OFFICE OF THE ASSTT. ENGINEER (PIA) IWMP P.S JALORE

# DETAILED PROJECT REPORT

# OF

# JALORE II (IWMP)

(UNDER INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

BLOCK: JALORE DISTRICT : JALORE

AGRO CLIMATIC ZONE- IIB

TOTAL GEOGRAPHICAL AREA – 4198 Hac.

TOTAL EFFECTIVE AREA- 4198 Hac.

TOTAL COST- 629.70 Lacs.

UNIT COST- 15,000/Hac.

SUBMITTED BY

PROJECT MANAGER

DISTRICT WATERSHED DEVELOPMENT UNIT

JAORE, (RAJASTHAN)

**DPR TEMPLATE**

**Index**

**S.No** **Topics** **Page no.**

**8.2 Documents of Agreements:**

- Proceedings of gram sabha for EPA approval
- Proceedings of gram sabha Resolution for committee constitution
- Documents related to PRA exercise
- Proceedings of gram sabha for DPR approval
- Proceedings of Panchayat Samiti General body for DPR approval
- Watershed Committee Registration certificate
- MoU – PIA – DWMA, PIA – WC(in case of NGO as PIA)

# CHAPTER – I

## INTRODUCTION

**Location**.

Jalore-(IWMP) II Project is located in Jalore Block, of Jalore district. The project area is between the 25° 24' N latitudes & 72° 40' E longitudes. It is at a distance of 20 km from its Block head quarters and 20 Kms from the district head quarters. There are 2412 no. of habitations in the Project area and other details are given below.

**General features of watershed**

| S.No. | Name of Project(as per GOI) | Jalore (IWMP) II |
|---|---|---|
| (a) | Name of Catchment | Jalore IWMP II |
| (b) | Name of watershed area(local name) | Jalore II |
| © | Project Area | 4198 Ha. |
| (d) | Net treatable Area | 4198 Ha. |
| e) | Cost of Project | 629.70 Lac. |
| f) | Cost/hectare | 15000 |
| g) | Year of Sanction | 2009-10 |
| h) | Watershed Code | |
| i) | No. of Gram Panchayats in project area | 7 |
| j) | No. of villages in project area | 11 |
| k) | Type of Project | Desert |
| l) | Elevation (metres) | - |
| m) | Major streams | Jawai Stream |
| n) | Slope range (%) | 0--1% |

| Macro/micro | Name of Gram Panchayat | Name of Villages Covered | Census code of villages | Area |
|---|---|---|---|---|
| 2/1,1/4, 1/5 | Samtipura | Samtipura | 02294000 | 553.50 |
| 2/1,1/4 | Samtipura | Maheshpura | 02294200 | 241.94 |
| 1/4,1/5 | Samtipura | Sardargadh | 02293900 | 180.50 |
| 2/3 | Sankarna | Sankarna | 02285600 | 769.63 |

| | | | | |
|---|---|---|---|---|
| 2/3 | Sankarna | Bichhawadi | 02285700 | 279.66 |
| 2/1,1/4 | Leta | Jalore B | 02293800 | 621.34 |
| 2/3, 1/4 | Godan | Godan | 02285800 | 463.02 |
| 1/4 | Badanwadi | Badanwadi | 02285400 | 594.06 |
| 1/4 | Desu | Desu | 02285300 | 112.43 |
| 2/3 | Uan | Uan | 02287900 | 288.84 |
| 2/3 | Uan | Bhagli Purohitan | 02287800 | 63.83 |

The watershed falls in Agroclimatic Zone-II B .The soil texture is sandylomy The average rainfall is 387 mