1.80
				Total		42.82

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	5.10	0.60	0.08	0.46
	Wing Wall	4.00	1.50	0.60	0.08	0.27
	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	1.00	6.00	2.95	0.10	1.77
				Total		3.11
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					225
				Total		225





ESTIMATE NO. 30

NAME OF WORK: CONSTRUCTION OF MASONRY WATER HARVESTING STRUCTURE

"B"

- 1 Name of W/S IWMP II
P.S.BASSI, DISTT. JAIPUR
- 2 Name of work :- CONSTRUCTION OF WATER HARVESTING STR.

Design

- 1 Available crest length 10.00 M
- 2 Total catchment area 150.00 Ha
- 3 Hight of structure 1.50 M
- A Design discharge (By flood discharge method)
- A HYDROLIC DESIGN
Peak rate of run off in cum/sec.=

$$Q = \frac{C I A}{36} \quad C = 0.40 \quad \text{Catchment Area} \quad 150.00$$

$$Q = 7.33 \text{ cumsec} \quad K = \frac{L^3}{H}$$

$$\text{Say } 8 \text{ cumsec} \quad L = 3800.00$$

$$H = 40.00$$

$$K = 37037.82$$

$$Tc = 0.0195 K^{0.38}$$

$$64.25$$

$$I = 4.40$$

B HYDROLIC DESIGN

- $$Q = 1.71L(h)^{3/2} \quad L = 10.00 \text{ mt length available at site}$$
- $$h = [Q/1.71L]^{2/3}$$
- $$h = 0.58 \text{ Say } 0.60$$
- Taking free board as 0.3 M
- Total d = 0.90

C. STRUCTURAL DESIGN

- (I) Top width of Head wall

$$h/(p-1)^{0.5} = 0.53 \quad 0.53 \text{ say } = 0.60 \text{ m } p = 2.30$$

(as per site condition where h = 0.60 m p = 2.30)

p Specific gravty of stone masnory in cm = 2.3
- (ii) Bottom width of head wall

$$b = h+H/(p-1)^{0.5} = 1.84 \quad \text{Say } = 1.70 \text{ M}$$

H =heigh of head wall in meters = 1.5 m
- (iii) Length of head wall extension

$$H+d+1 = 3.40$$

$$d = h+\text{free board} = 0.90$$

but as per side condition L/S M 1.5 R/S M 1.5
- (iv) Heigh of Head wall extension

$$H+d = 2.40 \text{ M}$$
- (v) Botton width of HW ext. side wall & wing wall

$$0.5(H+h) = 1.05$$
- (vi) Top width of HW ext

$$0.4H = 0.6$$
- (vii) Length of Basin

$$L.B = 0.75(H+d)+H = 3.30$$
- (viii) Thickness of Basin =0.60m(incloding concreting)
- (ix) Height of side wall

H+d =	2.40	2.40 M
(x) Height of side wall =1.5h at W W joints		
1.5h =	0.90	1.10 M
(xi) Length of side wall = B. W. of H. W -B.W of H W E+L.B+ width of toe wall	4.00	
(xii) Length of wing wall = 2.25 h=	1.35	1.50 M
(xiii) Height of the wing wall =	0.90	1.10 M
(xiv) Top width of Head wall ext site wall wing wall = 0.60mt		
(xv) Width of toe wall=		0.45 M
(xvi) Height of toe wall =		0.30 M
(xvii) Height of wing wall at wing end =		1.10 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		1.10 M
(xix) Depth of foundation taking as		2.00 M

STABILITY CHECK'S

a	Top width of anicut =	0.80 m
b	Bottom width of anicut =	1.70 m
$w_1 + w$ 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 =	0.60 m
H	height of anicut =	1.50 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 2x5	
					+ ve	-ve
1	$w_1 = a \times H \times L \times S$					
	2.76	2.76		2.20	6.07	
2	$w_2 = 1/2 \times (b-a) \times H \times L \times S$					
	1.55	1.55		1.13	1.75	
3	$p_1 = w \times h \times H$					
	0.90		0.90	0.90		0.81
4	$p_2 = w \times H^2 / 2 \times H$					
	1.13		1.13	0.60		0.68
5	$p_3 = c \times w \times b \times (H+h) / 2$					
	0.92	0.92		1.80		1.65
	TOTAL	3.39	2.03		7.83	3.14

$E_m = m_r - m_o$

4.69

CHECKS IN OVERTURNING

Factor of safety against overturning

$E_{mr}/E_{mo} = +m/-m$ = Restoring moment/overturning moment

2.49

it is more than 1.50 hence structure is safe against overturning

SLIDING

Factor of safety against sliding

$E_v/E_h = 1.68$

it is more than 1.0 hence structure is safe against sliding

RUPTURE (safety against tension at the base)

X Relne Position of resultant measured from toe

$x = E_m/E_v = 1.38$

$e = b/2 - X = -0.53$

$E_v/b (1+6e/b) = 0.12$

$E_v/b (1-6e/b) = 3.87$

P max = 0.12

P min = 3.87

ABSTRACT OF COST

S.No	Particular	Qty.	Rate	Labour Rate	Unit	Amount
1	Excavation in soil dry or moist&disposal of excavated material within intial lead of 30 m and lift of 1.5m including dressing etc complete	10.20	71.00	71	cum	724.20
2	Excavation in ordinary murrum or earth mixed with bajri and kankar or boulder dry or moist&disposal of excavated material within intial lead of 30 m and lift of 1.5m including dressing etc complete	30.60	82.00	82	cum	2509.20
3	Excavation in disintegrated rock and or soft rock or hard bankar or compacted murrum dry or moist including dressing&disposal of exeavated matarual with intial lead of 30m and lift of 1.5m	61.20	130.00	130	cum	7956.00
4	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 50mm. HB	17.29	1743.00	248	cum	30127.76
5	Random rubble stone masonry in cement sand mortar(1:6) for foundation	72.92	1429.00	388	cum	104195.54
6	Random rubble stone masonry in cement sand mortar(1:6) for super structure	53.50	1534.00	493	cum	82065.93
7	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	62.22	138.00	62	sqm	8586.36
8	Cement concrete coping in cement mortar 1:2:4.100mm thick	4.75	3467.00	583	cum	16473.45

9	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 watterring and compaction					
	Hard soil 50%	112.50	85.00	85	cum	9562.50
	Ordinary murram 50%	112.50	130.00	130	cum	14625.00
10	Rehandling of cement beyond 100 m initial lead lead up to 200	15.41	44.00	44	mt.	678.20
			TOTAL			277504.13
	METARIAL					175869.05
	LABOUR					101635.08
			TOTAL			277504.13
	Add 3% Contingency Charges					8325.12
			TOTAL Rs.			285829.26
			Say			2.86

Prepared by

checked by

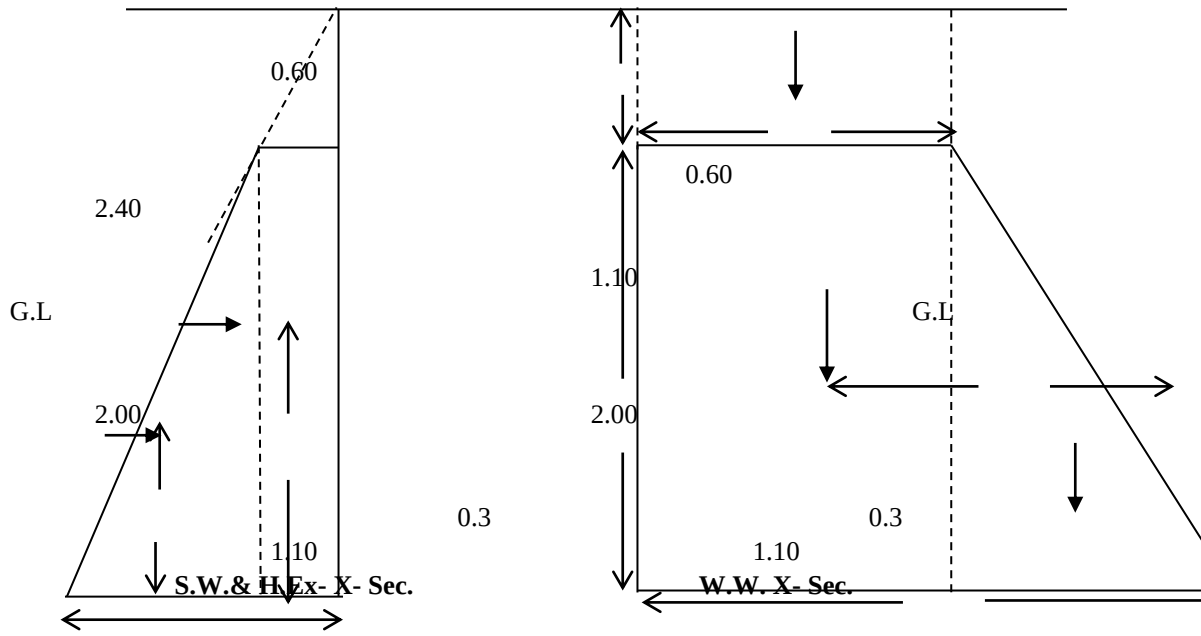
Approved by

DETAILED ESTIMATE

S.No.	PARTICULAR	No.	LENGTH	WIDTH	HT/DEPTH	QUANTITY
1	Total Excavation					
	H.W.	1.00	10.00	1.70	2.00	34.00
	H.W.E.	2.00	3.00	1.10	2.00	13.20
	S.W.	2.00	4.00	1.10	2.00	17.60
	wing wall	2.00	1.50	1.10	2.00	6.60
	Toe wall	1.00	10.00	0.45	0.90	4.05
	Apron	1.00	10.00	2.95	0.90	26.55
				Total	(cu.m)	102.00
2	Excavation in hard soil dry or moist&disposal of excavated material within intial lead of 30 m and lift of 1.5m including dressing etc complete 10%of TotalExcavation					
				Total		10.20
3	Excavation in ordinary murram or earth mixed with bajri and kankar or boulder dry or moist&disposal of excavated material within intial lead of 30 m and lift of 1.5m including dressing etc complete 30% of Total Excavation					
				Total		30.60

4	Excavation in disintegrated rock and or soft rock or hard bankar or compacted murrum dry or moist including dressing&disposal of exeavated matarual with intial lead of 30m and lift of 1.5m 60% of Total Excavation					
				Total		61.20
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	10.00	1.70	0.30	5.10
	H.W.E.	2.00	3.00	1.10	0.30	1.98
	S.W.	2.00	4.00	1.10	0.30	2.64
	Wing Wall	2.00	1.50	1.10	0.30	0.99
	Toe Wall	1.00	10.00	0.45	0.15	0.68
	Apron	1.00	10.00	2.95	0.20	5.90
				Total		17.29
6	Random rubble stone masonry in cement sand mortar(1:6) for foundation					
	H.W.	1.00	10.00	1.70	1.70	28.90
	H.W.E.	2.00	3.00	1.10	1.70	11.22
	S.W.	2.00	4.00	1.10	1.70	14.96
	Wing Wall	2.00	1.50	1.10	1.70	5.61
	Toe Wall	1.00	10.00	0.45	0.75	3.38
	Apron	1.00	10.00	2.95	0.30	8.85
				Total		72.92
7	Random rubble stone masonry in cement sand mortar(1:6) forsuper structure					
	H.W.	1.00	10.00	1.25	1.50	18.75
	H.W.E	1.00	3.00	0.85	2.40	6.12
	S.W.	2.00	3.40	0.85	1.75	10.12
		2.00	0.60	0.85	2.40	2.45
		2.00	0.50	0.85	1.20	1.02
	Wing Wall	4.00	1.50	0.85	2.95	15.05
				Total		53.50
8	Cement plaster including smooth finishing in cement mortar (1:3)25mm thick					
	H.W.	1.00	10.00	1.50		15.00
		1.00	10.00	1.80		18.00
		1.00	10.00	0.30		3.00
	S.W.	2.00	0.80	0.90		1.44
		2.00	0.90	1.65		1.44
		2.00	3.40	1.75		11.90
		2.00	2.95	0.30		1.77
	Wing Wall	2.00	1.50	1.10		3.30
		2.00	0.85	1.10		1.87
	H.W.E.	1.00	3.00	0.50		1.50
	Toe Wall	1.00	10.00	0.30		3.00

				Total		62.22
9	Cement concrete coping in cement mortar 1:2:4.75 mm thick					
	H.W.	1.00	10.00	0.80	0.08	0.60
	S.W.	2.00	5.10	0.60	0.08	0.46
	Wing Wall	4.00	1.50	0.60	0.08	0.27
	H.W.E.	1.00	3.00	0.60	0.08	0.14
	Toe.Wall	1.00	10.00	0.45	0.08	0.34
	Apron	1.00	10.00	2.95	0.10	2.95
				Total		4.75
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					225
				Total		225



ESTIMATE NO. 31

NAME OF WORK: CONSTRUCTION OF MASONRY WATER HARVESTING STRUCTURE "B"

- 1 Name of W/S IWMP II
P.S.BASSI, DISTT. JAIPUR
- 2 Name of work :- CONSTRUCTION OF WATER HARVESTING STR.

Design

- 1 Available crest length 20.00 M
- 2 Total catchment area 200.00 Ha
- 3 Hight of structure 1.80 M
- A Design discharge (By flood discharge method)
- A HYDRAULIC DESIGN
- Peak rate of run off in cum/sec.=
- $$Q = \frac{C I A}{36} \quad C = 0.40 \quad \text{Catchment Area} \quad 200.00$$
- $$Q = 9.78 \text{ cumsec} \quad K = \frac{L^3}{H}$$
- Say 9.8 cumsec
- L = 3800.00
H = 40.00
K = 37037.82
Tc = 0.0195K^{1/4}
64.25
I = 4.40

B HYDRAULIC DESIGN

- $$Q = 1.71L(h)^{3/2} \quad L = 20.00 \text{ mt length available at site}$$
- $$h = [Q/1.71L]^{2/3}$$
- h = 0.56 Say = 0.60
- Taking free board as 0.3 M
- Total d = 0.90

STRUCTURAL DESIGN

- (I) Top width of Head wall
- $$h/(p-1)^{0.5} = 0.53 \quad 0.53 \text{ say } = 0.80 \text{ M}$$
- (as per site condition where h = 0.60 m p = 2.30) 0.60 M
- p Specific gravity of stone masnory in cm = 2.3
- (ii) Bottom width of head wall
- $$b = h+H/(p-1)^{0.5} = 2.10 \quad \text{Say } = 1.70 \text{ M}$$
- H =height of head wall in meters = 1.8 m 1.80 M
- (iii) Length of head wall extension
- $$H+d+1 = 3.70 \quad 3.70 \text{ M}$$
- $$d = h+\text{free board} = 0.90 \quad 0.90 \text{ M}$$
- but as per side condition L/S M 1.5 R/S M 1.5 3.00 M
- (iv) Heigh of Head wall extension
- $$H+d = 2.70 \text{ M}$$
- (v) Botton width of HW ext. side wall & wing wall
- $$0.5(H+h) = 1.20 \quad 1.10 \text{ M}$$
- (vi) Top width of HW ext
- $$0.4H = 0.72 \quad 0.60 \text{ M}$$
- (vii) Length of Basin
- $$L.B = 0.75(H+d)+H = 3.83 \quad 2.95 \text{ M}$$
- (viii) Thickness of Basin =0.60m(incloding concreting)
- (ix) Height of side wall

H+d =	2.70	2.70 M
(x) Height of side wall =1.5h at W W joints		
1.5h =	0.90	1.10 M
(xi) Length of side wall = B. W. of H. W -B.W of H W E+L.B+ width of toe wall		
	4.00	
(xii) Length of wing wall = 2.25 h=	1.35	1.50 M
(xiii) Height of the wing wall =	0.90	1.10 M
(xiv) Top width of Head wall ext site wall wing wall = 0.60mt		
(xv) Width of toe wall=		0.45 M
(xvi) Height of toe wall =		0.30 M
(xvii) Height of wing wall at wing end =		1.10 M
(xviii) Bottem width of the side wall &wing wall taking as per Bottom width of the head wall ext as in item no.5= m		1.10 M
(xix) Depth of foundation taking as		2.00 M

STABILITY CHECK'S

a Top width of anicut =	0.80 m
b Bottm width of anicut =	1.70 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 =	0.60 m
H heigth of anicut =	1.80 m
L considering one metre =	1
S	2.3
C	0.6

Forces acting on a over flow gravity dam

Forces and mommt calculation's

considering one metre length of ancut 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 2x5	
					+ ve	-ve
1	$w_1 = a \times H \times L \times S$					
		3.31	3.31	2.20	7.29	
2	$w_2 = 1/2 \times (b-a) \times H \times L \times S$					
		1.86	1.86	1.13	2.11	
3	$p_1 = w h \times H$					
		1.08	1.08	0.90		0.97
4	$p_2 = w H^2 / 2 \times H$					
		1.62	1.62	0.60		0.97
5	$p_3 = c x w b x (H+h) / 2$					
		1.10	1.10	1.80		1.98
	TOTAL	4.07	2.70		9.39	3.93

Em=mr-mo

5.46

CHECKS IN OVERTURNING

Factor of satety agaist overturning

$Emr/Emo = +m/-m =$ Restoning moment/overturning moment

2.39

it is more than 1.50 hence structure is safe against overturning
SLINDING

Factor of safety against slinding

Ev/Eh = 1.51

it is more than 1.0 hence structure is safe against slinding

RUPTURE (safety against tension at the base)

X Relne Position of resultant measured from toe

x = Em/Ev = 1.34

e = b/2 - X -0.49

Ev/b (1+6e/b) 0.66

Ev/b (1-6e/b) 4.13

P max = 0.66

P min = 4.13

ABSTRACT OF COST

S.No	Particular	Qty.	Rate	Labour Rate	Unit	Amount
1	Excavation in soil dry or moist&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	16.66	71.00	71	cum	1182.86
2	Excavation in ordinary murram or earth mixed with bajri and kankar or boulder dry or moist&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	49.98	82.00	82	cum	4098.36
3	Excavation in disintegrated rock and or soft rock or hard bankar or compacted murrum dry or moist including dressing&disposal of exeavated matarual with intial lead of 30m and lift of 1.5m	99.96	130.00	130	cum	12994.80
4	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 50mm. HB	28.96	1743.00	248	cum	50477.28
5	Random rubble stone masonary in cement sand mortar(1:6) for foundation	114.04	1429.00	388	cum	162963.16
6	Random rubble stone masonary in cement sand mortar(1:6) forsuper structure	81.81	1534.00	493	cum	125501.91
7	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	114.24	138.00	62	sqm	15765.12
8	Cement concrete coping in cement mortar1:2:4.100mm thick	8.64	3467.00	583	cum	29951.41

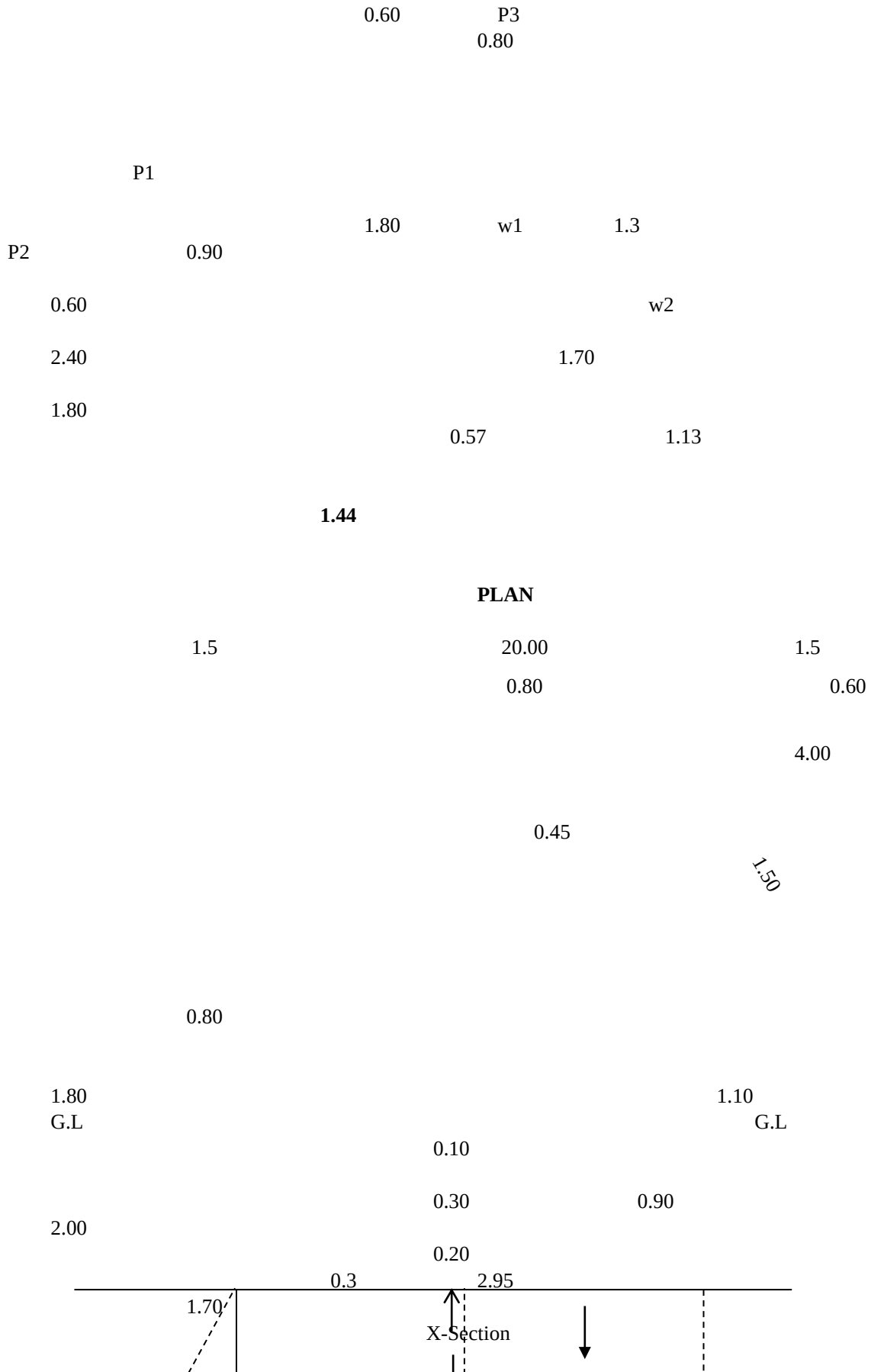
9	E/W for bind / embankment in dry or moist soil including laying on layers 1.5cm Breaking of clods sorting of grass pabbles etc and dressing in required profile when compacted manually or by plain roller with initial lead of 30mt and lift 1.5 mt (excluding)charges of watering and compaction					
	Hard soil 50%	112.50	85.00	85	cum	9562.50
	Ordinary murram 50%	112.50	96.00	96	cum	10800.00
10	Rehandling of cement beyond 100 m initial lead lead up to 200	24.76	44.00	44	mt.	1089.28
			TOTAL			424386.68
	MATERIAL					280775.81
	LABOUR					143610.87
			TOTAL			424386.68
	Add 3% Contingency Charges					12731.60
			TOTAL Rs.			437118.28
			Say			4.37

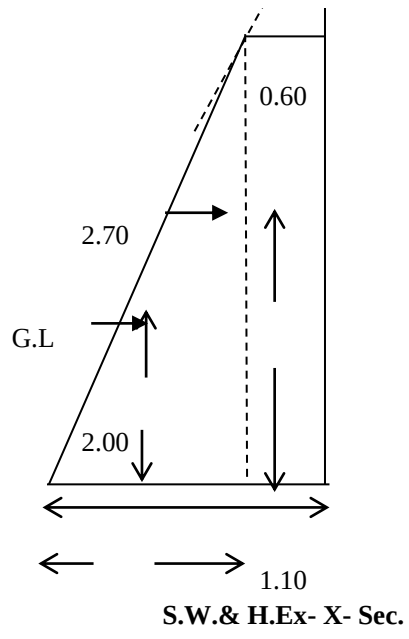
DETAILED ESTIMATE

S.No.	PARTICULAR	No.	LENGTH	WIDTH	HT/DEPTH	QUANTITY
1	Total Excavation					
	H.W.	1.00	20.00	1.70	2.00	68.00
	H.W.E.	2.00	3.00	1.10	2.00	13.20
	S.W.	2.00	4.00	1.10	2.00	17.60
	wing wall	2.00	1.50	1.10	2.00	6.60
	Toe wall	1.00	20.00	0.45	0.90	8.10
	Apron	1.00	20.00	2.95	0.90	53.10
				Total	(cu.m)	166.60
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		16.66
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		49.98

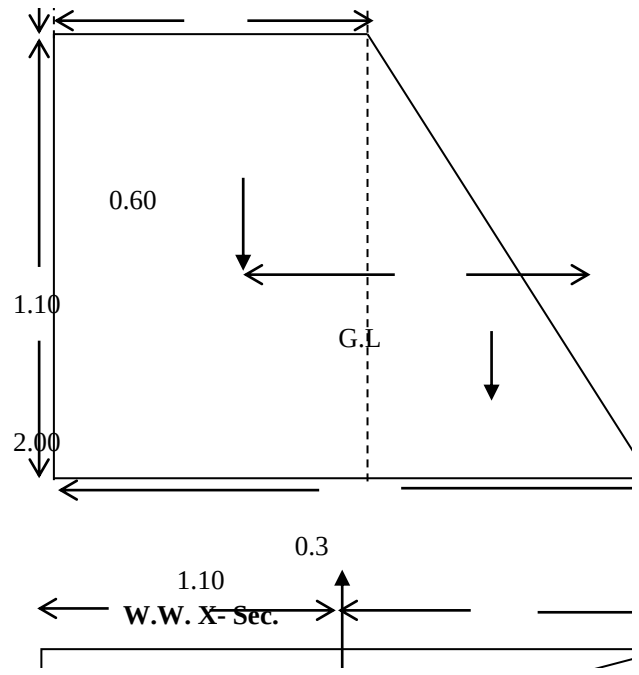
4	Excavation in disintegrated rock and or soft rock or hard bankar or compacted murrum dry or moist including dressing&disposal of exeavated matarual with intial lead of 30m and lift of 1.5m 60% of Total Excavation					
				Total		99.96
5	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 50mm. HB Total Excavation H.W.	1.00	20.00	1.70	0.30	10.20
	H.W.E.	2.00	3.00	1.10	0.30	1.98
	S.W.	2.00	4.00	1.10	0.30	2.64
	Wing Wall	2.00	1.50	1.10	0.30	0.99
	Toe Wall	1.00	20.00	0.45	0.15	1.35
	Apron	1.00	20.00	2.95	0.20	11.80
				Total		28.96
6	Random rubble stone masonry in cement sand mortar(1:6) for foundation					
	H.W.	1.00	20.00	1.70	1.70	57.80
	H.W.E.	2.00	3.00	1.10	1.70	11.22
	S.W.	2.00	4.00	1.10	1.70	14.96
	Wing Wall	2.00	1.50	1.10	1.70	5.61
	Toe Wall	1.00	20.00	0.45	0.75	6.75
	Apron	1.00	20.00	2.95	0.30	17.70
				Total		114.04
7	Random rubble stone masonry in cement sand mortar(1:6) forsuper structure					
	H.W.	1.00	20.00	1.25	1.80	45.00
	H.W.E	1.00	3.00	0.85	2.70	6.89
	S.W.	2.00	3.40	0.85	1.90	10.98
		2.00	0.60	0.85	2.70	2.75
		2.00	0.50	0.85	1.35	1.15
	Wing Wall	4.00	1.50	0.85	2.95	15.05
				Total		81.81
8	Cement plaster including smooth finishing in cement mortar (1:3)25mm thick					
	H.W.	1.00	20.00	1.80		36.00
		1.00	20.00	2.10		42.00
		1.00	20.00	0.30		6.00
	S.W.	2.00	0.80	0.90		1.44
		2.00	0.90	1.80		1.44
		2.00	3.40	1.90		12.92
		2.00	2.95	0.30		1.77
	Wing Wall	2.00	1.50	1.10		3.30
		2.00	0.85	1.10		1.87
	H.W.E.	1.00	3.00	0.50		1.50
	Toe Wall	1.00	20.00	0.30		6.00
				Total		114.24

9	Cement concrete coping in cement mortar 1:2:4.75 mm thick					
	H.W.	1.00	20.00	0.80	0.08	1.20
	S.W.	2.00	5.10	0.60	0.08	0.46
	Wing Wall	4.00	1.50	0.60	0.08	0.27
	H.W.E.	1.00	3.00	0.60	0.08	0.14
	Toe.Wall	1.00	20.00	0.45	0.08	0.68
	Apron	1.00	20.00	2.95	0.10	5.90
				Total		8.64
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					225
				Total		225





0.3



CHAPTER -VI
ANNUAL ACTION PLAN

A. PROJECT FUND

S. N.	NAME OF ACTIVITY	Unit	2010-11		2011-12		2012-13		2013-14		2014-15		TOTAL	
			FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR		FIFTH YEAR			
			PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN
I.	ADMINISTRATIVE COST (10%) (Honararium of Watershed Development Team, Secretary of WC, Office Expenses, Jeep Hiring etc.)			11.289		11.289		11.289		11.290		11.291		56.448
II	MONITORING (1%)			1.129		1.129		1.129		1.129		1.129		5.645
III	EVALUATION (1 %)						1.882		1.882		1.881			5.645
SUB TOTAL (I+II+III)				12.418		12.418		14.300		14.301		14.301		67.738
	W/S PREPARATORY PHASE													
IV	ENTRY POINT ACTIVITY (4 %) (Solar Light, Water Tank, Khel, Soak Pit, Handpump, Plateform, Safety Wall, Rain Water Harvesting Structure etc.)			19.500		3.079								22.579
V	TRAININGS & CAPACITY BUILDING (ICB) 5 %			5.645		5.645		5.645		5.645		5.644	28.224	28.224
VI	DETAILED PROJECT REPORT (1 %)			4.600		1.045							5.645	5.645
SUB TOTAL (IV+V+VI)				29.745		9.769		5.645		5.645		5.644		56.448
	WATERSHED WORK PHASE													
VII	NATURAL RESOURCE MANAGEMENT (NRM) (60 %)													
1	ARABLE CONSERVATION WORK													
i.	Earthen Bund TYPE "A"(SLOPE 0-1%)	meter			9507	7.80	9507	7.80	9507	7.80	9507	7.80	38027	31.182
ii.	Earthen Bund TYPE "B"(SLOPE 1-3%)	meter			10718	12.43	10718	12.43	10718	12.43	10718	12.43	42871	49.730
iii.	Earthen Bund TYPE "C"(SLOPE 3-5%)	meter			5751	10.75	5751	10.75	5751	10.75	5751	10.75	23002	43.014
iv.	Earthen Bund TYPE "D"(SLOPE 5-10%)	meter			2656	6.80	2656	6.80	2656	6.80	2656	6.80	10625	27.200
v.	Bund waste Weir	Nos			138	8.28	138	8.28	138	8.28	138	8.28	552	33.120
vi.	Waste weir TYPE "A"	Nos			27	3.51	27	3.51	27	3.51	27	3.51	108	14.040
vii.	Waste weir TYPE "B"	Nos			11	2.63	11	2.63	11	2.63	11	2.63	42	10.500
viii	Gully Control Structure "A"	Nos			13	1.30	13	1.30	13	1.30	13	1.30	52	5.200
ix.	Gully Control Structure "B"	Nos			7	0.96	7	0.96	7	0.96	7	0.96	29	3.857
x.	Gully Control Structure "C"	Nos			4	1.23	4	1.23	4	1.23	4	1.23	17	4.930
2	NON ARABLE CONSERVATION WORK													
i.	PASTURE DEVLOPMENT	hectare			30	8.85	30	8.85					60	35.400
ii.	DIVERSION CHANNEL	meter			1612	0.85	1612	0.85	1612	0.85	1612	0.85	6448	3.417
iii.	WHS Type "A"	Nos			4	2.71	4	2.71	4	2.71	4	2.71	16	10.848
iv.	WHS Type "B"	Nos			3	3.06	3	3.06	3	3.06	3	3.06	11	12.221
v.	STAGGERD TRENCHES	hectare			4	0.94	4	0.94	4	0.94	4	0.94	17	3.740
vi.	LOOSE STONE CHECK DAM	Nos			49	1.42	49	1.42	49	1.42	49	1.42	196	5.684

S. N.	NAME OF ACTIVITY	Unit	2010-11		2011-12		2012-13		2013-14		2014-15		TOTAL	
			FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR		FIFTH YEAR			
			PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN
3	DRAINAGE LINE TREATMENT				0	0.00	0	0.00	0	0.00	0	0.00		
i.	RETANING/SAFTY WALL 'A'	Nos			3	1.28	3	1.28	3	1.28	3	1.28	13	5.135
ii.	RETANING/SAFTY WALL 'B'	Nos			3	1.35	3	1.35	3	1.35	3	1.35	10	5.400
iii.	RETANING/SAFTY WALL 'C'	Nos			1	0.91	1	0.91	1	0.91	1	0.91	4	3.640
iv.	RETANING/SAFTY WALL 'D'	Nos			1	0.60	1	0.60	1	0.60	1	0.60	2	2.380
v.	RETANING/SAFTY WALL 'E'	Nos			0	0.51	0	0.51	0	0.51	0	0.51	1	2.050
vi.	MASONARY WATER HARVESTING STRUCTURE 'A'	Nos			1	2.17	1	2.17	1	2.17	1	2.17	4	8.680
vii.	MASONARY WATER HARVESTING STRUCTURE 'B'	Nos			1	2.15	1	2.15	1	2.15	1	2.15	3	8.580
viii.	MASONARY WATER HARVESTING STRUCTURE 'C'	Nos			1	2.19	1	2.19	1	2.19	1	2.19	2	8.740
SUB TOTAL (Natural Resource Management)						84.672		84.672		75.822		75.822		338.688
VIII	LIVELIHOOD/MICROENTERPRISES													
a.	LIVELIHOOD ACTIVIVITIES FOR ASSET LESS PERSON													
b.	LIVESTOCK MANAGEMENT (A.I/ CAMP/OTHER)													
c.	PRODUCTION SYSTEM & MICROENTERPRISES (For Kharif, Rabi Season and for Horticulture Plantation)													
SUB TOTAL (VIII a,b,c) 15 %						21.17		21.17		21.17		21.17		84.672
IX	CONSOLIDATED PHASE (3 %)											16.934		16.934
	TOTAL PROJECT FUND			42.163		128.027		125.785		116.936		133.870		564.480

B.	CONVERGENCE FUND- WORKS TO BE DONE BY AGRICULTURE/HORTICULTURE DEPARTMENT													
A.	Agriculture													
1	Free Seed Minitkit Distribution	Nos.	244	0.000	244	0	244	0	244	0	244	0	1221	0
2	Crop Demonstration	Nos.	19	0.376	19	0.376	19	0.376	19	0.376	19	0.376	94	1.880
3	Certified Seed Distribution	Nos.	334	0.000	334	0	334	0	334	0	334	0	1669	0.000
4	Subsidy on Pipe Line	Meter	3140	0.582	3140	0.582	3140	0.582	3140	0.582	3140	0.582	15700	2.910
5	Subsidy on Gypsum	M.ton	98	0.682	98	0.682	98	0.682	98	0.682	98	0.682	490	3.410
6	Establishment of Farmers field	Nos.	10	0.416	10	0.416	10	0.416	10	0.416	10	0.416	52	2.080
7	Soil and Water Testing and Distribution of Soil Health Card	Nos.	289	0.000	289	0	289	0	289	0	289	0	1446	0.000
8	Subsidy on Plant Protection Equipment	Nos.	23	0.092	23	0.092	23	0.092	23	0.092	23	0.092	113	0.460
9	Subsidy on Agriculture Implements	No.	15	0.450	15	0.45	15	0.45	15	0.45	15	0.45	75	2.250
B.	Horticulture													
1	Medicinal Plant (Alovera)	Hect.	2	0.000	2	0	2	0	2	0	2	0	10	0.000
2	ND	Nos.	20	1.386	20	1.386	20	1.386	20	1.386	20	1.386	98	6.930
3	Subsidy on Drip Irrigation	No.	10	9.800	10	9.8	10	9.8	10	9.8	10	9.8	49	49.000
4	Subsidy on Fruit Orchard	Hect.	6.4	1.452	6.4	1.452	6.4	1.452	6.4	1.452	6.4	1.452	32	7.260
TOTAL CONVERGENCE FUND														76.18
GRAND TOTAL FOR PROJECT INCLUDING CONVERGENCE														640.660

CHAPTER -V
ABSTRACT OF COST

S. N.	NAME OF ACTIVITY	UNIT	QUANTITY	RATE	AMOUNT	REFERENCE
I.	ADMINISTRATIVE COST (10%) (Honarium of Watershed Development Team, Secretary of WC, Office Expenses, Jeep Hiring etc.)				56.448	
II	MONITORING (1%)				5.645	
III	EVALUATION (1 %)				5.645	
SUB TOTAL (I+II+III)					67.738	
	<u>W/S PREPARATORY PHASE</u>					
IV	ENTRY POINT ACTIVITY (4 %) (Solar Light, Water Tank, Khel, Soak Pit, Handpump, Plateform, Safety Wall, Rain Water Harvesting Structure etc.)				22.579	Estimate No. 1 to 7
V	TRAININGS & CAPACITY BUILDING (ICB) 5 %				28.224	
VI	DETAILED PROJECT REPORT (1 %)				5.645	
SUB TOTAL (IV+V+VI)					56.448	
	<u>WATERSHED WORK PHASE</u>					
VII	NATURAL RESOURCE MANAGEMENT (NRM) (60 %)					
1	ARABLE CONSERVATION WORK					
i.	Earthen Bund TYPE "A"(SLOPE 0-1%)	meter	38027	82	3118214	Estimate No. 8
ii.	Earthen Bund TYPE "B"(SLOPE 1-3%)	meter	42871	116	4973036	Estimate No. 9
iii.	Earthen Bund TYPE "C"(SLOPE 3-5%)	meter	23002	187	4301374	Estimate No. 10
iv.	Earthen Bund TYPE "D"(SLOPE 5-10%)	meter	10625	256	2720000	Estimate No. 11
v.	Bund waste Weir	Nos	552	6000	3312000	Estimate No. 12
vi.	Waste weir TYPE "A"	Nos	108	13000	1404000	Estimate No. 13
vii.	Waste weir TYPE "B"	Nos	42	25000	1050000	Estimate No. 14
viii.	Gully Control Structure "A"	Nos	52	10000	520000	Estimate No. 15
ix.	Gully Control Structure "B"	Nos	29	13300	385700	Estimate No. 16
x.	Gully Control Structure "C"	Nos	17	29000	493000	Estimate No. 17
2	NON ARABLE CONSERVATION WORK					
i.	PASTURE DEVELOPMENT	hectare	60	59000	3540000	Estimate No. 18
ii.	DIVERSION CHANNEL	meter	6448	53	341744	Estimate No. 19
iii.	WHS Type "A"	Nos	16	67800	1084800	Estimate No. 20
iv.	WHS Type "B"	Nos	11	111100	1222100	Estimate No. 21
v.	STAGGERD TRENCHES	hectare	17	22000	374000	Estimate No. 22
vi.	LOOSE STONE CHECK DAM	Nos	196	2900	568400	Estimate No. 23
3	DRAINAGE LINE TREATMENT					
i.	RETANING/SAFTY WALL 'A'	Nos	13	39500	513500	Estimate No. 24
ii.	RETANING/SAFTY WALL 'B'	Nos	10	54000	540000	Estimate No. 25
iii.	RETANING/SAFTY WALL 'C'	Nos	4	91000	364000	Estimate No. 26
iv.	RETANING/SAFTY WALL 'D'	Nos	2	119000	238000	Estimate No. 27
v.	RETANING/SAFTY WALL 'E'	Nos	1	205000	205000	Estimate No. 28
vi.	MASONARY WATER HARVESTING STRUCTURE 'A'	Nos	4	217000	868000	Estimate No. 29
vii.	MASONARY WATER HARVESTING STRUCTURE 'B'	Nos	3	286000	858000	Estimate No. 30
viii.	MASONARY WATER HARVESTING STRUCTURE 'C'	Nos	2	437000	874000	Estimate No. 31
SUB TOTAL (Natural Resource Management)					338.688	

S. N.	NAME OF ACTIVITY	UNIT	QUANTITY	RATE	AMOUNT	REFERENCE
VIII	LIVELIHOOD/MICROENTERPRISES					
a.	LIVELIHOOD ACTIVITIES FOR ASSET LESS PERSON (Karigar, Tailoring, white Wash & Paint, Masala Udoyg, Bicycle, Mobile, Pottery, Ara Tari, Computer etc.)					
b.	LIVESTOCK MANAGEMENT (A.I/ CAMP/OTHER)					
c.	PRODUCTION SYSTEM & MICROENTERPRISES (For Kharif, Rabi Season and for Horticulture Plantation)					
	SUB TOTAL (VIII a,b,c) 15 %				84.672	
IX	CONSOLIDATED PHASE (3 %)				16.934	
	GRAND TOTAL				564.480	

WORKS TO BE DONE BY AGRICULTURE/HORTICULTURE DEPARTMENT THROUGH CONVERGENCE

S. No.	Activity	Unit	Physical Target	Amount
A.	Agriculture			
1	Free Seed Minitkit Distribution	Nos.	1221	
2	Crop Demonstration	Nos.	94	1.880
3	Certified Seed Distribution	Nos.	1669	
4	Subsidy on Pipe Line	Meter	15700	2.910
5	Subsidy on Gypsum	M.ton	490	3.410
6	Establishment of Farmers field	Nos.	52	2.080
7	Soil and Water Testing and Distribution of Soil Health Card	Nos.	1446	
8	Subsidy on Plant Protection Equipment	Nos.	113	0.460
9	Subsidy on Agriculture Implements	No.	75	2.250
B.	Horticulture			
1	Medicinal Plant (Alovera)	Hect.	10	
2	Subsidy on Sprinkler	Nos.	98	6.930
3	Subsidy on Drip Irrigation	No.	49	49.000
4	Subsidy on Fruit Orchard	Hect.	32	7.260
TOTAL				76.180
GRAND TOTAL FOR PROJECT INCLUDING CONVERGENCE				640.660

A. WATERSHED COMMITTEE DOBLI

268

32.16

S. N.	NAME OF ACTIVITY	Unit	Qunatity	Rate	Amount	Reference
	WATERSHED WORK PHASE					
VII	NATURAL RESOURCE MANAGEMENT (NRM) (60 %)					
1	ARABLE CONSERVATION WORK					
i.	Earthen Bund TYPE "A"(SLOPE 0-1%)	meter	910	82	74620.00	Estimate No. 8
ii.	Earthen Bund TYPE "B"(SLOPE 1-3%)	meter	2250	116	261000.00	Estimate No. 9
iii.	Earthen Bund TYPE "C"(SLOPE 3-5%)	meter	1350	187	252450.00	Estimate No. 10
iv.	Earthen Bund TYPE "D"(SLOPE 5-10%)	meter	780	256	199680.00	Estimate No. 11
v.	Bund waste Weir	Nos	67	6000	402000.00	Estimate No. 12
vi.	Waste weir TYPE "A"	Nos	2	13000	26000.00	Estimate No. 13
vii.	Waste weir TYPE "B"	Nos	1	25000	25000.00	Estimate No. 14
viii.	Gully Control Structure "A"	Nos	1	10000	10000.00	Estimate No. 15
ix.	Gully Control Structure "B"	Nos	1	13300	13300.00	Estimate No. 16
x.	Gully Control Structure "C"	Nos	1	29000	29000.00	Estimate No. 17
2	NON ARABLE CONSERVATION WORK					
i.	PASTURE DEVELOPMENT	hectare	5.00	59000	295000.00	Estimate No. 18
ii.	DIVERSION CHANNEL	meter	148.00	53	7844.00	Estimate No. 19
iii.	WHS Type "A"	Nos	1	67800	67800.00	Estimate No. 20
iv.	WHS Type "B"	Nos	1	111100	111100.00	Estimate No. 21
v.	STAGGERD TRENCHES	hectare	3.00	22000	66000.00	Estimate No. 22
vi.	LOOSE STONE CHECK DAM	Nos	12	2900	34800.00	Estimate No. 23
3	DRAINAGE LINE TREATMENT					
i.	RETANING/SAFTY WALL 'A'	Nos		39500	0.00	Estimate No. 24
ii.	RETANING/SAFTY WALL 'B'	Nos	1	54000	54000.00	Estimate No. 25
iii.	RETANING/SAFTY WALL 'C'	Nos		91000	0.00	Estimate No. 26
iv.	RETANING/SAFTY WALL 'D'	Nos		119000	0.00	Estimate No. 27
v.	RETANING/SAFTY WALL 'E'	Nos		205000	0.00	Estimate No. 28
vi.	MASONARY WATER HARVESTING STRUCTURE 'A'	Nos		217000	0.00	Estimate No. 29
vii.	MASONARY WATER HARVESTING STRUCTURE 'B'	Nos		286000	0.00	Estimate No. 30
viii.	MASONARY WATER HARVESTING STRUCTURE 'C'	Nos		437000	0.00	Estimate No. 31
SUB TOTAL (Natural Resource Management)					19.296	lacs

B. WATERSHED COMMITTEE MADHOGARH

S. N.	NAME OF ACTIVITY	Unit	Qunatity	Rate	Amount	Reference
	<u>WATERSHED WORK PHASE</u>					
VII	NATURAL RESOURCE MANAGEMENT (NRM) (60 %)					
1	ARABLE CONSERVATION WORK					
i.	Earthen Bund TYPE "A"(SLOPE 0-1%)	meter	8777	82	719714.00	Estimate No. 8
ii.	Earthen Bund TYPE "B"(SLOPE 1-3%)	meter	9789	116	1135524.00	Estimate No. 9
iii.	Earthen Bund TYPE "C"(SLOPE 3-5%)	meter	5315	187	993905.00	Estimate No. 10
iv.	Earthen Bund TYPE "D"(SLOPE 5-10%)	meter	1980	256	506880.00	Estimate No. 11
v.	Bund waste Weir	Nos	97	6000	582000.00	Estimate No. 12
vi.	Waste weir TYPE "A"	Nos	6	13000	78000.00	Estimate No. 13
vii.	Waste weir TYPE "B"	Nos	3	25000	75000.00	Estimate No. 14
viii.	Gully Control Structure "A"	Nos	9	10000	90000.00	Estimate No. 15
ix.	Gully Control Structure "B"	Nos	3	13300	39900.00	Estimate No. 16
x.	Gully Control Structure "C"	Nos	2	29000	58000.00	Estimate No. 17
2	NON ARABLE CONSERVATION WORK					
i.	PASTURE DEVLOPMENT	hectare	5.00	59000	295000.00	Estimate No. 18
ii.	DIVERSION CHANNEL	meter	3300	53	174900.00	Estimate No. 19
iii.	WHS Type "A"	Nos	2	67800	135600.00	Estimate No. 20
iv.	WHS Type "B"	Nos	1	111100	111100.00	Estimate No. 21
v.	STAGGERD TRENCHES	hectare	3.00	22000	66000.00	Estimate No. 22
vi.	LOOSE STONE CHECK DAM	Nos	30	2900	87000.00	Estimate No. 23
3	DRAINAGE LINE TREATMENT					
i.	RETANING/SAFTY WALL 'A'	Nos	3	39500	118500.00	Estimate No. 24
ii.	RETANING/SAFTY WALL 'B'	Nos	2	54000	108000.00	Estimate No. 25
iii.	RETANING/SAFTY WALL 'C'	Nos	1	91000	91000.00	Estimate No. 26
iv.	RETANING/SAFTY WALL 'D'	Nos		119000	0.00	Estimate No. 27
v.	RETANING/SAFTY WALL 'E'	Nos		205000	0.00	Estimate No. 28
vi.	MASONARY WATER HARVESTING STRUCTURE 'A'	Nos	1	217000	217000.00	Estimate No. 29
vii.	MASONARY WATER HARVESTING STRUCTURE 'B'	Nos		286000	0.00	Estimate No. 30
viii.	MASONARY WATER HARVESTING STRUCTURE 'C'	Nos	1	437000	437000.00	Estimate No. 31
SUB TOTAL (Natural Resource Management)					61.200	lacs

C. WATERSHED COMMITTEE TOONGA

S. N.	NAME OF ACTIVITY	Unit	Qunatity	Rate	Amount	Reference
	<u>WATERSHED WORK PHASE</u>					
VII	NATURAL RESOURCE MANAGEMENT (NRM) (60 %)					
1	ARABLE CONSERVATION WORK					
i.	Earthen Bund TYPE "A"(SLOPE 0-1%)	meter	7621	82	624922.00	Estimate No. 8
ii.	Earthen Bund TYPE "B"(SLOPE 1-3%)	meter	8445	116	979620.00	Estimate No. 9
iii.	Earthen Bund TYPE "C"(SLOPE 3-5%)	meter	5555	187	1038785.00	Estimate No. 10
iv.	Earthen Bund TYPE "D"(SLOPE 5-10%)	meter	3025	256	774400.00	Estimate No. 11
v.	Bund waste Weir	Nos	89	6000	534000.00	Estimate No. 12
vi.	Waste weir TYPE "A"	Nos	22	13000	286000.00	Estimate No. 13
vii.	Waste weir TYPE "B"	Nos	6	25000	150000.00	Estimate No. 14
viii.	Gully Control Structure "A"	Nos	15	10000	150000.00	Estimate No. 15
ix.	Gully Control Structure "B"	Nos	9	13300	119700.00	Estimate No. 16
x.	Gully Control Structure "C"	Nos	4	29000	116000.00	Estimate No. 17
2	NON ARABLE CONSERVATION WORK					
i.	PASTURE DEVLOPMENT	hectare	10.00	59000	590000.00	Estimate No. 18
ii.	DIVERSION CHANNEL	meter		53	0.00	Estimate No. 19
iii.	WHS Type "A"	Nos	1	67800	67800.00	Estimate No. 20
iv.	WHS Type "B"	Nos	1	111100	111100.00	Estimate No. 21
v.	STAGGERD TRENCHES	hectare	2.00	22000	44000.00	Estimate No. 22
vi.	LOOSE STONE CHECK DAM	Nos	41	2900	118900.00	Estimate No. 23
3	DRAINAGE LINE TREATMENT					
i.	RETANING/SAFTY WALL 'A'	Nos	2	39500	79000.00	Estimate No. 24
ii.	RETANING/SAFTY WALL 'B'	Nos	2	54000	108000.00	Estimate No. 25
iii.	RETANING/SAFTY WALL 'C'	Nos	1	91000	91000.00	Estimate No. 26
iv.	RETANING/SAFTY WALL 'D'	Nos		119000	0.00	Estimate No. 27
v.	RETANING/SAFTY WALL 'E'	Nos		205000	0.00	Estimate No. 28
vi.	MASONARY WATER HARVESTING STRUCTURE 'A'	Nos		217000	0.00	Estimate No. 29
vii.	MASONARY WATER HARVESTING STRUCTURE 'B'	Nos		286000	0.00	Estimate No. 30
viii.	MASONARY WATER HARVESTING STRUCTURE 'C'	Nos		437000	0.00	Estimate No. 31
SUB TOTAL (Natural Resource Management)					59.832	lacs

D. WATERSHED COMMITTEE KARANGARH

S. N.	NAME OF ACTIVITY	Unit	Qunatity	Rate	Amount	Reference
	<u>WATERSHED WORK PHASE</u>					
VII	NATURAL RESOURCE MANAGEMENT (NRM) (60 %)					
1	ARABLE CONSERVATION WORK					
i.	Earthen Bund TYPE "A"(SLOPE 0-1%)	meter	4200	82	344400.00	Estimate No. 8
ii.	Earthen Bund TYPE "B"(SLOPE 1-3%)	meter	6800	116	788800.00	Estimate No. 9
iii.	Earthen Bund TYPE "C"(SLOPE 3-5%)	meter	3400	187	635800.00	Estimate No. 10
iv.	Earthen Bund TYPE "D"(SLOPE 5-10%)	meter	700	256	179200.00	Estimate No. 11
v.	Bund waste Weir	Nos	77	6000	462000.00	Estimate No. 12
vi.	Waste weir TYPE "A"	Nos	11	13000	143000.00	Estimate No. 13
vii.	Waste weir TYPE "B"	Nos	5	25000	125000.00	Estimate No. 14
viii.	Gully Control Structure "A"	Nos	9	10000	90000.00	Estimate No. 15
ix.	Gully Control Structure "B"	Nos	4	13300	53200.00	Estimate No. 16
x.	Gully Control Structure "C"	Nos	2	29000	58000.00	Estimate No. 17
2	NON ARABLE CONSERVATION WORK					
i.	PASTURE DEVLOPMENT	hectare	10.00	59000	590000.00	Estimate No. 18
ii.	DIVERSION CHANNEL	meter		53	0.00	Estimate No. 19
iii.	WHS Type "A"	Nos		67800	0.00	Estimate No. 20
iv.	WHS Type "B"	Nos	1	111100	111100.00	Estimate No. 21
v.	STAGGERD TRENCHES	hectare	2.00	22000	44000.00	Estimate No. 22
vi.	LOOSE STONE CHECK DAM	Nos	32	2900	92800.00	Estimate No. 23
3	DRAINAGE LINE TREATMENT					
i.	RETANING/SAFTY WALL 'A'	Nos	1	39500	39500.00	Estimate No. 24
ii.	RETANING/SAFTY WALL 'B'	Nos	1	54000	54000.00	Estimate No. 25
iii.	RETANING/SAFTY WALL 'C'	Nos		91000	0.00	Estimate No. 26
iv.	RETANING/SAFTY WALL 'D'	Nos		119000	0.00	Estimate No. 27
v.	RETANING/SAFTY WALL 'E'	Nos		205000	0.00	Estimate No. 28
vi.	MASONARY WATER HARVESTING STRUCTURE 'A'	Nos	2	217000	434000.00	Estimate No. 29
vii.	MASONARY WATER HARVESTING STRUCTURE 'B'	Nos	2	286000	572000.00	Estimate No. 30
viii.	MASONARY WATER HARVESTING STRUCTURE 'C'	Nos		437000	0.00	Estimate No. 31
SUB TOTAL (Natural Resource Management)					48.168	lacs

E. WATERSHED COMMITTEE ANATPURA

S. N.	NAME OF ACTIVITY	Unit	Qunatity	Rate	Amount	Reference
	<u>WATERSHED WORK PHASE</u>					
VII	NATURAL RESOURCE MANAGEMENT (NRM) (60 %)				15.264	
1	ARABLE CONSERVATION WORK					
i.	Earthen Bund TYPE "A"(SLOPE 0-1%)	meter	3751	82	307582.00	Estimate No. 8
ii.	Earthen Bund TYPE "B"(SLOPE 1-3%)	meter	3230	116	374680.00	Estimate No. 9
iii.	Earthen Bund TYPE "C"(SLOPE 3-5%)	meter	698	187	130526.00	Estimate No. 10
iv.	Earthen Bund TYPE "D"(SLOPE 5-10%)	meter	0	256	0.00	Estimate No. 11
v.	Bund waste Weir	Nos	41	6000	246000.00	Estimate No. 12
vi.	Waste weir TYPE "A"	Nos	9	13000	117000.00	Estimate No. 13
vii.	Waste weir TYPE "B"	Nos	4	25000	100000.00	Estimate No. 14
viii	Gully Control Structure "A"	Nos	2	10000	20000.00	Estimate No. 15
ix.	Gully Control Structure "B"	Nos	1	13300	13300.00	Estimate No. 16
x.	Gully Control Structure "C"	Nos	1	29000	29000.00	Estimate No. 17
2	NON ARABLE CONSERVATION WORK					
i.	PASTURE DEVLOPMENT	hectare		59000	0.00	Estimate No. 18
ii.	DIVERSION CHANNEL	meter		53	0.00	Estimate No. 19
iii.	WHS Type "A"	Nos		67800	0.00	Estimate No. 20
iv.	WHS Type "B"	Nos	1	111100	111100.00	Estimate No. 21
v.	STAGGERD TRENCHES	hectare		22000	0.00	Estimate No. 22
vi.	LOOSE STONE CHECK DAM	Nos	13	2900	37700.00	Estimate No. 23
3	DRAINAGE LINE TREATMENT					
i.	RETANING/SAFTY WALL 'A'	Nos	1	39500	39500.00	Estimate No. 24
ii.	RETANING/SAFTY WALL 'B'	Nos		54000	0.00	Estimate No. 25
iii.	RETANING/SAFTY WALL 'C'	Nos		91000	0.00	Estimate No. 26
iv.	RETANING/SAFTY WALL 'D'	Nos		119000	0.00	Estimate No. 27
v.	RETANING/SAFTY WALL 'E'	Nos		205000	0.00	Estimate No. 28
vi.	MASONARY WATER HARVESTING STRUCTURE 'A'	Nos		217000	0.00	Estimate No. 29
vii.	MASONARY WATER HARVESTING STRUCTURE 'B'	Nos		286000	0.00	Estimate No. 30
viii	MASONARY WATER HARVESTING STRUCTURE 'C'	Nos		437000	0.00	Estimate No. 31
SUB TOTAL (Natural Resource Management)					15.264	

F. WATERSHED COMMITTEE BHUDLA

S. N.	NAME OF ACTIVITY	Unit	Qunatity	Rate	Amount	Reference
	<u>WATERSHED WORK PHASE</u>					
VII	NATURAL RESOURCE MANAGEMENT (NRM) (60 %)					
1	ARABLE CONSERVATION WORK					
i.	Earthen Bund TYPE "A"(SLOPE 0-1%)	meter	7081	82	580642.00	Estimate No. 8
ii.	Earthen Bund TYPE "B"(SLOPE 1-3%)	meter	5123	116	594268.00	Estimate No. 9
iii.	Earthen Bund TYPE "C"(SLOPE 3-5%)	meter	3589	187	671143.00	Estimate No. 10
iv.	Earthen Bund TYPE "D"(SLOPE 5-10%)	meter	592	256	151552.00	Estimate No. 11
v.	Bund waste Weir	Nos	56	6000	336000.00	Estimate No. 12
vi.	Waste weir TYPE "A"	Nos	16	13000	208000.00	Estimate No. 13
vii.	Waste weir TYPE "B"	Nos	6	25000	150000.00	Estimate No. 14
viii	Gully Control Structure "A"	Nos	3	10000	30000.00	Estimate No. 15
ix.	Gully Control Structure "B"	Nos	2	13300	26600.00	Estimate No. 16
x.	Gully Control Structure "C"	Nos	1	29000	29000.00	Estimate No. 17
2	NON ARABLE CONSERVATION WORK					
i.	PASTURE DEVLOPMENT	hectare	15.00	59000	885000.00	Estimate No. 18
ii.	DIVERSION CHANNEL	meter	2200	53	116600.00	Estimate No. 19
iii.	WHS Type "A"	Nos	6	67800	406800.00	Estimate No. 20
iv.	WHS Type "B"	Nos	3	111100	333300.00	Estimate No. 21
v.	STAGGERD TRENCHES	hectare	2.00	22000	44000.00	Estimate No. 22
vi.	LOOSE STONE CHECK DAM	Nos	26	2900	75400.00	Estimate No. 23
3	DRAINAGE LINE TREATMENT					
i.	RETANING/SAFTY WALL 'A'	Nos	3	39500	118500.00	Estimate No. 24
ii.	RETANING/SAFTY WALL 'B'	Nos	2	54000	108000.00	Estimate No. 25
iii.	RETANING/SAFTY WALL 'C'	Nos	1	91000	91000.00	Estimate No. 26
iv.	RETANING/SAFTY WALL 'D'	Nos	1	119000	119000.00	Estimate No. 27
v.	RETANING/SAFTY WALL 'E'	Nos	1	205000	205000.00	Estimate No. 28
vi.	MASONARY WATER HARVESTING STRUCTURE 'A'	Nos		217000	0.00	Estimate No. 29
vii.	MASONARY WATER HARVESTING STRUCTURE 'B'	Nos		286000	0.00	Estimate No. 30
viii	MASONARY WATER HARVESTING STRUCTURE 'C'	Nos	1	437000	437000.00	Estimate No. 31
SUB TOTAL (Natural Resource Management)					57.168	lacs

G. WATERSHED COMMITTEE RAJPURA PATALWAS

S. N.	NAME OF ACTIVITY	Unit	Qunatity	Rate	Amount	Reference
	<u>WATERSHED WORK PHASE</u>					
VII	NATURAL RESOURCE MANAGEMENT (NRM) (60 %)				77.760	
1	ARABLE CONSERVATION WORK					
i.	Earthen Bund TYPE "A"(SLOPE 0-1%)	meter	5687	82	466334.00	Estimate No. 8
ii.	Earthen Bund TYPE "B"(SLOPE 1-3%)	meter	7234	116	839144.00	Estimate No. 9
iii.	Earthen Bund TYPE "C"(SLOPE 3-5%)	meter	3095	187	578765.00	Estimate No. 10
iv.	Earthen Bund TYPE "D"(SLOPE 5-10%)	meter	3548	256	908288.00	Estimate No. 11
v.	Bund waste Weir	Nos	125	6000	750000.00	Estimate No. 12
vi.	Waste weir TYPE "A"	Nos	42	13000	546000.00	Estimate No. 13
vii.	Waste weir TYPE "B"	Nos	17	25000	425000.00	Estimate No. 14
viii.	Gully Control Structure "A"	Nos	13	10000	130000.00	Estimate No. 15
ix.	Gully Control Structure "B"	Nos	9	13300	119700.00	Estimate No. 16
x.	Gully Control Structure "C"	Nos	6	29000	174000.00	Estimate No. 17
2	NON ARABLE CONSERVATION WORK					
i.	PASTURE DEVLOPMENT	hectare	15.00	59000	885000.00	Estimate No. 18
ii.	DIVERSION CHANNEL	meter	800	53	42400.00	Estimate No. 19
iii.	WHS Type "A"	Nos	6	67800	406800.00	Estimate No. 20
iv.	WHS Type "B"	Nos	3	111100	333300.00	Estimate No. 21
v.	STAGGERD TRENCHES	hectare	5.00	22000	110000.00	Estimate No. 22
vi.	LOOSE STONE CHECK DAM	Nos	42	2900	121800.00	Estimate No. 23
3	DRAINAGE LINE TREATMENT					
i.	RETANING/SAFTY WALL 'A'	Nos	3	39500	118500.00	Estimate No. 24
ii.	RETANING/SAFTY WALL 'B'	Nos	2	54000	108000.00	Estimate No. 25
iii.	RETANING/SAFTY WALL 'C'	Nos	1	91000	91000.00	Estimate No. 26
iv.	RETANING/SAFTY WALL 'D'	Nos	1	119000	119000.00	Estimate No. 27
v.	RETANING/SAFTY WALL 'E'	Nos		205000	0.00	Estimate No. 28
vi.	MASONARY WATER HARVESTING STRUCTURE 'A'	Nos	1	217000	217000.00	Estimate No. 29
vii.	MASONARY WATER HARVESTING STRUCTURE 'B'	Nos	1	286000	286000.00	Estimate No. 30
viii.	MASONARY WATER HARVESTING STRUCTURE 'C'	Nos		437000	0.00	Estimate No. 31
SUB TOTAL (Natural Resource Management)					77.760	lacs

CHAPTER -VI
ANNUAL ACTION PLAN

A. PROJECT FUND

S. N.	NAME OF ACTIVITY	Unit	2010-11		2011-12		2012-13		2013-14		2014-15		TOTAL	
			FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR		FIFTH YEAR			
			PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN
I.	ADMINISTRATIVE COST (10%) (Honararium of Watershed Development Team, Secretary of WC, Office Expenses, Jeep Hiring etc.)			11.289		11.289		11.289		11.290		11.291		56.448
II	MONITORING (1%)			1.129		1.129		1.129		1.129		1.129		5.645
III	EVALUATION (1 %)						1.882		1.882		1.881			5.645
SUB TOTAL (I+II+III)				12.418		12.418		14.300		14.301		14.301		67.738
	W/S PREPARATORY PHASE													
IV	ENTRY POINT ACTIVITY (4 %) (Solar Light, Water Tank, Khel, Soak Pit, Handpump, Plateform, Safety Wall, Rain Water Harvesting Structure etc.)			19.500		3.079								22.579
V	TRAININGS & CAPACITY BUILDING (ICB) 5 %			5.645		5.645		5.645		5.645		5.644	28.224	28.224
VI	DETAILED PROJECT REPORT (1 %)			4.600		1.045							5.645	5.645
SUB TOTAL (IV+V+VI)				29.745		9.769		5.645		5.645		5.644		56.448
	WATERSHED WORK PHASE													
VII	NATURAL RESOURCE MANAGEMENT (NRM) (60 %)													
1	ARABLE CONSERVATION WORK													
i.	Earthen Bund TYPE "A"(SLOPE 0-1%)	meter			9507	7.80	9507	7.80	9507	7.80	9507	7.80	38027	31.182
ii.	Earthen Bund TYPE "B"(SLOPE 1-3%)	meter			10718	12.43	10718	12.43	10718	12.43	10718	12.43	42871	49.730
iii.	Earthen Bund TYPE "C"(SLOPE 3-5%)	meter			5751	10.75	5751	10.75	5751	10.75	5751	10.75	23002	43.014
iv.	Earthen Bund TYPE "D"(SLOPE 5-10%)	meter			2656	6.80	2656	6.80	2656	6.80	2656	6.80	10625	27.200
v.	Bund waste Weir	Nos			138	8.28	138	8.28	138	8.28	138	8.28	552	33.120
vi.	Waste weir TYPE "A"	Nos			27	3.51	27	3.51	27	3.51	27	3.51	108	14.040
vii.	Waste weir TYPE "B"	Nos			11	2.63	11	2.63	11	2.63	11	2.63	42	10.500
viii	Gully Control Structure "A"	Nos			13	1.30	13	1.30	13	1.30	13	1.30	52	5.200
ix.	Gully Control Structure "B"	Nos			7	0.96	7	0.96	7	0.96	7	0.96	29	3.857
x.	Gully Control Structure "C"	Nos			4	1.23	4	1.23	4	1.23	4	1.23	17	4.930
2	NON ARABLE CONSERVATION WORK													
i.	PASTURE DEVLOPMENT	hectare			30	8.85	30	8.85					60	35.400
ii.	DIVERSION CHANNEL	meter			1612	0.85	1612	0.85	1612	0.85	1612	0.85	6448	3.417
iii.	WHS Type "A"	Nos			4	2.71	4	2.71	4	2.71	4	2.71	16	10.848
iv.	WHS Type "B"	Nos			3	3.06	3	3.06	3	3.06	3	3.06	11	12.221
v.	STAGGERD TRENCHES	hectare			4	0.94	4	0.94	4	0.94	4	0.94	17	3.740
vi.	LOOSE STONE CHECK DAM	Nos			49	1.42	49	1.42	49	1.42	49	1.42	196	5.684

S. N.	NAME OF ACTIVITY	Unit	2010-11		2011-12		2012-13		2013-14		2014-15		TOTAL	
			FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR		FIFTH YEAR			
			PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN
3	DRAINAGE LINE TREATMENT				0	0.00	0	0.00	0	0.00	0	0.00		
i.	RETANING/SAFTY WALL 'A'	Nos			3	1.28	3	1.28	3	1.28	3	1.28	13	5.135
ii.	RETANING/SAFTY WALL 'B'	Nos			3	1.35	3	1.35	3	1.35	3	1.35	10	5.400
iii.	RETANING/SAFTY WALL 'C'	Nos			1	0.91	1	0.91	1	0.91	1	0.91	4	3.640
iv.	RETANING/SAFTY WALL 'D'	Nos			1	0.60	1	0.60	1	0.60	1	0.60	2	2.380
v.	RETANING/SAFTY WALL 'E'	Nos			0	0.51	0	0.51	0	0.51	0	0.51	1	2.050
vi.	MASONARY WATER HARVESTING STRUCTURE 'A'	Nos			1	2.17	1	2.17	1	2.17	1	2.17	4	8.680
vii.	MASONARY WATER HARVESTING STRUCTURE 'B'	Nos			1	2.15	1	2.15	1	2.15	1	2.15	3	8.580
viii.	MASONARY WATER HARVESTING STRUCTURE 'C'	Nos			1	2.19	1	2.19	1	2.19	1	2.19	2	8.740
SUB TOTAL (Natural Resource Management)						84.672		84.672		75.822		75.822		338.688
VIII	LIVELIHOOD/MICROENTERPRISES													
a.	LIVELIHOOD ACTIVIVITIES FOR ASSET LESS PERSON													
b.	LIVESTOCK MANAGEMENT (A.I/ CAMP/OTHER)													
c.	PRODUCTION SYSTEM & MICROENTERPRISES (For Kharif, Rabi Season and for Horticulture Plantation)													
SUB TOTAL (VIII a,b,c) 15 %						21.17		21.17		21.17		21.17		84.672
IX	CONSOLIDATED PHASE (3 %)											16.934		16.934
	TOTAL PROJECT FUND			42.163		128.027		125.785		116.936		133.870		564.480

B. CONVERGENCE FUND- WORKS TO BE DONE BY AGRICULTURE/HORTICULTURE DEPARTMENT														
A.	Agriculture													
1	Free Seed Minitkit Distribution	Nos.	244	0.000	244	0	244	0	244	0	244	0	1221	0
2	Crop Demonstration	Nos.	19	0.376	19	0.376	19	0.376	19	0.376	19	0.376	94	1.880
3	Certified Seed Distribution	Nos.	334	0.000	334	0	334	0	334	0	334	0	1669	0.000
4	Subsidy on Pipe Line	Meter	3140	0.582	3140	0.582	3140	0.582	3140	0.582	3140	0.582	15700	2.910
5	Subsidy on Gypsum	M.ton	98	0.682	98	0.682	98	0.682	98	0.682	98	0.682	490	3.410
6	Establishment of Farmers field	Nos.	10	0.416	10	0.416	10	0.416	10	0.416	10	0.416	52	2.080
7	Soil and Water Testing and Distribution of Soil Health Card	Nos.	289	0.000	289	0	289	0	289	0	289	0	1446	0.000
8	Subsidy on Plant Protection Equipment	Nos.	23	0.092	23	0.092	23	0.092	23	0.092	23	0.092	113	0.460
9	Subsidy on Agriculture Implements	No.	15	0.450	15	0.45	15	0.45	15	0.45	15	0.45	75	2.250
B.	Horticulture													
1	Medicinal Plant (Alovera)	Hect.	2	0.000	2	0	2	0	2	0	2	0	10	0.000
2	ND	Nos.	20	1.386	20	1.386	20	1.386	20	1.386	20	1.386	98	6.930
3	Subsidy on Drip Irrigation	No.	10	9.800	10	9.8	10	9.8	10	9.8	10	9.8	49	49.000
4	Subsidy on Fruit Orchard	Hect.	6.4	1.452	6.4	1.452	6.4	1.452	6.4	1.452	6.4	1.452	32	7.260
TOTAL CONVERGENCE FUND														76.18
GRAND TOTAL FOR PROJECT INCLUDING CONVERGENCE														640.660

Table 1. Village Wise Land Use of Project Area

S.N.	Name of Gram Panchayt/Village	Geographical Area	Forest Area	Community Land	Pastures	Uncultivated Waste Land	Agriculture Land				Net Sown Area	Net area sown more than once
							Temporary Fallow	Permanent Fallow	Cultivated Rainfed	Cultivated Irrigated		
I.	G. P. Toonga											
1	Toonga	616	45	26	62		3		320	359	679	169
2	Chak Toonga	14		1			1		12	8	20	8
3	Siya Ka Bass	141		6	28	3	13		84	106	190	85
4	Akhepura	86		3	6		2		55	44	99	29
	Total	857	45	36	96	3	19	0	471	517	988	291
II.	G.P. Karangarh											
1	Nagrajpura	247	9	13	34	8	9	10	180	267	447	209
2	Bhudarpura	165		6	2	6	2	13	106	137	243	108
3	Lalpura	124		3	20	5	11	7	58	84	142	75
4	Ballupura	133		2			7	3	92	133	225	107
	Total	669	9	24	56	19	29	33	436	621	1057	499
III.	G.P. Garh											
1	Doobli	268	19	12	13		5	12	124	97	221	71
	Total	268	19	12	13	0	5	12	124	97	221	71
IV.	G.P. Madhogarh											
1	Gumanpura	154	2	8	2	3	5	13	79	88	177	60
2	Gwalini	408		10	20	4	25	55	202	184	386	205
3	Madhogarh	168		3			45	51	164	67	231	169
4	Chak Madhogarh	44			3		2	3	37	32	69	37
5	Dhauri	146		5	10		2	7	112	48	160	69
	Total	920	2	21	30	7	79	129	594	419	1023	540
V.	G.P. Bhudla											
1	Bhudla	317		7	48		2		216	186	402	157
2	Rojwari	131		4	18		7		86	63	149	51
3	Chak Rojwari	51		5	2		2		35	34	69	28
4	Lalawala	67		3	24		3		45	35	80	23
5	Baori Ka Bass	81		6	4				39	27	66	21
6	Rajwas	175		29			2	5	91	112	203	70
	Total	822	0	54	96	0	16	5	512	457	969	350
VI.	G.P. Rajpura Patalwas											
1	Rajpura Patalwas	345		16	10	35	24	32	247	143	390	169
2	Tekchandpura	184	49	8	7	6	13	12	55	32	87	51
3	Charangarh	262	59	5	44	8	15	25	115	74	189	104
4	Dhingar Ka Bass	132		9		2	20	11	89	62	151	44
5	Tilpatti	206		14		5	30	31	101	127	238	107
6	Kho-Rajewala	35		6		7	3	5	26	1	27	14
	Total	1164	108	52	67	63	105	116	633	439	1082	489
VII.	G.P. Anatpura											
1	Ratanpura	102		4					77	64	141	43
2	Biharipura	112		1	10				76	62	138	41
	Total	214	0	5	10	0	0	0	153	126	279	84
	G. Total	4914	183	204	368	92	253	295	2923	2676	5619	2324

Table 2. Village Wise Details of Land Holding According to Accounts (As per Revenue Record)

S.N.	Name of Gram Panchayt/Village	Area in hectare					
		Details of Land According to Account (Ownership)					Total
		Government	Pasture	Private Land (lkkrsnkj)	Govt. Land given to Cultivator (xSj lkkrsnkj)	Land Alloted to Other Department/ Organization	
I.	G. P. Toonga						
1	Toonga	51.475	85.61	418.15	5.05	55.36	615.645
2	Chak Toonga	0.24		13.72			13.96
3	Siya Ka Bass	17.04	28.57	89.507	3.26	2.14	140.517
4	Akhepura	4.337	5.981	73.999	2.023		86.34
	Total	73.092	120.161	595.376	10.333	57.5	856.462
II.	G.P. Karangarh						
1	Nagrajpura	23.33	33.605	180		10.065	247
2	Bhudarpura	4.502	1.871	158.695			165.068
3	Lalpur	12.569	20.89	91.183			124.642
4	Ballupura	3.477		128.573		0.24	132.29
	Total	43.878	56.366	558.451	0	10.305	669
III.	G.P. Garh						
1	Doobli	22.053	16.287	165.651	0.506	63.503	268
	Total	22.053	16.287	165.651	0.506	63.503	268
IV.	G.P. Madhogarh						
1	Gumanpura	12.53	2.301	138.564	0.481	5.222	159.098
2	Gwalini	28.16	19.6	345.169	0.49	9.67	403.089
3	Madhogarh	6.55		161.021			167.571
4	Chak Madhogarh	3.084		39.92	0.341		43.345
5	Dhauli	12.36	5	129.075			146.435
	Total	62.684	21.901	813.749	1.312	14.892	919.538
V.	G.P. Bhudla						
1	Bhudla	13.998	24.923	282.929	0.013	1.581	323.444
2	Rojwari	3.705	18.563	110.441		0.835	133.544
3	Chak Rojwari	5.994	2.238	42.386			50.618
4	Lalawala	4.11	0.114	66.462			70.686
5	Baori Ka Bass	10.951	24.177	43.667	2.339	0.164	81.298
6	Rajwas	32.523	3.199	126.71	1.176	0.809	164.417
	Total	71.281	73.214	672.595	3.528	3.389	824.007
VI.	G.P. Rajpura Patalwas						
1	Rajpura Patalwas	14.02	10.41	318.25	0.04	2.39	345.11
2	Tekchandpura	12.266	7.966	113.871		50.011	184.114
3	Charangarh	20.649	43.802	136.428	0.784	60.607	262.27
4	Dhingar Ka Bass	9.699		122.594			132.293
5	Tilpatti	14.441		191.594	0.051		206.086
6	Kho-Rajewala	3.945	5.728	25.454			35.127
	Total	75.02	67.906	908.191	0.875	113.008	1165
VII.	G.P. Anatpura						
1	Ratanpura			101.225			101.225
2	Biharipura	3.389	10.432	96.954			110.775
	Total	3.389	10.432	198.179			212
	G. Total	351.397	366.267	3912.192	16.554	262.597	4914.007

Table 3. Village Wise Classification of Land According to Type of Land (as per revenue record)

Gram Panchayat: Karangarh

Area in hectare

S.No.	Type of Land	Village Wise Area				
		Nagrajpura	Bhudarpura	Ballupura	Lalpura	Total
1	चाही-ए			8.004	9.636	17.640
2	चाही-1	3.890	20.599	18.860	13.998	57.347
3	चाही-2	14.174	7.473	5.968		27.615
4	चाही-3	13.401	4.868		1.277	19.546
5	चाही-खुश्क				0.594	0.594
	कुल	31.465	32.940	32.832	25.505	122.742
6	जाव-ए				1.682	1.682
7	जाव-1	0.215	1.568			1.783
8	जाव-2	2.870				2.870
9	जाव-3	2.301	0.809			3.110
	कुल	5.386	2.377	0.000	1.682	9.445
10	बारानी-ए	0.278		12.696	3.288	16.262
11	बारानी-1	9.808	10.280	15.440	16.110	51.638
12	बारानी-2	45.017	37.897	35.500	37.518	155.932
13	बारानी-3	67.219	72.216	4.628	1.151	145.214
14	बारानी			4.059		4.059
	कुल	122.322	120.393	72.323	58.067	373.105
15	बजंड-1	2.428	0.253	16.514	3.730	22.925
16	बजंड-2	29.580	0.278			29.858
17	बजंड-3	4.121				4.121
18	बजंड			0.721		0.721
19	बजंड डोल	0.354		3.085	0.809	4.248
	कुल	36.483	0.531	20.320	4.539	61.873
20	नाली/ नला/ नाला/ झेरा/ नदी	7.841	2.238		6.828	16.907
21	चारागाह	28.927	1.871		21.737	52.535
22	बाग आम/ बगीची	0.013				0.013
23	गै.मु. आबादी	3.815	2.048	1.821	4.135	11.819
24	गै.मु. रास्ता/ सड़क	0.064	0.215	2.099	1.606	3.984
25	गै.मु. चाह/ कुँआ	1.252		0.582		1.834
26	बाड़ा	0.974		0.063		1.037
27	पाल/ तलाई	1.748				1.748
28	पहाड़	4.458				4.458
29	गै.मु. खड़डा	1.000	2.440		1.214	4.654
30	ढेकली	0.025				0.025
31	बीहड़	1.227				1.227
32	गै.मु. टीबा			0.089		0.089
33	जा.बाग			1.037		1.037
34	गे.मु. नेहड़			0.038		0.038
35	बालाजी (गे.मु.)			0.228		0.228
36	गे.मु. शमशान			0.202		0.202
	अन्य	51.344	8.812	6.159	35.520	101.835
	कुल योग	247.000	165.053	131.634	125.313	669.000

Table 4. Village Wise Classification of Land According to Type of Land (as per revenue record)

Gram Panchayat: Garh

Area in hectares

S.No.	Type of Land	Village Wise Area
		Doobli
1	चाही-अव्वल	55.611
2	चाही-दोयम	22.192
3	चाही-सोयम	2.200
	कुल	80.003
4	जाव-अव्वल	4.628
5	जाव-दोयम	1.391
6	जाव-सोयम	0.025
	कुल	6.044
7	बारानी-अलीफ	17.426
8	बारानी-अव्वल	16.957
9	बारानी-दोयम	21.778
10	बारानी-सोयम	3.110
	कुल	59.271
11	बजंड-अव्वल	6.987
12	बजंड-दोयम	7.386
13	बजंड डोल	0.746
	कुल	15.119
14	नाली / नला / नाला / झेरा / नदी	6.112
15	चारागाह	17.475
16	गै.मु. आबादी / आवासीय	6.879
17	गै.मु. रास्ता / सड़क	5.501
18	पाल / तलाई	1.619
19	पहाड़	62.592
20	गै.मु. खड्डा	7.385
	अन्य	107.563
	कुल योग	268.000

Table 5. Village Wise Classification of Land According to Type of Land (as per revenue record)

Gram Panchayat: Anatpura

Area in Hectare

S.No.	Type of Land	Village Wise Area		
		Ratanpura	Biharipura	Total
1	चाही-1		2.984	2.984
2	चाही-2		7.764	7.764
3	चाही-3		1.454	1.454
4	चाही-अलीफ	9.673		9.673
5	चाही-अव्वल	18.435		18.435
6	चाही-दोयम	8.737		8.737
7	चाही नाव-2		0.101	0.101
	कुल	36.845	12.303	49.148
8	जाव-1		0.873	0.873
9	जाव-2		3.376	3.376
10	जाव-3		0.556	0.556
	कुल	0.000	4.805	4.805
11	बारानी-ए		1.569	1.569
12	बारानी-1		8.384	8.384
13	बारानी-2		14.744	14.744
14	बारानी-3		38.160	38.160
15	बारानी-अलीफ	0.797		0.797
16	बारानी-अव्वल	7.246		7.246
17	बारानी-दोयम	31.915		31.915
18	बारानी-सोयम	17.387		17.387
	कुल	57.345	62.857	120.202
19	बजंड-1		3.060	3.060
20	बजंड-2		13.176	13.176
21	बजंड-अव्वल	0.341		0.341
22	बजंड डोल	2.643	0.164	2.807
	कुल	2.984	16.400	19.384
23	नाली / नला / नाला / झेरा / नदी		0.038	0.038
24	चारागाह		10.232	10.232
25	गै.मु. आबादी / आवासीय		1.277	1.277
26	गै.मु. रास्ता / सड़क		1.087	1.087
27	गै.मु. शमशान		0.207	0.207
28	गै.मु. चाह / कुँआ		0.430	0.430
29	पहाड़		0.810	0.810
30	गै.मु. खड्डा	4.051	0.240	4.291
31	जदीद		0.089	0.089
	अन्य	4.051	14.410	18.461
	कुल योग	101.225	110.775	212.000

Table 6. Village Wise Classification of Land According to Type of Land (as per revenue record)

Gram Panchayat: Bhudla

Area in hectare

S.No.	Type of Land	Village Wise Area						
		Bhudla	Lalawala	Rojwadi	Chak Rojwadi	Rajwas	Baori Ka Bass	Total
1	चाही-1		9.800	19.726		10.318	12.260	41.786
2	चाही-2		6.284	4.160		24.165	2.111	36.720
3	चाही-3		6.604	12.027		13.189	3.654	35.474
4	चाही-अलीफ	15.289						15.289
5	चाही-अव्वल	48.860			5.109			53.969
6	चाही-दोयम	24.822			1.075			25.897
7	चाही सोयम	27.276			0.784			28.060
8	चाही-नई सोयम				1.770			1.770
	कुल	116.247	22.688	35.913	8.738	37.354	18.025	238.965
9	जाव-1		4.754	1.429		0.240	1.340	7.763
10	जाव-2			0.784		0.569	0.493	1.846
11	जाव-3			2.263		0.076	2.681	5.020
12	जाव-अलीफ	0.468						0.468
13	जाव-अव्वल	7.246			0.645			7.891
14	जाव-दोयम	5.766			1.277			7.043
15	जाव-सोयम	8.131			0.430			8.561
	कुल	21.611	4.754	4.476	2.352	0.885	4.514	38.592
16	बारानी-ए		1.644	0.569		0.683	13.707	16.603
17	बारानी-1		20.927	42.702		56.460	3.895	123.984
18	बारानी-2		2.605	9.332		11.368	3.376	26.681
19	बारानी-3		8.585			12.645		21.230
20	बारानी-अलीफ	0.936						0.936
21	बारानी-अव्वल	83.166			11.381			94.547
22	बारानी दोयम	34.622			11.444			46.066
23	बारानी सोयम	1.138			1.517			2.655
	कुल	119.862	33.761	52.603	24.342	81.156	20.978	332.702
24	बजंड-1		1.214			1.163	0.632	3.009
25	बजंड-2			1.340		0.468	0.455	2.263
26	बजंड-अव्वल	13.694			0.518			14.212
27	बजंड-दोयम	4.982	1.366		5.425			11.773
28	बजंड			15.098				15.098
29	बजंड-डोल	2.579	0.556	0.329	0.417	3.895	0.518	8.294
	कुल	21.255	3.136	16.767	6.360	5.526	1.605	54.649
30	नाली/ नला/ नाला/ झेरा/ नदी					18.600	3.844	22.444
31	चारागाह	24.920	0.619	18.449	2.238	4.046	24.177	74.449
32	खातली					0.443		
33	गै.मु. आबादी/ आवासीय					6.575	1.151	7.726
34	गै.मु. रास्ता/ सड़क					4.679	0.771	5.450
35	गै.मु. शमशान/ कब्रिस्तान						0.341	0.341
36	गै.मु. स्कूल					0.253		0.253
37	गै.मु. चाह/ कुँआ					1.467	0.759	2.226
38	बाड़ा					0.038		0.038
39	पाल/ तलाई					1.593		1.593
40	गै.मु. टीबा					0.177	0.038	0.215
41	गै.मु. खड्डा	19.549	5.728	5.336	6.588	1.454	0.126	38.781
42	मन्दिर					0.164		0.164
43	पहाड़						4.969	4.969
	अन्य	44.469	6.347	23.785	8.826	39.489	36.176	159.092
	कुल योग	323.444	70.686	133.544	50.618	164.410	81.298	824.000

Table 7. Village Wise Classification of Land According to Type of Land (as per revenue record)

Gram Panchayat: Madhogarh

Area in hectare

S.No.	Type of Land	Village Wise Area					
		Madhogarh	Chak Madhogarh	Gwalini	Gumanpura	Dhauri	Total
1	चाही-ए	3.249		0.210			3.459
2	चाही-1	12.860	5.260	62.390	17.387	28.392	126.289
3	चाही-2	14.238	6.613	58.280	17.728	11.697	108.556
4	चाही-3	0.986	4.211	57.140	1.543	1.329	65.209
	कुल	31.333	16.084	178.020	36.658	41.418	303.513
5	जाव-1					3.589	3.589
6	जाव-2		0.278		3.136	4.170	7.584
7	जाव-3		0.101		0.063		0.164
	कुल	0.000	0.379	0.000	3.199	7.759	11.337
8	बारानी-ए	2.491	1.694	12.970		4.101	21.256
9	बारानी-1	48.291	5.336	23.120	55.537	27.734	160.018
10	बारानी-2	11.482	12.114	18.840	1.947	28.532	72.915
11	बारानी-3	15.439	0.809	11.250	13.454	6.063	47.015
12	चारागाह से बारानी -3	6.386					6.386
	कुल	84.089	19.953	66.180	70.938	66.430	307.590
13	बजंड-1	8.839		2.900	10.963	1.532	24.234
14	बजंड-2		0.152	1.790	1.315	8.114	11.371
15	बजंड डोल	7.208	2.263		9.648	3.430	22.549
16	बजंड पूला	26.732				0.392	27.124
	कुल	42.779	2.415	4.690	21.926	13.468	85.278
17	नाली / नला / नाला / झेरा / नदी			0.130	3.578	5.633	9.341
18	चारागाह			14.489	2.301	5.000	21.790
19	खारड़ा / खातली		0.341			0.063	0.404
20	बाग आम			99.260			99.260
21	गै.मु. आबादी			18.000	3.781	2.013	23.794
22	बजंड से आबादी	0.455					0.455
23	गै.मु. रास्ता / सड़क			8.760	5.260	2.646	16.666
24	गै.मु. बावड़ी			0.010			0.010
25	गै.मु. चाह / कुँआ			3.210	0.746	1.468	5.424
26	गै.मु.					0.537	0.537
27	बाड़ा			0.070	0.089		0.159
28	पाल / तलाई			0.070	0.935		1.005
29	गै.मु. स्कुल			2.110	0.253		2.363
30	पहाड़				3.288		3.288
31	पेट्रोल पम्प			0.190			0.190
32	गै.मु. सस्थान			6.080			6.080
33	गूणी			0.070			0.070
34	वाणिज्यिक			0.220	0.051		0.271
35	चबुतरा				3.288		3.288
36	गे.मु. / खड्डा	8.915	4.173		1.340		14.428
37	मरगट				0.417		0.417
38	डोल				0.873		0.873
39	गे.मु. शमशान			1.530	0.177		1.707
	अन्य	9.370	4.514	154.199	26.377	17.360	211.820
	कुल योग	167.571	43.345	403.089	159.098	146.435	919.538

Table 8. Village Wise Classification of Land According to Type of Land (as per revenue record)

Gram Panchayat: Toonga

Area in hectare

S.No.	Type of Land	Village Wise Area				
		Toonga	Chak Toonga	Siya Ka Bass	Akhepura	Total
1	चाही-1	54.080		8.980		63.060
2	चाही-2	37.380	1.720	15.720		54.820
3	चाही-3	114.780		24.900		139.680
4	चाही-अव्वल				8.763	8.763
5	चाही-दोयम				12.885	12.885
6	चाही-सोयम				1.366	1.366
	कुल	206.240	1.720	49.600	23.014	280.574
7	जाव-2		1.315			1.315
8	जाव-अव्वल				1.328	1.328
9	जाव-दोयम				0.822	0.822
10	जाव-सोयम				0.354	0.354
	कुल	0.000	1.315	0.000	2.504	3.819
11	बारानी-ए	4.880				4.880
12	बारानी-1	34.525	1.378	5.140		41.043
13	बारानी-2	109.900	1.214	35.820		146.934
14	बारानी-3	54.800				54.800
15	बारानी-अव्वल				16.641	16.641
16	बारानी-दोयम				13.568	13.568
17	बारानी-सोयम				6.006	6.006
	कुल	204.105	2.592	40.960	36.215	283.872
18	बजंड-1		7.600			7.600
19	बजंड-2					0.000
20	बजंड	10.540		5.520		16.060
21	बजंड-अव्वल				0.797	0.797
22	बजंड-दोयम				9.231	9.231
23	बजंड डोल		0.367		0.341	0.708
	कुल	10.540	7.967	5.520	10.369	34.396
24	नाली / नला / नाला / झेरा / नदी	0.130	0.025	2.450		2.605
25	चारागाह	88.800		28.570	7.979	125.349
26	गै.मु.स्कूल	0.060				0.060
27	गै.मु. आबादी	16.990	0.240	6.850		24.080
28	गै.मु. रास्ता / सड़क	14.670		2.760		17.430
29	गै.मु. चाह / कुँआ	5.800	0.101	1.360		7.261
30	बाड़ा			0.450		0.450
31	पाल / तलाई	3.770		1.220		4.990
32	वाणिज्यिक	0.080				0.080
33	पहाड़	60.560				60.560
34	गै.मु. खड्डा	0.970		0.230	6.006	7.206
35	चबुतरा	0.010				0.010
36	मन्दिर	0.060				0.060
37	गे.मु. शमशान	2.860		0.800		3.660
	अन्य	194.760	0.366	44.690	13.985	253.801
	कुल योग	615.645	13.960	140.770	86.087	856.462

Table 9. Village Wise Classification of Land According to Type of Land (as per revenue record)

Gram Panchayat: Rajpura Patalwas

Area in hectare

S.No.	Type of Land	Village Wise Area						
		Rajpura Patalwas	Tekchandpura	Charangar h	Dhingar Ka Bass	Tilpatti	Kho-Rajewala	Total
1	चाही-ए	40.320	0.303					40.623
2	चाही-1	28.440	14.251	24.999	5.539	17.526		90.755
3	चाही-2	9.830	3.882	11.874	8.662	16.729		50.977
4	चाही-3	90.680	5.539	1.732	2.339	4.021	1.631	105.942
	कुल	169.270	23.975	38.605	16.540	38.276	1.631	288.297
5	जाव-ए		0.013					0.013
6	जाव-1		3.326	3.705	1.568	1.619		10.218
7	जाव-2		3.022	2.744	3.768	2.820		12.354
8	जाव-3		1.694	2.618	0.759	1.328	1.707	8.106
	कुल	0.000	8.055	9.067	6.095	5.767	1.707	30.691
9	बारानी-ए	1.590		3.503		1.555		6.648
10	बारानी-1	9.440	12.404	15.022	4.363	70.281	1.290	112.800
11	बारानी-2	21.240	21.964	19.246	14.023	17.501	1.340	95.314
12	बारानी-3	108.920	36.157	43.979	25.113	44.270	7.208	265.647
	कुल	141.190	70.525	81.750	43.499	133.607	9.838	480.409
13	बजंड-1	0.130	0.392	0.228	0.177	5.766	0.986	7.679
14	बजंड-2	1.960	7.688	7.536	55.056	1.391	14.314	87.945
15	बजंड-डोल		0.379	0.368	1.302	2.769		4.818
	कुल	2.090	8.459	8.132	56.535	9.926	15.300	100.442
16	नाली / नला / नाला / झेरा / नदी	3.920	4.501	5.511	7.031			20.963
17	चारागाह	10.410	7.966	45.636			6.234	70.246
18	गै.मु. आबादी / आवासीय	7.570	4.060	5.222			0.291	17.143
19	गै.मु. रास्ता / सड़क	3.630	2.516	1.568				7.714
20	गे.मु. शमशान / कब्रिस्तान	0.580		0.759				1.339
21	गे.मु. स्कूल	1.260		0.809				2.069
22	गै.मु. चाह / कुँआ	3.990	1.290	1.606	0.544		0.126	7.556
23	बाड़ा	0.380	0.101		0.038			0.519
24	पाल / तलाई	0.230						0.230
25	गै.मु. संस्थान	0.130						0.130
26	गुणी	0.090						0.090
27	गै.मु. खड्डा	0.260	1.732	2.352	1.973	18.510		24.827
28	टीबा	0.110	3.313		0.038			3.461
29	चबुतरा			0.013				0.013
30	पहाड़		47.621	61.240				108.861
	अन्य	32.560	73.100	124.716	9.624	18.510	6.651	265.161
	कुल योग	345.110	184.114	262.270	132.293	206.086	35.127	1165.000

Table 10. Village Wise Details of Irrigated, Unirrigated, Waste Land, Pasture Land

S.N.	Name of Gram Panchayt/Village	Area in Hectares								
		Irrigated Land			Unirrigated Land			Pasture Land	Others	Total
		Chahi	Jaav	Total	Barani	Waste Land	Total			
I.	G. P. Toonga									
1	Toonga	206.240	0.000	206.240	204.105	10.540	214.645	88.800	105.960	615.645
2	Chak Toonga	1.720	1.315	3.035	2.592	7.967	10.559	0.000	0.366	13.960
3	Siya Ka Bass	49.600	0.000	49.600	40.960	5.520	46.480	28.570	16.120	140.770
4	Akhepura	23.014	2.504	25.518	36.215	10.369	46.584	7.979	6.006	86.087
	Sub Total	280.574	3.819	284.393	283.872	34.396	318.268	125.349	128.452	856.462
II.	G.P. Karangarh									
1	Nagrajpura	31.465	5.386	36.851	122.322	36.483	158.805	28.927	22.417	247.000
2	Bhudarpura	32.940	2.377	35.317	120.393	0.531	120.924	1.871	6.941	165.053
3	Lalpura	25.505	1.682	27.187	58.067	4.539	62.606	21.737	13.783	125.313
4	Ballupura	32.832	0.000	32.832	72.323	20.320	92.643	0.000	6.159	131.634
	Sub Total	122.742	9.445	132.187	373.105	61.873	434.978	52.535	49.300	669.000
III.	G.P. Garh									
1	Doobli	80.003	6.044	86.047	59.271	15.119	74.390	17.475	90.088	268.000
	Sub Total	80.003	6.044	86.047	59.271	15.119	74.390	17.475	90.088	268.000
IV.	G.P. Madhogarh									
1	Madhogarh	31.333	0.000	31.333	84.089	42.779	126.868	0.000	9.370	167.571
2	Chak Madhogarh	16.084	0.379	16.463	19.953	2.415	22.368	0.000	4.514	43.345
3	Gwalini	178.020	0.000	178.020	66.180	4.690	70.870	14.489	139.710	403.089
4	Gumanpura	36.658	3.199	39.857	70.938	21.926	92.864	2.301	24.076	159.098
5	Dhauri	41.418	7.759	49.177	66.430	13.468	79.898	5.000	12.360	146.435
	Sub Total	303.513	11.337	314.850	307.590	85.278	392.868	21.790	190.030	919.538
V.	G.P. Bhudla									
1	Bhudla	116.247	21.611	137.858	119.862	21.255	141.117	24.920	19.549	323.444
2	Rojwari	35.913	4.476	40.389	52.603	16.767	69.370	18.449	5.336	133.544
3	Chak Rojwari	8.738	2.352	11.090	24.342	6.360	30.702	2.238	6.588	50.618
4	Lalawala	22.688	4.754	27.442	33.761	3.136	36.897	0.619	5.728	70.686
5	Baori Ka Bass	18.025	4.514	22.539	20.978	1.605	22.583	24.177	11.999	81.298
6	Rajwas	37.354	0.885	38.239	81.156	5.526	86.682	4.046	35.443	164.410
	Sub Total	238.965	38.592	277.557	332.702	54.649	387.351	74.449	84.643	824.000
VI.	G.P. Rajpura Patalwas									
1	Rajpura Patalwas	169.270	0.000	169.270	141.190	2.090	143.280	10.410	22.150	345.110
2	Tekchandpura	23.975	8.055	32.030	70.525	8.459	78.984	7.966	65.134	184.114
3	Charangarh	38.605	9.067	47.672	81.750	8.132	89.882	45.636	79.080	262.270
4	Dhingar Ka Bass	16.540	6.095	22.635	43.499	56.535	100.034	0.000	9.624	132.293
5	Tilpatti	38.276	5.767	44.043	133.607	9.926	143.533	0.000	18.510	206.086
6	Kho-Rajewala	1.631	1.707	3.338	9.838	15.300	25.138	6.234	0.417	35.127
	Sub Total	288.297	30.691	318.988	480.409	100.442	580.851	70.246	194.915	1165.000
VII.	G.P. Anatpura									
1	Ratanpura	36.845	0.000	36.845	57.345	2.984	60.329	0.000	4.051	101.225
2	Biharipura	12.303	4.805	17.108	62.857	16.400	79.257	10.232	4.178	110.775
	Sub Total	49.148	4.805	53.953	120.202	19.384	139.586	10.232	8.229	212.000
	G. Total	1363.242	104.733	1467.975	1957.151	371.141	2328.292	372.076	745.657	4914.000

Table 11. Demography Information of the Project Area

S.N.	Name of Gram Panchayat/Village	Geographical Area (ha)	Village Code	Total House Hold (T_HH)	Total Population (T_P)	Total Male (T_M)	Total Female (T_F)	SC			ST		
								SC_M	SC_F	Total	ST_M	ST_F	Total
I.	G. P. Toonga												
1	Toonga	616	01628300	743	5187	2763	2424	392	348	740	176	166	342
2	Chak Toonga	14	01628200	5	50	28	22	0	0	0	28	22	50
3	Siya Ka Bass	141	01628800	89	618	332	286	63	49	112	262	234	496
4	Akhepura	86	01628700	51	379	210	169	20	17	37	73	57	130
	Total	857		888	6234	3333	2901	475	414	889	539	479	1018
II.	G.P. Karangarh												
1	Nagrajpura	247	01620700	100	847	420	427	56	61	117	23	23	46
2	Bhudarpura	165	01628400	96	671	345	326	0	0	0	295	276	571
3	Lalpura	124	01628600	56	381	202	179	56	53	106	0	0	0
4	Ballupura	133	01628500	75	529	274	255	49	50	99	55	63	118
	Total	669		327	2428	1241	1187	161	164	322	373	362	735
III.	G.P. Garh												
1	Doobli	268	01628000	149	1039	545	494	10	10	20	4	3	7
	Total	268		149	1039	545	494	10	10	20	4	3	7
IV.	G.P. Madhogarh												
1	Gumanpura	159	01627900	86	647	341	306	112	100	212	0	0	0
2	Gwalini	403	01627800	124	745	404	341	168	135	303	131	116	247
3	Madhogarh	168	01627500	322	2198	1127	1071	449	434	883	75	82	157
4	Chak Madhogarh	43	01627300	22	154	85	69	10	7	17	44	32	76
5	Dhauri	146	1627000	55	471	242	229	82	80	162	0	0	0
	Total	919		609	4215	2199	2016	821	756	1577	250	230	480
V.	G.P. Bhudla												
1	Bhudla	323	01626600	164	1253	648	605	194	185	379	0	0	0
2	Rojwari	134	01626700	89	533	270	263	7	11	18	0	0	0
3	Chak Rojwari	51	01626500	17	135	72	63	31	29	60	0	0	0
4	Lalawala	71	01626400	48	370	191	179	39	37	76	0	0	0
5	Baori Ka Bass	81	01626800	35	305	170	135	0	0	0	152	121	273
6	Rajwas	164	01627400	138	1037	519	518	151	159	310	0	0	0
	Total	824		491	3633	1870	1763	422	421	843	152	121	273
VI.	G.P. Rajpura Patalwas												
1	Rajpura Patalwas	345	01625900	278	2100	1114	986	183	149	332	67	60	127
2	Tekchandpura	184	01625700	86	660	347	313	39	44	83	18	15	33
3	Charangarh	263	01625800	88	560	297	263	44	32	76	69	61	130
4	Dhingar Ka Bass	132	01625600	40	392	195	197	36	29	65	135	143	280
5	Tilpatti	206	01626300	110	812	439	373	70	60	130	0	0	0
6	Kho-Rajewala	35	01626000	16	83	42	41	3	4	7	39	37	76
	Total	1165		618	4607	2434	2173	375	318	693	328	316	646
VII.	G.P. Anaptura												
1	Ratanpura	101	01627600	82	610	310	300	85	88	173	35	28	63
2	Biharipura	111	01627700	34	249	128	121	4	4	8	114	109	223
	Total	212		116	859	438	421	89	92	181	149	137	286
	G. Total	4914		3198	23015	12060	10955	2353	2175	4525	1795	1648	3445

Table 12. Villagewise Land Holding Pattern in Projct Area.

S.No.	Name of Gram Panchayat/Village	Type of Farmers	Land Holding (ha) Irrigation		
			Irrigated (Source)	Rainfed	Total
I.	GP Toonga				
1	Chak Toonga	Large Farmer	5.00		5.00
		Small Farmer	4.00	3.00	7.00
		Marginal Farmer	4.00	1.00	5.00
2	Toonga	Large Farmer	55.00	68.00	123.00
		Small Farmer	165.00	132.00	297.00
		Marginal Farmer	105.00	115.00	220.00
3	Siya Ka Bass	Large Farmer	45.00	25.00	70.00
		Small Farmer	48.00	32.00	80.00
		Marginal Farmer	12.00	8.00	20.00
4	Akhepura	Large Farmer	10.00	13.00	23.00
		Small Farmer	18.00	15.00	33.00
		Marginal Farmer	16.00	8.00	24.00
II.	GP Karangarh				
1	Nagrajpura	Large Farmer	95.00	25.00	120.00
		Small Farmer	130.00	75.00	205.00
		Marginal Farmer	50.00	30.00	80.00
2	Bhudarpura	Large Farmer	45.00	30.00	75.00
		Small Farmer	82.00	42.00	124.00
		Marginal Farmer	15.00	10.00	25.00
3	Lalpura	Large Farmer	12.00	4.00	16.00
		Small Farmer	34.00	26.00	60.00
		Marginal Farmer	25.00	10.00	35.00
4	Ballupura	Large Farmer	42.00	28.00	70.00
		Small Farmer	60.00	38.00	98.00
		Marginal Farmer	16.00	12.00	28.00
III	GP Garh				
1	Doobli	Large Farmer	18.00	24.00	42.00
		Small Farmer	45.00	37.00	82.00
		Marginal Farmer	22.00	15.00	37.00
IV	GP Madhogarh				
1	Gumanpura	Large Farmer	18.00	12.00	30.00
		Small Farmer	42.00	34.00	76.00
		Marginal Farmer	13.00	8.00	21.00
2	Gwalini	Large Farmer	62.00	38.00	100.00
		Small Farmer	95.00	115.00	210.00
		Marginal Farmer	26.00	42.00	68.00
3	Madhogarh	Large Farmer	22.00	25.00	47.00
		Small Farmer	20.00	68.00	88.00
		Marginal Farmer	7.00	13.00	20.00
4	Chak Madhogarh	Large Farmer	8.00	3.00	11.00
		Small Farmer	10.00	4.00	14.00
		Marginal Farmer	13.00	6.00	19.00
5	Dhauri	Large Farmer			
		Small Farmer			
		Marginal Farmer			

S.No.	Name of Gram Panchayat/Village	Type of Farmers	Land Holding (ha) Irrigation		
			Irrigated (Source)	Rainfed	Total
V.	GP Bhudla				
1	Bhudla	Large Farmer	8.00	12.00	20.00
		Small Farmer	110.00	25.00	135.00
		Marginal Farmer	42.00	62.00	104.00
2	Rojwari	Large Farmer	15.00	12.00	27.00
		Small Farmer	25.00	15.00	40.00
		Marginal Farmer	20.00	13.00	33.00
3	Chak Rojwari	Large Farmer			0.00
		Small Farmer	10.00	8.00	18.00
		Marginal Farmer	8.00	11.00	19.00
4	Lalawala	Large Farmer	7.00	3.00	10.00
		Small Farmer	23.00	10.00	33.00
		Marginal Farmer	10.00	6.00	16.00
5	Baori Ka Bass	Large Farmer	8.00	6.00	14.00
		Small Farmer	12.00	10.00	22.00
		Marginal Farmer	10.00	4.00	14.00
6	Rajwas	Large Farmer	17.00	6.00	23.00
		Small Farmer	62.00	18.00	80.00
		Marginal Farmer	18.00	10.00	28.00
VI.	GP Rajpura Patalwas				
1	Rajpura Patalwas	Large Farmer	40.00	20.00	60.00
		Small Farmer	92.00	24.00	116.00
		Marginal Farmer	18.00	10.00	28.00
2	Tekchandpura	Large Farmer	20.00	10.00	30.00
		Small Farmer	65.00	18.00	83.00
		Marginal Farmer	13.00	7.00	20.00
3	Charangarh	Large Farmer	24.00	18.00	42.00
		Small Farmer	38.00	20.00	58.00
		Marginal Farmer	32.00	26.00	58.00
4	Dhingar Ka Bass	Large Farmer	12.00	8.00	20.00
		Small Farmer	19.00	11.00	30.00
		Marginal Farmer	17.00	9.00	26.00
5	Tillpati	Large Farmer	25.00	20.00	45.00
		Small Farmer	62.00	33.00	95.00
		Marginal Farmer	31.00	15.00	46.00
6	Kho Rajewala	Large Farmer		7.00	7.00
		Small Farmer	1.00	13.00	14.00
		Marginal Farmer		6.00	6.00
VII	GP Anatpura				
1	Ratanpura	Large Farmer	22.00	10.00	32.00
		Small Farmer	40.00	23.00	63.00
		Marginal Farmer	2.00	6.00	8.00
2	Bihariपुरा	Large Farmer	14.00	10.00	24.00
		Small Farmer	36.00	13.00	49.00
		Marginal Farmer	14.00	8.00	22.00

Table 13. Village Wise Agriculture Production of Different Crops Grown in Kharif/Rabi seasons

S.No.	Season	Crop Sown	Rainfed			Irrigated			Total	
			Area (ha)	Production (Tons)	Productivity (kg/ha)	Area (ha)	Production (Tons)	Productivity (kg/ha)	Area (ha)	Production (Tons)
Gram Panchayat : Toonga										
Village : Toonga										
1	Kharif	Bajra	135	195.75	1450				135	195.75
		Groundnut	30	39.00	1300	50	90.00	1800	80	129.00
		Guar	85	46.75	550		0.00		85	46.75
		Pulses	2	1.00	500		0.00		2	1.00
2	Rabi	Wheat				125	350.00	2800	125	350.00
		Barley				65	195.00	3000	65	195.00
		Gram								
		Mustard				38	47.50	1250	38	47.50
3	Zaid	Tomato				6	111.00	18500	6	111.00
		Cucurbits				44	545.60	12400	44	545.60
		Fodder				13	292.50	22500	13	292.50
Total			252	282.50		341	1631.60		593	1914.10
Village : Chak Toonga										
1	Kharif	Bajra	4	5.60	1400		0.00		4	5.60
		Groundnut		0.00		1	1.85	1850	1	1.85
		Guar	2	1.20	600				2	1.20
		Pulses	1	0.45	450				1	0.45
2	Rabi	Wheat				1	3.00	3000	1	3.00
		Barley				3	9.60	3200	3	9.60
		Gram					0.00			0.00
		Mustard				2	2.60	1300	2	2.60
3	Zaid	Fodder				1	25.00	25000	1	25.00
Total			7	7.25		8	42.05		15	49.3
Village : Siya Ka Bass										
1	Kharif	Bajra	33	46.20	1400		0.00		33	46.20
		Groundnut	4	5.20	1300	4	7.60	1900	8	12.80
		Guar	31	19.22	620		0.00		31	19.22
		Pulses	1	0.50	500	1	0.85	850	2	1.35
2	Rabi	Wheat				46	133.40	2900	46	133.40
		Barley				25	77.50	3100	25	77.50
		Gram								
		Mustard				23	29.90	1300	23	29.90
3	Zaid	Fodder				4	96.00	24000	4	96.00
Total			69	71.12		103	345.25		172	416.37
Village : Akhepura										
1	Kharif	Bajra	16	23.20	1450		0.00		16	23.20
		Groundnut	1	1.35	1350	4	7.60	1900	5	8.95
		Guar	2	1.24	620				2	1.24
		Pulses							0	0.00
2	Rabi	Wheat				13			13	0.00
		Barley				14			14	0.00
		Gram								0.00
		Mustard				8	10.40	1300	8	10.40
3	Zaid	Tomato				2	26.00	13000	2	26.00
		Fodder				10	250.00	25000	10	250.00
Total			19	25.79		51	294		70	319.79
Gram Panchayat : Karangarh										
Village : Nagrajpura										
1	Kharif	Bajra	49	68.60	1400	15	27.75	1850	64	96.35
		Groundnut	8	10.80	1350	38	77.90	2050	46	88.70
		Guar	18	11.70	650				18	11.70
		Pulses	3	1.65	550				3	1.65
2	Rabi	Wheat				121	344.85	2850	121	344.85
		Barley				5	15.00	3000	5	15.00
		Gram				1	0.75	750	1	0.75
		Mustard				2	2.40	1200	2	2.40
3	Zaid	Tomato				56	112.00	2000	56	112.00
		Cucurbits				17	221.00	13000	17	221.00
		Fodder				20	460.00	23000	20	460.00
Total			78	92.75		275	1261.65		353	1354.4

S.No.	Season	Crop Sown	Rainfed			Irrigated			Total	
			Area (ha)	Production (Tons)	Productivity (kg/ha)	Area (ha)	Production (Tons)	Productivity (kg/ha)	Area (ha)	Production (Tons)
Village : Bhudarpura										
1	Kharif	Bajra	6	7.50	1250	24	43.20	1800	30	50.70
		Groundnut	2	2.40	1200	21	40.95	1950	23	43.35
		Guar	7	4.55	650				7	4.55
		Pulses							0	0.00
2	Rabi	Wheat				62	173.60	2800	62	173.60
		Barley				11	32.45	2950	11	32.45
		Gram				1	0.80	800	1	0.80
		Mustard				10	12.50	1250	10	12.50
3	Zaid	Tomato				14	168.00	12000	14	168.00
		Cucurbits				4	44.00	11000	4	44.00
		Fodder				10	210.00	21000	10	210.00
Total			15	14.45		157	725.5		172	739.95
Village : Lalpura										
1	Kharif	Bajra	26	37.70	1450	4	8.40	2100	30	46.10
		Groundnut	2	2.80	1400	18	40.50	2250	20	43.30
		Guar	4	2.76	690				4	2.76
		Pulses								0.00
2	Rabi	Wheat				40	112.00	2800	40	112.00
		Barley				3	8.85	2950	3	8.85
		Gram								
		Mustard				10	12.80	1280	10	12.80
3	Zaid	Tomato				5	70.00	14000	5	70.00
		Cucurbits				3	34.50	11500	3	34.50
		Fodder				10	230.00	23000	10	230.00
Total			32	43.26		93	517.05		125	560.31
Village : Ballupura										
1	Kharif	Bajra	3	3.90	1300	50	90.00	1800	53	93.90
		Groundnut	2	2.50	1250	21	39.90	1900	23	42.40
		Guar	7	4.90	700					
		Pulses								
2	Rabi	Wheat				58	159.50	2750	58	159.50
		Barley				14	40.60	2900	14	40.60
		Gram								
		Mustard				24	30.00	1250	24	30.00
3	Zaid	Tomato				3	42.00	14000	3	42.00
		Cucurbits				2	24.00	12000	2	24.00
		Fodder				12	264.00	22000	12	264.00
Total			12	11.3		184	690			696.4
Gram Panchayat : Garh										
Village : Doobli										
1	Kharif	Bajra	62	89.90	1450	8	16.80	2100	70	106.70
		Groundnut								
		Guar	6	4.26	710	1	0.95	950	7	5.21
		Pulses								
2	Rabi	Wheat				52	156.00	3000	52	156.00
		Barley				13	41.60	3200	13	41.60
		Gram	1	0.70	700					
		Mustard	2	1.80	900	12	16.20	1350	14	18.00
3	Zaid	Tomato								
		Cucurbits				2	23.00	11500	2	23.00
		Fodder				12	264.00	22000	12	264.00
Total			71	96.66		100	518.55		170	614.51
Gram Panchayat : Madhogarh										
Village : Gumanpura										
1	Kharif	Bajra	60	81.00	1350				60	81.00
		Groundnut	2	2.60	1300				2	2.60
		Guar	7	4.55	650				7	4.55
		Pulses								
2	Rabi	Wheat				40	112.00	2800	40	112.00
		Barley				14	40.60	2900	14	40.60
		Tarameera	7	3.15	450				7	3.15
		Mustard	7	4.90	700	18	22.50	1250	25	27.40
3	Zaid	Tomato				2	27.00	13500	2	27.00
		Cucurbits				1	11.50	11500	1	11.50
		Fodder				10	210.00	21000	10	210.00
Total			83	96.2		85	423.6		168	519.8

S.No.	Season	Crop Sown	Rainfed			Irrigated			Total	
			Area (ha)	Production (Tons)	Productivity (kg/ha)	Area (ha)	Production (Tons)	Productivity (kg/ha)	Area (ha)	Production (Tons)
Village : Gwalini										
1	Kharif	Bajra	150	202.50	1350				150	202.50
		Groundnut	5	6.50	1300				5	6.50
		Guar	20	14.00	700				20	14.00
		Pulses								
2	Rabi	Wheat				120	330.00	2750	120	330.00
		Barley				10	29.00	2900	10	29.00
		Gram								
		Mustard	3	2.10	700	37	48.10	1300	40	50.20
3	Zaid	Tomato				5	70.00	14000	5	70.00
		Cucurbits				3	33.00	11000	3	33.00
		Fodder				10	220.00	22000	10	220.00
Total			178	225.1		185	730.1		363	955.2
Village : Madhogarh										
1	Kharif	Bajra	75	105.00	1400				75	105.00
		Groundnut	4	5.20	1300				4	5.20
		Guar	15	11.25	750				15	11.25
		Pulses	4	1.20	300				4	1.20
2	Rabi	Wheat				27	74.25	2750	27	74.25
		Barley				24	68.40	2850	24	68.40
		Tarameera	13	4.55	350				13	4.55
		Mustard	52	31.20	600	14	16.10	1150	66	47.30
3	Zaid	Tomato								
		Cucurbits								
		Fodder				10	210.00	21000	10	210.00
Total			163	158.4		75	368.75		238	527.15
Village : Chak Madhogarh										
1	Kharif	Bajra	23	31.05	1350				23	31.05
		Til	4	1.24	310				4	1.24
		Guar	4	2.60	650				4	2.60
		Vegetables				1	11.00	11000	1	11.00
2	Rabi	Wheat				17	46.75	2750	17	46.75
		Barley				7	19.95	2850	7	19.95
		Tarameera	2	0.70	350				2	0.70
		Mustard	1	0.60	600	6	6.90	1150	7	7.50
3	Zaid	Fodder				1.5	31.50	21000	1.5	31.50
Total			34	36.19		32.5	116.1		66.5	152.29
Gram Panchayat : Bhudla										
Village : Bhudla										
1	Kharif	Bajra	180	261.00	1450				180	261.00
		Groundnut	6	7.20	1200				6	7.20
		Til	8	3.20	400				8	3.20
		Guar	13	9.10	700				13	9.10
2	Rabi	Wheat				104	291.20	2800	104	291.20
		Barley				30	90.00	3000	30	90.00
		Tarameera	4	1.60	400				4	1.60
		Mustard				43	53.75	1250	43	53.75
3	Zaid	Vegetables				1	12.00	12000	1	12.00
		Fodder				15	315.00	21000	15	315.00
Total			211	282.1		193	761.95		404	1044.05
Village : Rojwari										
1	Kharif	Bajra	81	113.40	1400				81	113.40
		Til	2	0.70	350				2	0.70
		Guar	1	0.65	650				1	0.65
		Vegetables				2	26.00	13000	2	26.00
2	Rabi	Wheat				34	93.50	2750	34	93.50
		Barley				11	31.35	2850	11	31.35
		Tarameera	3	1.35	450		0.00		3	1.35
		Mustard				8	9.60	1200	8	9.60
3	Zaid	Fodder				5	95	19000	5	95.00
Total			87	116.1		60	255.45		147	371.55

S.No.	Season	Crop Sown	Rainfed			Irrigated			Total	
			Area (ha)	Production (Tons)	Productivity (kg/ha)	Area (ha)	Production (Tons)	Productivity (kg/ha)	Area (ha)	Production (Tons)
Village : Baori Ka Bass										
1	Kharif	Bajra	35	52.50	1500				35	52.50
		Til	2	0.70	350				2	0.70
		Vegetables				5	60.00	12000	5	60.00
2	Rabi	Wheat				14	39.90	2850	14	39.90
		Barley				4	12.20	3050	4	12.20
		Gram	1	0.75	750				1	0.75
		Vegetables				1	13.00	13000	1	13.00
3	Zaid	Fodder				4	72.00	18000	4	72.00
Total			38	53.95		28	197.1		66	251.05
Village : Rajwas										
1	Kharif	Bajra	88	118.80	1350				88	118.80
		Til	1	0.30	300				1	0.30
		Vegetables				3	33.00	11000	3	33.00
2	Rabi	Wheat				64	172.80	2700	64	172.80
		Barley				10	28.50	2850	10	28.50
		Mustard	1	0.75	750	29	36.25	1250	30	37.00
		Fodder				15	285.00	19000	15	285.00
Total			90	119.85		121	555.55		211	675.4
Gram Panchayat : Rajpura Patalwas										
Village : Rajpura Patalwas										
1	Kharif	Bajra	190	285.00	1500				190	285.00
		Groundnut	6	7.80	1300				6	7.80
		Guar	31	23.25	750				31	23.25
		Til	4	1.40	350				4	1.40
2	Rabi	Wheat				67	201.00	3000	67	201.00
		Barley				29	92.80	3200	29	92.80
		Tarameera	2	0.70	350				2	0.70
		Mustard				15	20.25	1350	15	20.25
3	Zaid	Cucurbits				5	65.00	13000	5	65.00
		Fodder				10	225.00	22500	10	225.00
Total			233	318.15		126	604.05		359	922.2
Village : Tekchandpura										
1	Kharif	Bajra	75	108.75	1450				75	108.75
		Groundnut	2	2.70	1350				2	2.70
		Guar	15	11.25	750				15	11.25
		Til	4	1.40	350				4	1.40
2	Rabi	Wheat				13	36.40	2800	13	36.40
		Barley				10	30.00	3000	10	30.00
		Mustard				2	2.70	1350	2	2.70
3	Zaid	Fodder				12	228.00	19000	12	228.00
Total			96	124.1		37	297.1		133	421.2
Village : Charangarh										
1	Kharif	Bajra	81	121.50	1500				81	121.50
		Groundnut	3	4.05	1350				3	4.05
		Guar	22	17.60	800				22	17.60
		Til	4	1.60	400				4	1.60
2	Rabi	Wheat				39	111.15	2850	39	111.15
		Barley				8	24.40	3050	8	24.40
		Vegetables				8	104.00	13000	8	104.00
		Mustard				7	9.45	1350	7	9.45
3	Zaid	Cucurbits				3	34.50	11500	3	34.50
		Fodder				13	247.00	19000	13	247.00
Total			110	144.75		78	530.5		188	675.25
Village : Dhingar Ka Bass										
1	Kharif	Bajra	45	56.25	1250				45	56.25
		Groundnut	5	6.00	1200				5	6.00
		Guar	15	10.50	700				15	10.50
		Til	3	1.05	350				3	1.05
2	Rabi	Wheat				25	70.00	2800	25	70.00
		Barley				9	26.55	2950	9	26.55
		Vegetables				19	228.00	12000	19	228.00
		Mustard				4	5.00	1250	4	5.00
3	Zaid	Cucurbits								
		Fodder				3	57.00	19000	3	57.00
Total			68	73.8		60	386.55		128	460.35

S.No.	Season	Crop Sown	Rainfed			Irrigated			Total	
			Area (ha)	Production (Tons)	Productivity (kg/ha)	Area (ha)	Production (Tons)	Productivity (kg/ha)	Area (ha)	Production (Tons)
Village : Tillpati										
1	Kharif	Bajra	71	102.95	1450				71	102.95
		Groundnut	1	1.35	1350				1	1.35
		Guar	15	12.00	800				15	12.00
		Til	3	1.20	400				3	1.20
2	Rabi	Wheat				77	215.60	2800	77	215.60
		Barley				31	93.00	3000	31	93.00
		Fodder				3	57.00	19000	3	57.00
		Mustard				12	15.60	1300	12	15.60
3	Zaid	Fodder				5	105.00	21000	5	105.00
Total			90	117.5		128	486.2		218	603.7
Village : Kho- Rajewala										
1	Kharif	Bajra	20	27.00	1350				20	27.00
		Guar	3	2.25	750				3	2.25
		Til	1	0.40	400				1	0.40
2	Rabi	Wheat				1	2.80	2800	1	2.80
		Barley								
		Tarameera	2	0.80	400				2	0.80
		Mustard	1	0.75	750				1	0.75
3	Zaid	Fodder				1	18.00	18000	1	18.00
Total			27	31.2		2	20.8		29	52
Gram Panchayat : Anatpura										
Village : Ratanpura										
1	Kharif	Bajra	53	71.55	1350				53	71.55
		Groundnut				6	11.10	1850	6	11.10
		Guar	18	13.50	750				18	13.50
		Til	6	2.40	400				6	2.40
2	Rabi	Wheat				24	67.20	2800	24	67.20
		Barley				15	45.00	3000	15	45.00
		Gram				2	1.60	800	2	1.60
		Mustard				18	21.60	1200	18	21.60
3	Zaid	Fodder				5	90.00	18000	5	90.00
Total			77	87.45		70	236.5		147	323.95
Village : Biharipura										
1	Kharif	Bajra	53	71.55	1350				53	71.55
		Groundnut							0	0.00
		Guar	18	15.30	850	3	6.00	2000	21	21.30
		Til	5	2.00	400				5	2.00
2	Rabi	Wheat				31	83.70	2700	31	83.70
		Barley				13	37.05	2850	13	37.05
		Gram	2	1.00	500	2	1.60	800	4	2.60
		Mustard	2	1.50	750	10	13.00	1300	12	14.50
3	Zaid	Fodder				3	54.00	18000	3	54.00
Total			80	91.35		62	195.35		142	286.7
G. Total			1872	2330.52		2386.5	11050.4		4061.5	13375.32

ANNEXURE - I

Gram Panchayat Wise Details of Various User Groups Constituted for Development of Activities

Gram Panchayat: Karangarh

S.No.	Name/Fathers Name	Village	Postion
Contour /Med Bandi User Group			
1	Sh. Kailash Chand/Mool Chand Sharma	Nagrajpura	President
2	Sh Radhey Shya/Chajuram Sharma	Nagrajpura	Member
3	Sh. Jagdish/Kanhiya Lal Meena	Bhudarpura	Member
4	Sh.Ramrai/Pratap Gurjar	Ballupura	Member
5	Sh. Ramesh/Jagdish Bairwa	Lalpura	Member
WHS/Anicut User Group			
1	Sh. Gopal/Gaindi Lal Meena	Bhudarpura	President
2	Sh. Babulal/Kalyan Sharma	Nagrajpura	Member
3	Sh. Chandar/Nainu Ram Meena	Bhudarpura	Member
4	Sh. Girdhari/Mahadev Sharma	Lalpura	Member
5	Sh. Ramfool/Dhana Meena	Ballupura	Member
Pasture Development User Group			
1	Sh. Babulal/Rameshwar Sharma	Lalpura	President
2	Sh. Ramlal/Nainuram Bairwa	Lalpura	Member
3	Sh. Gordhan/Govindram Meena	Nagrajpura	Member
4	Sh. Sitaram/Govindram Meena	Ballupura	Member
5	Sh. Ramji Lal./Shreenarayan Sharma	Nagrajpura	Member
6	Sh. Babulal/Kalyan Sharma	Ballupura	Member
Agriculture Development/Production User Group			
1	Sh. Jagdish Singh/Bhanwar Singh Rajput	Ballupura	President
2	Sh. Ramsahay/Kushalram Sharma	Nagrajpura	Member
3	Sh. Hanuman/Radheshyam Sharma	Nagrajpura	Member
4	Sh. Shyonarayan/Nanagram Meena	Bhudarpura	Member
5	Sh. Girdhari/Mahadev Sharma	Lalpura	Member

S.No.	Name/Fathers Name	Village	Postion
Horticulture/Nursery User Group			
1	Sh. Kalyan Sahay/Nanagram Sharma	Nagrajpura	President
2	Sh. Kaidar/Nandlal Sharma	Nagrajpura	Member
3	Sh. Kailash/Shyojiram Meena	Bhudarpura	Member
4	Sh. Ramdayal/Bhorilal Raigar	Ballupura	Member
5	Sh. Sitaram/Parmanand Sharma	Lalpura	Member
Animal Husbandary Development User Group			
1	Sh. Kaluram /Sitaram Sharma	Nagrajpura	President
2	Sh. Kailash/Moolchand Sharma	Nagrajpura	Member
3	Sh Krishn/Dhana Meena	Bhudarpura	Member
4	Sh. Sitaram/Moolchand Sharma	Bhudarpura	Member
5	Sh. Chittar/Ladu Gurjar	Ballupura	Member
Landless Peoples User Group			
1	Sh. Gordhanlal/Gangashaya Sharma	Nagrajpura	President
2	Sh. Rajendra/Chothmal Balai	Nagrajpura	Member
3	Sh. Laduram/Hardev Bairwa	Ballupura	Member
4	Sh. Nathu/Habu Meena	Bhudarpura	Member
5	Sh. Jootha/Mangi Lal Koli	Bhudarpura	Member

Gram Panchayat: Madhogarh

S.No.	Name/Fathers Name	Village	Postion
Contour /Med Bandi User Group			
1	Sh. Kailash Chand/Gokul Bairwa	Gumanpura	President
2	Sh. Vinod/Arjun Meena	Gwalini	Member
3	Sh. Prakash/Jagdish Sharma	Gwalini	Member
4	Sh. Panchuram Mali	Madhogarh	Member
5	Sh. Gopal Lal/Chittar Jangir	Gwalini	Member
WHS/Anicut User Group			
1	Sh. Chandrashekhhar/Harimohan Sharma	Gwalini	President
2	Sh. Pawan/Ramgopal Meena	Gwalini	Member
3	Sh. Lalchand/Shankar Lal Bairwa	Gwalini	Member
4	Sh. Gopal /Gallu Koli	Madhogarh	Member
5	Sh. Shankarlal/Jainarayan Sharma	Gwalini	Member
Pasture Development User Group			
1	Sh. Shankarlal/Gokul Chand Kumhar	Madhogarh	President
2	Sh. Ramkaran/Bhorilal Bairwa	Madhogarh	Member
3	Sh.Nandlal/Moolchand Meena	Madhogarh	Member
4	Sh. Hemraj/Kailash Chand Sharma	Chak Madhogarh	Member
5	Sh. Ramji Lal/Mahadev Sharma	Gwalini	Member
Agriculture Development/Production User Group			
1	Sh. Laduram/Rewarmal Gurjar	Gumanpura	President
2	Sh. Babulal/ Rewarmal Mali	Madhogarh	Member
3	Sh. Phool Chand/Hajari Keer	Madhogarh	Member
4	Sh. Kailash Chand/Bhorilal Mali	Madhogarh	Member
5	Sh. Harchand/Moolchand Meena	Gwalini	Member

S.No.	Name/Fathers Name	Village	Postion
Horticulture/Nursery User Group			
1	Sh. Gopal/Kanhiyalal Meena	Gwalini	President
2	Sh. Bhagwan/Kanhiyalal Teli	Madhogarh	Member
3	Sh. Jagdish/Dhanna Meena	Gwalini	Member
4	Sh Nathu/Bhorilal Sharma	Gwalini	Member
5	Sh. Badri/Por Koli	Madhogarh	Member
Livestock Development User Group			
1	Sh. Banwari Lal/Radheyshyam Sharma	Madhogarh	President
2	Sh. Ramesh Sharma/Nathulal Sharma	Gwalini	Member
3	Sh Nairnuram/Prabhathi Lal Mahawar	Gwalini	Member
4	Sh. Chiranji Lal/Lallu Jhangir	Gwalini	Member
5	Sh. Mohan Lal/Gallu Mahavar	Gwalini	Member
Landless Peoples User Group			
1	Sh. Gopal/ Singh/Kalyan Singh Daroga	Gumanpura	President
2	Sh. Raghuveer Singh/Vasudev Daroga	Gumanpura	Member
3	Sh. Sultan/Bhori Lal Jogi	Madhogarh	Member
4	Sh. Lalaram/Naitaram Ragar	Madhogarh	Member
5	Mrs. Geeta/Raju Harijan	Madhogarh	Member

cont.

Gram Panchayat: Toonga

S.No.	Name/Fathers Name	Village	Postion
Contour /Med Bandi User Group			
1	Sh. Nandlal/Govind Ram Meena	Siya Ka Bass	President
2	Sh. Kailash/Nathu Lal Sharma	Toonga	Member
3	Sh. Ramswoop Meena/Moti Lal Meena	Toonga	Member
4	Sh. Jagdish/Shyonath Meena	Akhepura	Member
5	Sh. Udaram/Ganga Kishan Meena	Chak Toonga	Member
WHS/Anicut User Group			
1	Sh. Hemraj Mahant/Kanhiya Lal Mahant	Toonga	President
2	Sh. Harinarayan/Badri Narayan Sharma	Toonga	Member
3	Sh. Ramsahay /Shyonarayan Meena	Siya Ka Bass	Member
4	Sh. Prahlad/Chandalal Meena	Akhepura	Member
5	Sh. Ghasi/Balu Sharma	Toonga	Member
Pasture Development User Group			
1	Sh. Premprakash/Radheysyam	Toonga	President
2	Sh. Prahlad/Kanhiyalal Saini	Toonga	Member
3	Sh. Kajod/Dhana Lal Meena	Siya Ka Bass	Member
4	Sh. Hanuman/Bhagwan Sahay Meena	Siya Ka Bass	Member
5	Sh. Prabhu/Shrinarayan	Akhepura	Member
Agriculture Development/Production User Group			
1	Shri Om Prakash/Ganga Ram Bairwa	Toonga	President
2	Sh. Panchuram/Pratap Sharma	Toonga	Member
3	Sh. Ramswoop /Gyarsi Lal Sharma	Toonga	Member
4	Sh. Meetha Lal /Hariram Meena	Siya Ka Bass	Member
5	Sh. Jagdish/Ladoo Sharma	Akhepura	Member
6	Sh. Ramvatar Sharma	Toonga	Member

S.No.	Name/Fathers Name	Village	Postion
Horticulture/Nursery User Group			
1	Sh. Ramniwas/Ramjeevan Sharma	Toonga	President
2	Sh. Rameshwar/Ramanand Sharma	Toonga	Member
3	Sh. Ramcharan/Ramkishore Sharma	Toonga	Member
4	Sh. Ranglal/Hansa Nat	Siya Ka Bass	Member
5	Sh. Chotilal/Jagdish Prasad Sharma	Akhepura	Member
6	Sh. Pappu/Rewar Mali	Toonga	Member
Livestock Development User Group			
1	Sh. Meethalal/Ramsahay Meena	Siya Ka Bass	President
2	Sh. Ramniwas/Jagdish Sharma	Toonga	Member
3	Sh. Kailash/Jagdish Sharma	Toonga	Member
4	Sh. Shankar/Gopal Sharma	Akhepura	Member
5	Sh. Ramphool/Mewaram Meena	Akhepura	Member
Landless Peoples User Group			
1	Sh Arjunlal/Rewarmal Bairwa	Toonga	President
2	Sh. Shakoor urf Kailash/Mahadev Luhar	Toonga	Member
3	Sh. Ramkishan Dhanka	Toonga	Member
4	Sh. Panchooram/Nanagram Saini	Akhepura	Member
5	Sh. Kishanlal Bagriya	Toonga	Member

Gram Panchayat: Garh (Doobli)

S.No.	Name/Fathers Name	Village	Postion
Contour /Med Bandi User Group			
1	Sh. Heeralal/Gopal Gurjar	Doobli	President
2	Sh. Ramratan/Mewa Ram Gurjar	Doobli	Member
3	Sh. Brijmohan/Nandlal Sharma	Doobli	Member
4	Sh. Ramswoop/Moolchand Gurjar	Doobli	Member
5	Sh. Gulabchand/Jodharam Gurjar	Doobli	Member
6	Sh. Ramjilal /Govind Sharma	Doobli	Member
7	Sh. Sholaram/Rewarmal Gurjar	Doobli	Member
WHS/Anicut User Group			
1	Sh. Raghuveer/Harpal Gurjar	Doobli	President
2	Sh. Sitaram/Bhorilal Sharma	Doobli	Member
3	Sh. Badri/Mahadev Sharma	Doobli	Member
4	Sh. Chanda Lal/Jaganath Sharma	Doobli	Member
5	Sh. Durgalal/Kaluram Jhangir	Doobli	Member
6	Sh. Kanhiyalal/Moolchand Gurjar	Doobli	Member
Agriculture Development/Production User Group			
1	Sh. Sholaram/Rewar Gurjar	Doobli	President
2	Sh. Prahlad/Heera Lal Gurjar	Doobli	Member
3	Sh. Bansi Lal/Nand Lal Sharma	Doobli	Member
4	Sh. Sitaram/Moolchand Sharma	Doobli	Member
5	Sh. Kailash/Harinarayan Sharma	Doobli	Member
6	Sh. Prahlad/Ramswoop Gurjar	Doobli	Member
Horticulture/Nursery User Group			
1	Sh. Gulab Chand/Jodharam Gurjar	Doobli	President
2	Sh. Kailash/Bhagwan Sahay Sharma	Doobli	Member
3	Sh. Nathulal/Badri Sharma	Doobli	Member
4	Sh. Damodar/Chotelal Sharma	Doobli	Member
5	Sh. Shankar/Mahadev Sharma	Doobli	Member
6	Sh. Harphool/Ramdhan Gurjar	Doobli	Member
7	Mukesh/Raghuveer Gurjar	Doobli	Member

S.No.	Name/Fathers Name	Village	Postion
Livestock Development User Group			
1	Sh. Bhagwan Sahay /Mahadev Sharma	Doobli	President
2	Sh. Ashok.Chotilal Sharma	Doobli	Member
3	Sh. Soorghyan/Kalu Gurjar	Doobli	Member
4	Sh. Vishnu/Bansilal Sharma	Doobli	Member
5	Sh. Babulal/Govind Sharma	Doobli	Member
6	Sh. Kailash Chand/Bhagwansahay Sharma	Doobli	Member
7	Sh. Prahalad/Heeralal Gurjar	Doobli	Member
Landless Peoples User Group			
1	Sh. Kajod/Mahadev Dhanka	Doobli	President
2	Sh Suresh/Ranjeet Dhanka	Doobli	Member
3	Sh. Chaju/Ramchand Bairwa	Doobli	Member
4	Sh. Bhagwan Sahay/Raghunath Kumhar	Doobli	Member
5	Sh. Pooran/Bhorilal Harijan	Doobli	Member
6	Sh. Rajaram/Bhonrilal Gurjar	Doobli	Member
7	Sh. Lalchand/Bhagwan Sahay Kumhar	Doobli	Member
S C/ ST User Group			
1	Mrs Uganti /Kajod Dhanka	Doobli	President
2	Sh. Chaju/Ramchand Bairwa	Doobli	Member
3	Mrs. Kaili/Kalyan Sahay Bairwa	Doobli	Member
4	Sh. Ramesh/Ranjeet Dhanka	Doobli	Member
5	Sh. Raju/Ramdhan Dhanka	Doobli	Member
6	Mrs. Laxmi/Mahadev Dhanka	Doobli	Member

Cont.

Gram Panchayat: Anaptura

S.No.	Name/Fathers Name	Village	Postion
Contour /Med Bandi User Group			
1	Sh. NathulalGyarsa Meena	Biharipura	President
2	Sh. Ramulal/Bhonrilal Sharma	Ratanpura	Member
3	Sh. Lanaram/Chittar Meena	Ratanpura	Member
4	Sh. Gopal/Lakharam Meena	Biharipura	Member
5	Sh. Shankar/Moolchand Bairwa	Ratanpura	Member
WHS/Anicut User Group			
1	Sh. Ramchand/Mangilal Bairwa	Ratanpura	President
2	Sh. Minarayan/Panchu Saini	Ratanpura	Member
3	Sh. Kaluram/Moolchand Meena	Biharipura	Member
4	Sh. Birda/Bhagwan Meena	Biharipura	Member
5	Sh. Ramsahay/Ramkumar Meena	Biharipura	Member
Agriculture Development/Production User Group			
1	Sh. Nandlal/Ramnath Meena	Biharipura	President
2	Sh. Bhagwan/Gendilal Saini	Ratanpura	Member
3	Sh. Bhonrilal/Mangilal Bairwa	Ratanpura	Member
4	Sh. Ramotar/Chujuram Meena	Biharipura	Member
5	Sh. Jagdish/Mohan Meena	Biharipura	Member
Pasture Development User Group			
1	Sh. Jassiram/Panchuram Meena	Biharipura	President
2	Sh. Khaiwar/Moolchand Meena	Biharipura	Member
3	Sh. Ramniwas/Ishwar Mali	Ratanpura	Member
4	Sh. Chittar/Moolchand Saini	Ratanpura	Member
5	Sh. Ganpat Singh/Chinglal Singh	Ratanpura	Member

S.No.	Name/Fathers Name	Village	Postion
Horticulture/Nursery User Group			
1	Sh. Ramphool/Gendilal Saini	Ratanpura	President
2	Sh. Shankarlal/Bhorilal Sharma	Biharipura	Member
3	Sh. Ramkishan/Pheliram Meena	Ratanpura	Member
4	Sh. Manphool/Ramkunwar Meena	Biharipura	Member
5	Sh. Shyonath/Bhorilal Meena	Ratanpura	Member
Livestock Development User Group			
1	Sh. Ramprasad/Mahadev Sharma	Ratanpura	President
2	Sh. Ramkishore/Shyojiram Saini	Ratanpura	Member
3	Sh. Gyarsilal/Jootharam Saini	Ratanpura	Member
4	Sh. Nehnuram/Gyarsa Meena	Biharipura	Member
5	Bherulal/Lakharam Meena	Biharipura	Member

ANNEXURE - II

Gram Panchayat wise/ Watershed Committee wise Details of Various Self Help Groups

Gram Panchayat: Karangarh

S.No.	Name/Fathers Name	Village	Postion
1	Smt. Koshalya Devi/Ganesh Narayan Meena	Bhudarpura	President
2	Smt. Ani Devi/Kailash Chand Meena	Bhudarpura	Secreatary
3	Smt. Rajanti Devi/Prabhudayal Meena	Bhudarpura	Member
4	Smt. Nangi Devi/Hajarilal Meena	Bhudarpura	Member
5	Smt. Gulab Devi/Meetha Lal Meena	Bhudarpura	Member
6	Smt. Mewali Devi/Kanhiyalal Meena	Bhudarpura	Member
7	Smt. Guli Devi/Jagdishnarayan Meena	Bhudarpura	Member
8	Smt. Bhonri Devi/Ramchand Meena	Bhudarpura	Member
9	Smt. Laxmi Devi/Moolchand Meena	Bhudarpura	Member
10	Smt. Krishna Devi/Pheli Ram Meena	Bhudarpura	Member

S.No.	Name/Fathers Name	Village	Postion
1	Smt. Yashwant Kanwar/Ghanshyam Singh Rajawat	Ballupura	President
2	Smt. Manju Kanwa/Shankar Singh	Ballupura	Treasurer
3	Smt. Sulochna Kanwar/Khem Singh	Ballupura	Secreatary
4	Smt. Sua Kanwar/Sumer Singh	Ballupura	Member
5	Smt. Santosh Kanwar/Sunsar Singh	Ballupura	Member
6	Smt. Gopal Kanwar/Shambh Singh	Ballupura	Member
7	Smt. Raghuraj Kanwar/Jagdish Singh	Ballupura	Member
8	Smt. Jai Kanwar/Rajendra Singh	Ballupura	Member
9	Smt. Rasal Kanwar/Roop Singh	Ballupura	Member

1	Smt. Sunita Devi/Shambhudayal Sharma	Nagrajpura	President
2	Smt. Suman Devi/Mukesh Kumar Sharma	Nagrajpura	Secreatary
3	Smt. Jankidevi/Kanhiyalal Sharma	Nagrajpura	Member
4	Smt. Sunita Devi/Mukesh Kumar Sharma	Nagrajpura	Member
5	Smt. Geeta Devi/Roopnarayan Sharma	Nagrajpura	Member
6	Smt. Badam Devi/Suresh Kumar Sharma	Nagrajpura	Member
7	Smt. Shanti Devi/Hanuman Sahay Sharma	Nagrajpura	Member
8	Smt. Manju Devi/Banwari Lal Sharma	Nagrajpura	Member
9	Smt. Anita Devi/Rajendra Kumar Sharma	Nagrajpura	Member
10	Smt. Premdevi/Lalit Mohan Sharma	Nagrajpura	Member

1	Smt. Savitri Devi/Babulal Sharma	Lalpura	President
2	Smt. Pushpa Devi/Makhanlal Sharma	Lalpura	Secreatary
3	Smt. Chota Devi/Dhanalal Bairwa	Lalpura	Member
4	Smt. Geeta Devi/Ramesh Chand Bairwa	Lalpura	Member
5	Smt. Premdevi/Chaju Lal Sharma	Lalpura	Member
6	Smt. Bhonri Devi/Ghasi Lal Sharma	Lalpura	Member
7	Smt. Kamla Devi/Satya Narayan Sharma	Lalpura	Member
8	Smt. Gyatri Devi/Giriraj Prasad Sharma	Lalpura	Member
9	Smt. Chand Devi/Murari Lal Sharma	Lalpura	Member
10	Smt. Sonal Devi/Rajulal Bairwa	Lalpura	Member
11	Smt. Shimla Devi/Om Prakash Sharma	Lalpura	Member

Gram Panchayat: Madhogarh

S.No.	Name/Fathers Name	Village	Postion
1	Smt. Ramjanki Devi/Vinod Jangir	Gumanpura	President
2	Smt. Savitri Devi/Madan Lal Jangir	Gumanpura	Secreatary
3	Smt. Rekha /Ramchand Jangir	Gumanpura	Treasurer
4	Smt. Manju /Kapil Jangir	Gumanpura	Member
5	Smt. Soma/Gopal Lal Mahavar	Gumanpura	Member
6	Smt. Santosh Devi/Mohan Lal Mahawar	Gumanpura	Member
7	Smt. Mangi Devi/Nathu Lal Mahawar	Gumanpura	Member
8	Smt. Namni Devi/Ghasi Ram Sharma	Gumanpura	Member
9	Smt. Nathi Devi/Ram Prasad Sharma	Gumanpura	Member
10	Smt. Seema Devi/Shankar Sharma	Gumanpura	Member

Gram Panchayat: Toonga

S.No.	Name/Fathers Name	Village	Postion
1	Smt. Koshalya /Harji Meena	Akhepura	President
2	Smt. Nandu/Dayaram Meena	Akhepura	Secreatary
3	Smt. Racha/Prahlad Meena	Akhepura	Treasurer
4	Smt. Bhaguti/Lalu Meena	Akhepura	Member
5	Smt. Uganti/Shrawan Meena	Akhepura	Member
6	Smt. Guddi/Kalu Meena	Akhepura	Member
7	Smt. Suman/Raju Meena	Akhepura	Member
8	Smt. Sunita/Shankar Sharma	Akhepura	Member
9	Smt. Guddi / Babu Lal Sharma	Akhepura	Member

1	Smt. Savitri/Jeetendra Sharma	Toonga	President
2	Smt. Rekha /Kamlesh Sharma	Toonga	Secreatary
3	Smt. Nangi /Banwari Sharma	Toonga	Treasurer
4	Smt. Kalji/Jagdish Sharma	Toonga	Member
5	Smt. Shanti/Bhagdhan Sharma	Toonga	Member
6	Smt. Shimla/Giriraj Sharma	Toonga	Member
7	Smt. Madhu/Aashish Sharma	Toonga	Member
8	Smt. Asha/Ramprasad Sharma	Toonga	Member
9	Smt. Narayani/Rajmal Sharma	Toonga	Member
10	Smt. Manbhar/Rajmal Sharma	Toonga	Member
11	Smt. Reena/Lalu Lal Sharma	Toonga	Member

S.No.	Name/Fathers Name	Village	Postion
1	Smt. Krishna Devi/Meetha Lal Meena	Siya Ka Bass	President
2	Smt. Kamli/Jagdish Meena	Siya Ka Bass	Secreatary
3	Smt. Rajeswari/Gopal Meena	Siya Ka Bass	Treasurer
4	Smt. Rama Devi/Harinarayan Meena	Siya Ka Bass	Member
5	Smt. Ramoti/Kaloram Meena	Siya Ka Bass	Member
6	Smt. Lohari/Meda Ram Meena	Siya Ka Bass	Member
7	Smt. Raju Devi/Moti Lal Meena	Siya Ka Bass	Member
8	Smt. Geeta Devi/Dayaram Meena	Siya Ka Bass	Member
9	Smt. Lali Devi/Ramji Lal Meena	Siya Ka Bass	Member
10	Smt. Meera Devi/Hemraj Meena	Siya Ka Bass	Member
11	Smt. Neha Devi/Harimohan Meena	Siya Ka Bass	Member
12	Smt. Laxmi Devi/Balla Ram Meena	Siya Ka Bass	Member
13	Smt. Sushila/Jagdish Meena	Siya Ka Bass	Member

Compost Fertilizer Group

S.No.	Name/Fathers Name	Village	Postion
1	Sh. Ramnarayan/Gauri Lal Sharma	Akhepura	President
2	Sh. Ramswaroop/Shivsahay Sharma	Akhepura	Secretary
3	Sh. Ramrai / Ramsahay Sharma	Akhepura	Treasurer
4	Sh. Badrinarain/Gauri Lal Sharma	Akhepura	Member
5	Sh. Hanuman Sahay/Moolchand Sharma	Akhepura	Member
6	Sh. Gopal /Jagnath Sharma	Akhepura	Member
7	Sh. Badrinarain / Srinarayan Sharma	Akhepura	Member
8	Sh. Prabhunarain /Srinarayan Sharma	Akhepura	Member
9	Sh. Banwari/Rewarmal Sharma	Akhepura	Member
10	Sh. Rajesh Sharma/Kanhiya Lal Sharma	Akhepura	Member
11	Sh. Jaddish /Ramsahay Sharma	Akhepura	Member
12	Sh. Radha Krishna/Mahadev Sharma	Akhepura	Member

Gram Panchayat: Garh (Doobli)

S.No.	Name/Fathers Name	Village	Postion
1	Smt. Mamta/Chandra Mohan Sharma	Doobli	President
2	Smt Geeta/Pintoo Sharma	Doobli	Secreatary
3	Smt. Kamla/Kalu Sharma	Doobli	Treasurer
4	Smt. Savitri/Babulal Sharma	Doobli	Member
5	Smt. Nathi/Radhakishan Gurjar	Doobli	Member
6	Smt. Ush/Vishnu Sharma	Doobli	Member
7	Smt. Richa/Om Prakash Sharma	Doobli	Member
8	Smt. Rajanti/Gulab Gurjar	Doobli	Member
9	Smt. Prem/Harbhajan Gurjar	Doobli	Member
10	Smt. Manju/Kailash Sharma	Doobli	Member

S.No.	Name/Fathers Name	Village	Postion
Mangal SHG Group			
1	Smt. Kamla/Chaju Gurjar	Doobli	President
2	Smt. Gulab/Prahlad Gurjar	Doobli	Treasurer
3	Smt. Kaisar/Harsahay Gurjar	Doobli	Member
4	Smt. Seeta/Babu Lal Gurjar	Doobli	Member
5	Smt. Kali/Kanhiyala Gurjar	Doobli	Member
6	Smt. Shanti/SriNarayan Gurjar	Doobli	Member
7	Miss Teeja /Ramswroop Gurjar	Doobli	Member
8	Miss Nahana/Ramswroop Gurjar	Doobli	Member
9	Smt. Kailasi/Pheliram Gurjar	Doobli	Member

Kiran SHG Group

1	Smt. Sita /Kailash Sharma	Doobli	President
2	Miss Seema/Ramjila Sharma	Doobli	Treasurer
3	Smt. Kani Shankar Sharma	Doobli	Member
4	Smt. Manni/Ramji Lal Sharma	Doobli	Member
5	Smt. Urmila/Damodar Sharma	Doobli	Member
6	Smt Sita/Lalchand Sharma	Doobli	Member
7	Smt. Geeta/Ramavtar Sharma	Doobli	Member
8	Smt. Prema/Ashok Sharma	Doobli	Member
9	Smt. Laxmi/Bansi Sharma	Doobli	Member
10	Smt. Parvati/Nand Lal Sharma	Doobli	Member

Gram Panchayat: Anaptura

S.No.	Name/Fathers Name	Village	Postion
1	Smt. Savita Kanwar/Sanwal Singh	Ratanpura	President
2	Smt. Prabhati Devi/Kanhiya Lal Bairwa	Ratanpura	Secreatary
3	Smt. Radha Saini/Suresh Saini	Ratanpura	Treasurer
4	Smt. Uganti Devi/Ramniwas	Ratanpura	Member
5	Smt. Neev Bai/Girdhari	Ratanpura	Member
6	Smt. Mohan Kanwar/Ganpat Singh	Ratanpura	Member
7	Smt. Dhapa Devi/ Govardhan	Ratanpura	Member
8	Smt. Lali Devi/ Ramesh Chand Bairwa	Ratanpura	Member
9	Smt. Meena Devi/Hanuman Sahay Saini	Ratanpura	Member
10	Smt. Suman Devi/Soman Saini	Ratanpura	Member
11	Smt. Pushpa Devi/Suresh Saini	Ratanpura	Member

S.No.	Name/Fathers Name	Village	Postion
1	Smt. Mamta Devi/Om Prakash Meena	Biharipura	President
2	Smt. Tara Devi/Prem Prakash Meena	Biharipura	Secreatary
3	Smt. Rajanti Devi/Ramji Lal Meena	Biharipura	Treasurer
4	Smt. Ramkoori Devi/Nathu Ram Meena	Biharipura	Member
5	Smt. Lali Meena/Rajendra Meena	Biharipura	Member
6	Smt. Sita Devi/Ramavtar Meena	Biharipura	Member
7	Smt. Tampu Devi/Kaluram Meena	Biharipura	Member
8	Smt Rajanti Devi/Gyarsi Meena	Biharipura	Member
9	Smt. Asha Devi/Kaluram Meena	Biharipura	Member
10	Smt. Sugna Devi/Ramchand Meena	Biharipura	Member

ANNEXURE - III

Gram Panchayat wise/ Watershed Committee wise Details of Watershed Committee

S.No.	Name/Fathers Name	Village	Postion
Watershed Committe Karangarh			
1	Sh. Ram Sahaya/Shyonarayan Meena	Kailiyawala	President
2	Sh. Babulal/Kalyan Sharma	Nagrajpura	Secreatary
3	Sh. Kailash/Moolchand Sharma	Nagrajpura	Member
4	Sh. Gopal/Genda Lal Meena	Bhudarpura	Member
5	Sh. Babulal/Rameshwar Sharma	Bhudarpura	Member
6	Sh. Jagdish Singh/Bhanwar Singh Rajput	Ballupura	Member
7	Sh. Kalyan Sahay/Nanagram Sharma	Nagrajpura	Member
8	Sh. Kaluram/Sita Ram Sharma	Nagrajpura	Member
9	Sh. Govardhan/Ganga Sahay Sharma	Nagrajpura	Member
10	Smt. Savitri/Babu Lal Sharma	Lalpura	Member
11	Smt. Sunita/Shambhu Sharma	Nagrajpura	Member
12	Smt. Koshiya/Ganesh Sharma	Bhudarpura	Member
13	Smt. Koshiya/Lalaram Jangir	Ballupura	Member

S.No.	Name/Fathers Name	Village	Postion
Watershed Committee Madhogarh			
1	Sh. Shiv Pratap Singh/Bhawani Singh	Madhogarh	President
2	Sh. Babulal/Gendalal Meena	Madhogarh	Secreatary
3	Sh. Kailash Chand/Gokul Chand Bairwa	Gumanpura	Member
4	Sh. Chandrshekar/Harimohan Sharma	Madhogarh	Member
5	Sh. Shankar Lal/Gokulchand Kumahar	Gumanpura	Member
6	Sh. Laduram/Rewar Gurjar	Gumanpura	Member
7	Sh. Gopal/Kanhiya Lal Meena	Gwalini	Member
8	Sh. Banwari Lal/Radheshyam	Madhogarh	Member
9	Sh. Gopal Singh/Kalyan Singh Daroga	Gumanpura	Member
10	Smt. Manju /Kailash Chand Sharma	Madhogarh	Member
11	Smt. Prem Devi/Kanaram Meena	Gwalini	Member
12	Smt. Beena Devi/Chote Lal Mahawar	Madhogarh	Member

S.No.	Name/Fathers Name	Village	Postion
Watershed Committe Toonga			
1	Sh. Nandaram/Govindram Meena	Siya Ka Bass	President
2	Sh. Babulal/Ramnivas Sharma	Toonga	Secreatary
3	Sh. Hemraj/Kanhiyalal Mahant	Toonga	Member
4	Sh. Premprakash/Radheyshyam Gupta	Toonga	Member
5	Sh. Om Prakash Bairwa/Ganga Ram	Toonga	Member
6	Sh. Ramniwas/Ramjeevan Patel	Toonga	Member
7	Sh. Meethalal/Ramsahay Meena	Siya Ka Bass	Member
8	Sh. Arjunlal/Rewarmal Bairwa	Toonga	Member
9	Sh. Savitri Devi/Jetendra sharma	Toonga	Member
10	Smt. Koshaliya/Harji Meena	Akehapura	Member
11	Smt. Krishna Devi/Meetha Lal Meena	Siya Ka Bass	Member

S.No.	Name/Fathers Name	Village	Postion
Watershed Committe Doobli			
1	Sh Heeralal/Gopal Gurjar	Doobli	President
2	Sh. Brij Mohan/Nandlal Sharma	Doobli	Secreatary
3	Sh. Raghuveer/Harpal Gurjar	Doobli	Member
4	Sh. Kajod/Mahadev Dhanka	Doobli	Member
5	Sh. Sholaram/Rewar Gurjar	Doobli	Member
6	Sh. Gulabchand/Jodharam Gurjar	Doobli	Member
7	Sh. Bhagwan Sahaya/Mahadev Sharma	Doobli	Member
8	Sh. Pooran/Bhonri Lal Harijan	Doobli	Member
9	Smt. Uganti/Kajor Dhanka	Doobli	Member
10	Smt. Kamla/Chaju Ram Gurjar	Doobli	Member
11	Smt. Sita Devi/Kailash Chand Sharma	Doobli	Member

S.No.	Name/Fathers Name	Village	Postion
Watershed Committe Anatpura			
1	Sh. Kanhiya Lal/Moolchand Bairwa	Ratanpura	President
2	Sh. Rang Lal/Babu Lal Saini	Ratanpura	Secreatary
3	Sh. Nathu Lal Gyrsa Meena	Biharipura	Member
4	Sh. Ramchand/Mangiram Bairwa	Ratanpura	Member
5	Sh. Jammiram/Panchuram Bairwa	Biharipura	Member
6	Sh. Nandlal/Ramnath Meena	Biharipura	Member
7	Sh. Ramphool/Gendilal Saini	Ratanpura	Member
8	Sh. Ramprasad/Mahadev Sharma	Ratanpura	Member
9	Sh. Ramnivas/Kanhiya Lal Sharma	Ratanpura	Member
10	Smt. Savita Kanwar/Sanwal Singh	Ratanpura	Member
11	Smt. Radha Devi/Tulsi Ram Saini	Ratanpura	Member
12	Smt. Lali Devi/Rajendra Meena	Biharipura	Member

ANNEXURE - IV
List of Beneficiaries/Cultivators selected for Horticulture Plants

Gram Panchayat: Karangarh

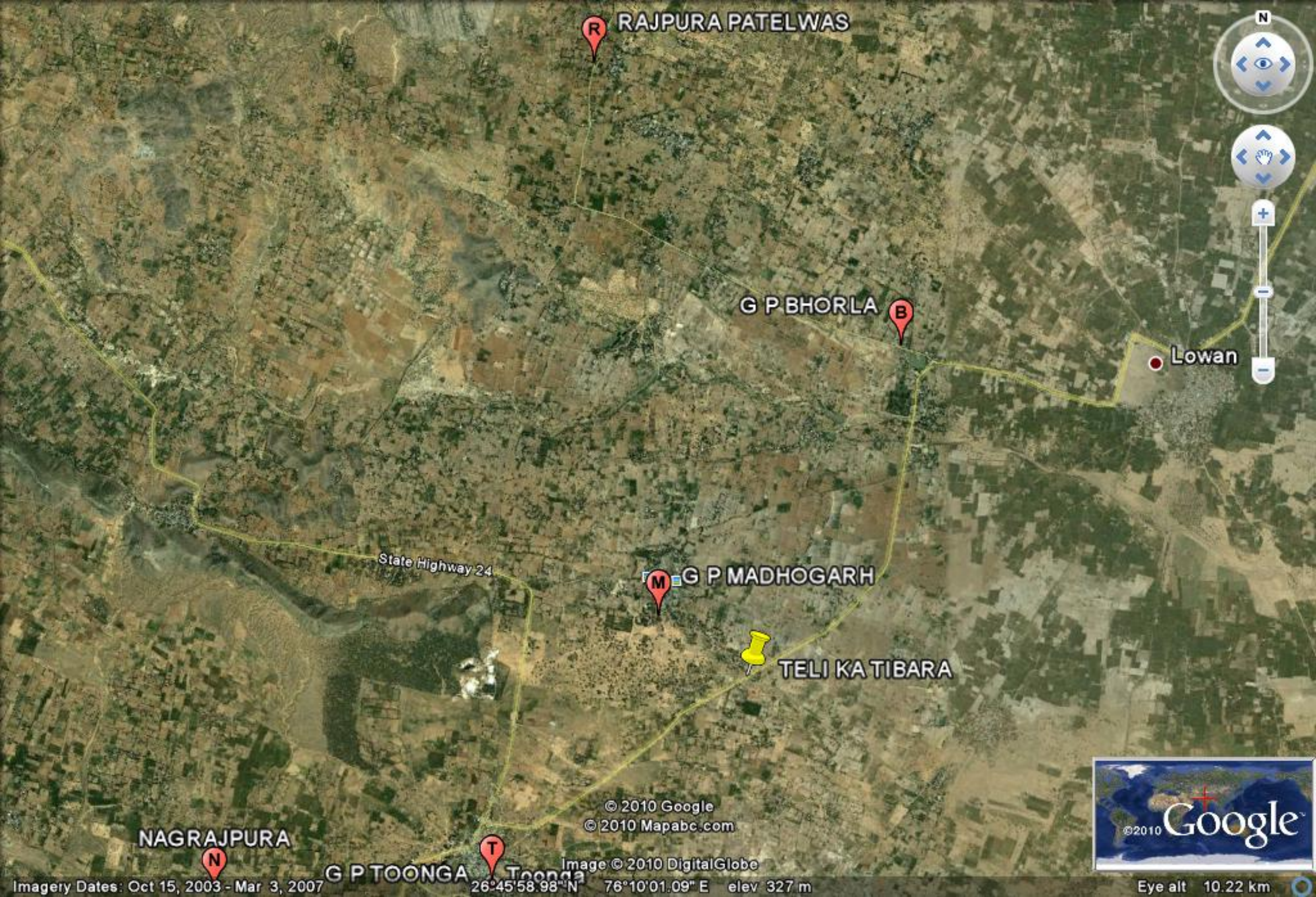
S.No.	Name/Father's Name	Caste	Village	No. of Plants	Varieties of Plants	Area (Bigha)
1	Sh. Shrawan Lal/ Kanhiya Lal	Sharma	Lalpura	200	Anwala, Katahal, Beel	2.00
2	Sh. Shrikrishna/Ramnarayan	Sharma	Lalpura	200	Anwala, Katahal, Beel, Nimbu	2.00
3	Sh. Jagdish Narayan/Ramnarayan	Sharma	Lalpura	200	Anwala, Katahal, Beel, Nimbu	2.00
4	Sh. Ramavtar/Kalyan	Sharma	Lalpura	100	Anwala, Katahal, Beel, Nimbu	1.00
5	Sh. Rameshwar/Raghunath	Sharma	Lalpura	100	Anwala, Katahal, Beel, Nimbu	1.00
6	Smt. Rambai/Gopal Lal	Sharma	Lalpura	100	Anwala, Katahal, Beel, Nimbu	1.00
7	Sh. Ramniwas/Pratapnarayan	Sharma	Lalpura	200	Anwala, Katahal, Beel, Nimbu	2.00
8	Sh Ramswoop/Govindnarayan	Sharma	Lalpura	300	Anwala, Katahal, Beel, Nimbu	3.00
9	Sh. Kaidarprasad/Govindnarayan	Sharma	Lalpura	300	Anwala, Katahal, Beel, Nimbu	3.00
10	Sh. Narayan Lal/Onkarlal	Sharma	Lalpura	200	Anwala, Katahal, Beel, Nimbu	2.00
11	Sh. Ramanand/Pramanand	Sharma	Lalpura	200	Anwala, Katahal, Beel, Nimbu	2.00
12	Sh. Bansilal/Panchuram	Sharma	Lalpura	200	Anwala, Katahal, Beel, Nimbu	2.00
13	Sh. Laxminarayan/Bhuraram	Sharma	Lalpura	200	Anwala, Katahal, Beel, Nimbu	2.00
14	Sh. Jagdish Singh/Bhanwar Singh	Rajput	Ballupura	500	Anwala, Katahal, Beel, Nimbu	5.00
15	Sh. Raghuveer Singh/Madho Singh	Rajput	Ballupura	500	Anwala, Katahal, Beel, Nimbu	5.00
16	Sh. Ramniwas/Bhonri Lal	Meena	Bhudharpura	200	Anwala, Katahal, Beel, Nimbu	2.00
17	Sh. Shyonarayan/Nanagram	Meena	Bhudharpura	300	Anwala, Katahal, Beel, Nimbu	3.00
18	Sh. Ramesh/Badri Naryana	Meena	Bhudharpura	200	Anwala, Katahal, Beel, Nimbu	2.00
19	Sh. Devnarayan/Dhokla	Meena	Bhudharpura	200	Anwala, Katahal, Beel, Nimbu	2.00
20	Sh. Gopal Lal/Gendi Lal	Meena	Bhudharpura	300	Anwala, Katahal, Beel, Nimbu	3.00
21	Sh. Ramjilal/Srinarayan	Sharma	Nagrajpura	400	Anwala, Katahal, Beel, Nimbu	4.00
22	Sh. Gopal Lal/Kushalaram	Sharma	Nagrajpura	100	Anwala, Katahal, Beel, Nimbu	1.00
23	Sh. Banwari Lal/Kalyansahay	Sharma	Nagrajpura	100	Anwala, Katahal, Beel, Nimbu	1.00
24	Sh. Rameshwar/Johari Lal	Sharma	Nagrajpura	200	Anwala, Katahal, Beel, Nimbu	2.00
25	Sh. Ghanshyam/Shrinaryan	Sharma	Nagrajpura	200	Anwala, Katahal, Beel, Nimbu	2.00
26	Sh Prabhudayal/Bhuraram	Sharma	Nagrajpura	300	Anwala, Katahal, Beel, Nimbu	3.00
27	Sh. Madholal/Kalyan	Sharma	Nagrajpura	200	Anwala, Katahal, Beel, Nimbu	2.00
28	Sh. Babu Lal/Kalyan Sahay	Sharma	Nagrajpura	200	Anwala, Katahal, Beel, Nimbu	2.00
29	Sh Rameshwar/Nanagram	Sharma	Nagrajpura	200	Anwala, Katahal, Beel, Nimbu	2.00
30	Sh. Ganpatlal/Daularam	Sharma	Nagrajpura	300	Anwala, Katahal, Beel, Nimbu	3.00
31	Sh. Gokul Chand/Gangaram	Sharma	Nagrajpura	200	Anwala, Katahal, Beel, Nimbu	2.00
32	Sh. Radheyshyam/Chajuram	Sharma	Nagrajpura	200	Anwala, Katahal, Beel, Nimbu	2.00
33	Sh. Kailash Chand/Chajuram	Sharma	Nagrajpura	200	Anwala, Katahal, Beel, Nimbu	2.00
34	Sh. Roopnarayan/Kalyan	Sharma	Nagrajpura	200	Anwala, Katahal, Beel, Nimbu	2.00
35	Sh. Kailash/Moolchand	Sharma	Nagrajpura	400	Anwala, Katahal, Beel, Nimbu	4.00
36	Sh. Nandlal/Gendi Lal	Sharma	Nagrajpura	200	Anwala, Katahal, Beel, Nimbu	2.00
37	Sh. Kanaram/Raghunath	Meena	Nagrajpura	200	Anwala, Katahal, Beel, Nimbu	2.00
38	Sh. Rameshwar/Badrinarayan	Sharma	Nagrajpura	200	Anwala, Katahal, Beel, Nimbu	2.00
39	Sh. Moolchand/Kashiram	Sharma	Nagrajpura	200	Anwala, Katahal, Beel, Nimbu	2.00
40	Sh. Kaidar/Kusla	Sharma	Nagrajpura	100	Anwala, Katahal, Beel, Nimbu	1.00
41	Sh. Babu Lal / Johari Lal	Sharma	Nagrajpura	100	Anwala, Beel, Nimbu	1.00
42	Sh. Jagnantha/Chotilal	Sharma	Nagrajpura	100	Anwala, Beel, Nimbu	1.00
43	Sh. Fateh Singh/Hanuman Singh	Rajput	Nagrajpura	200	Anwala, Katahal, Beel, Nimbu	2.00
44	Sh. Radheyshyam/Mangilal	Sharma	Nagrajpura	200	Anwala, Katahal, Beel, Nimbu	2.00
45	Sh. Prabhudayal/Raghunath	Sharma	Nagrajpura	100	Anwala, Katahal, Beel, Nimbu	1.00
46	Sh. Babulal/Ramdhan Sharma	Sharma	Nagrajpura	200	Anwala, Katahal, Beel, Nimbu	2.00
Total				9900		99.00

Gram Panchayat: Toonga

S.No.	Name/Father's Name	Village	No. of Plants	Varieties of Plants
1	Sh. Mohan Lal /Goduram Saini	Toonga	12	Mango, Nimbu, Anwala, Katahal
2	Sh. Ramnivas/Ramjeevan Patel	Toonga	51	Nimbu, Anwala, Katahal, Karunja
3	Sh. Ghasi/Baluram Sharma	Toonga	16	Mango, Nimbu, Anwala, Karunja
4	Sh. Bhagwan/Chothmal Sharma	Toonga	32	Mango, Nimbu, Karunja, Anwala, Katahal
5	Sh. Madan Lal/Rampratap Shyal	Toonga	19	Mango, Nimbu, Karunja, Anwala, Katahal
6	Sh. Ramswroop/Motiram Meena	Toonga	21	Mango, Nimbu, Karunja, Anwala, Katahal
7	Sh. Kalu/Panchuram Saini	Toonga	8	Mango, Nimbu, Karunja, Anwala, Katahal
8	Sh. Ramsahay/Sheonaryan Meena	Siya Ka Bass	35	Mango, Nimbu, Karunja, Anwala, Katahal
9	Sh. Gopal/Sheonarayan Meena	Siya Ka Bass	26	Mango, Nimbu, Karunja, Anwala, Katahal
10	Sh. Parsa/Chothram Meena	Siya Ka Bass	19	Mango, Nimbu, Karunja, Anwala, Katahal
11	Sh. Mangal Chand/Jaganath Meena	Siya Ka Bass	10	Mango, Karunja, Anwala
12	Sh. Hanuman/Bhagwan Sahay Meena	Siya Ka Bass	21	Mango, Nimbu, Karunja, Anwala, Katahal
13	Sh. Ramdhan/Ramu Meena	Siya Ka Bass	50	Mango, Nimbu, Karunja, Anwala, Katahal
14	Sh. Rugnath/Gangasahay Meena	Siya Ka Bass	50	Mango, Nimbu, Karunja, Anwala, Katahal
15	Sh. Hanuman/Bhagwan Meena	Siya Ka Bass	10	Mango, Nimbu, Anwala, Katahal
16	Sh. Ramsahay/Sheonaryan Meena	Siya Ka Bass	10	Mango, Nimbu, Karunja, Anwala, Katahal
17	Sh. Gopal/Rewadmam Sharma	Akhepura	117	Mango, Nimbu, Anwala, Katahal
18	Sh. Prahlad/Chandalal Meena	Akhepura	50	Mango, Nimbu, Anwala, Katahal, Karunja
19	Sh. Ramphool/Medaram Meena	Akhepura	50	Anwala
20	Sh. Kajod/Chajuram Meena	Akhepura	30	Nimbu, Anwala
21	Sh. Sitarm/Naayan Sharma	Akhepura	60	Nimbu, Anwala
22	Sh. Kanhiya Lal/Shrinarayan Sharma	Akhepura	45	Mango, Nimbu, Karunja, Anwala, Katahal
23	Sh. Gopal/Shrinarayan Sharma	Akhepura	45	Mango, Nimbu, Karunja, Anwala, Katahal
24	Sh. Prabhu/Shrinaryan Sharma	Akhepura	50	Mango, Nimbu, Karunja, Anwala, Katahal
25	Sh. Kailash/Shrinaryan Sharma	Akhepura	30	Nimbu, Karunja, Anwala
26	Sh. Ramnarayan/Bhaurilal Sharma	Akhepura	20	Nimbu, Anwala, Katahal, Karunja
27	Sh. Ganga Sahay/Mahadev Sharma	Akhepura	37	Nimbu, Anwala, Katahal, Karunja
28	Sh. Badrinaryan/Ramsahay	Akhepura	45	Nimbu, Anwala, Katahal, Karunja
29	Sh. Ramrai/Gauri Lal	Akhepura	40	Mango, Nimbu, Karunja, Anwala, Katahal
30	Sh. Ramswroop/Shivsahay	Akhepura	55	Mango, Nimbu, Karunja, Anwala, Katahal
31	Sh. Satyanarayan/Badrinarayan	Akhepura	30	Mango, Nimbu, Karunja, Anwala, Katahal
32	Sh. Moolchand/Govind Sharma	Akhepura	225	Mango, Nimbu, Karunja, Anwala, Katahal
Total			1319	

Gram Panchayat: Anatpura

S.No.	Name/Father's Name	Village	No. of Plants	Varieties of Plants
1	Sh. Anandi Lal /Gendi Lal Saini	Ratanpura	100	Anwala, Nimbu, Safeda
2	Sh. Ramphool/Dhana Lal	Ratanpura	100	Anwala, Nimbu, Safeda
3	Sh. Kailash Chand/Sheojiram Saini	Ratanpura	100	Anwala, Nimbu, Beel, Guawa, Anar
4	Sh. Ramjee Lal/Chotilal Saini	Ratanpura	100	Anwala, Nimbu
5	Sh. Ram Chand/Mangi Lal Bairwa	Ratanpura	50	Anwala, Nimbu
6	Sh. Harikishan/Shrinarayan Mali	Ratanpura	50	Anwala, Nimbu, Karunja
7	Sh. Ramniwas/Kanaram Meena	Ratanpura	100	Anwala, Nimbu
8	Sh. Ramprasad/Mahadev Sharma	Ratanpura	100	Anwala, Nimbu
9	Sh. Ganesh Saini/Birdaram Saini	Ratanpura	50	Sagwan, Sheeshan
10	Sh. Kanhiya Lal/Moolchand Bairwa	Ratanpura	50	Anwala, Nimbu
11	Sh. Chotilal/Moolchand Bairwa	Ratanpura	50	Anwala, Nimbu, Karunja
12	Sh. Shakarlal/Moolchand Bairwa	Ratanpura	50	Anwala, Nimbu
13	Sh. Ramkishan/Pheliram Meena	Ratanpura	50	Anwala, Nimbu, Mango
14	Sh. Kailash Chand/Lal Chand Saini	Ratanpura	50	Anwala, Nimbu
15	Sh. Kaluram/Moolchand Meena	Biharipura	50	Neem, Mango, Sagwan
16	Sh. Gendi Lal/Chanda Lal Meena	Biharipura	100	Neem, Ardu, Mango
17	Sh. Lal Chand/Jansi Meena	Biharipura	50	Beel, Guawa, Kathal
18	Sh. Nathu Lal Meena	Biharipura	50	Sagwan, Mango
19	Sh. Babu Lal/Birda Meena	Biharipura	100	Anwala, Mango, Nimbu
20	Sh. Ramsahay/Ramkunwar Meena	Biharipura	50	Mango
21	Sh. Manphool/Ramkunwar Meena	Biharipura	50	Neem, Anwala, Mango
22	Sh. Chotilal/Dhaka Meena	Biharipura	50	Anwala, Nimbu
Total			1500	



RAJPURA PATELWAS

G P BHORLA

Lowan

State Highway 24

G P MADHOGARH

TELI KA TIBARA

NAGRAJPURA

G P TOONGA

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Image © 2010 DigitalGlobe

26°45'58.98"N 76°10'01.09"E elev 327 m



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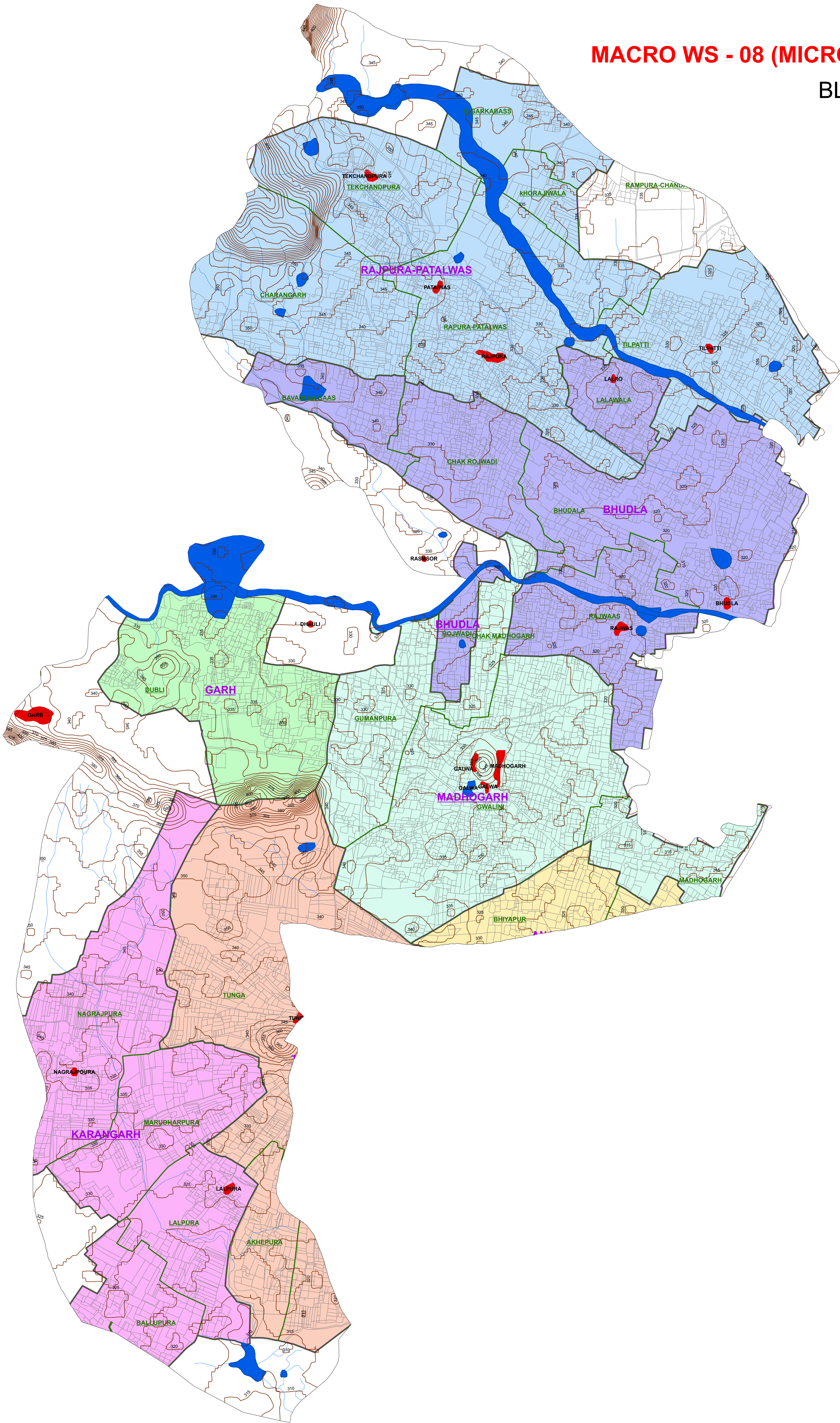
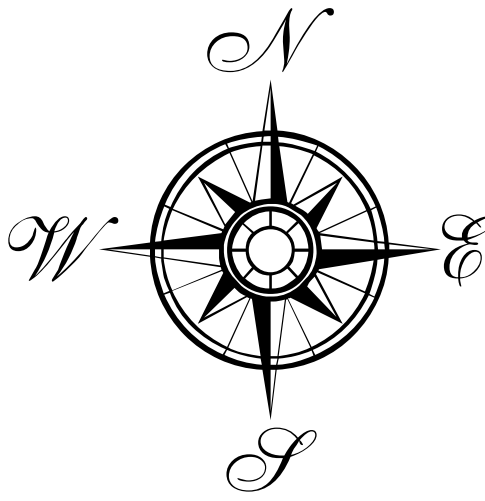
Imagery Dates: Oct 15, 2003 - Mar 3, 2007

BASE MAP

MACRO WS - 08 (MICRO WS - 1,2,4,5,10) & MACRO WS - 06(MICRO WS - 1)

BLOCK BASSI, DISTRICT JAIPUR

Scale 1:14,000



Legend

- contour-5m arc
- DRAINAGE
- RIVER / WB
- VILLAGE
- KHASARA
- SETTLEMENT
- outer polygon

GRAM-PANCHAYAT

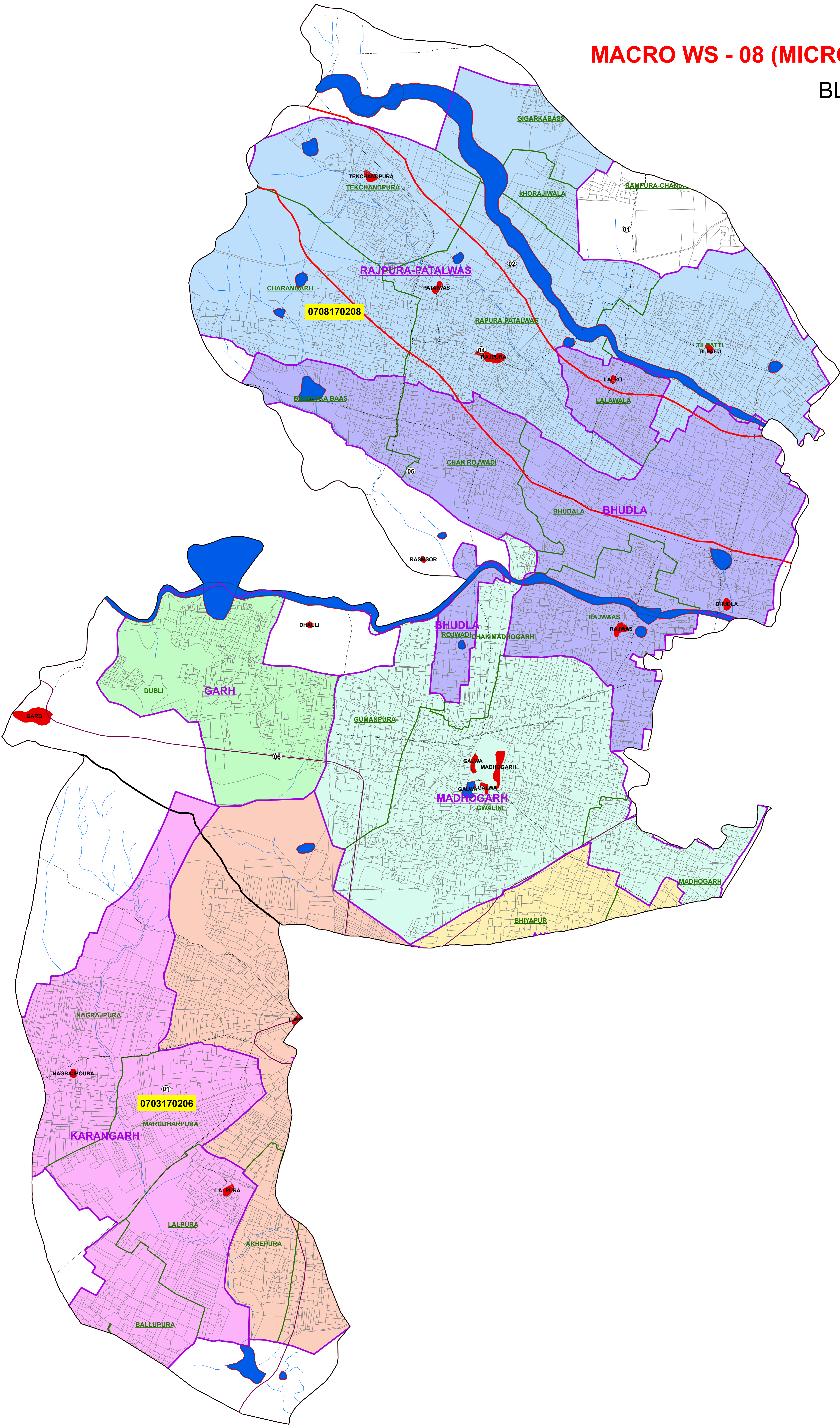
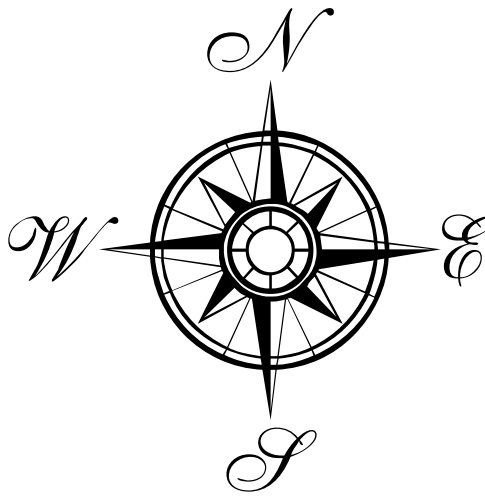
- ANATPURA
- BHUDLA
- GARH
- KARANGARH
- MADHOGARH
- RAJPURA-PATALWAS
- TUNGA

BASE MAP

MACRO WS - 08 (MICRO WS - 1,2,4,5,10) & MACRO WS - 06(MICRO WS - 1)

BLOCK BASSI, DISTRICT JAIPUR

Scale 1:14,000



Legend

STATE HIGHWAY NO.-02

STATE HIGHWAY NO.-24

METALLED ROAD

DRAINAGE

MACRO W/S BOUNDARY

RIVER / WB

MICRO W/S BOUNDARY

VILLAGE

<all other values>

SETTLEMENT

outer polygon

GRAM-PANCHAYAT

ANATPURA

BHUDLA

GARH

KARANGARH

MADHOGARH

RAJPURA-PATALWAS

TUNGA





DETAIL PROJECT REPORT

INTEGRATED WATERSHED MANAGEMENT PROGRAM

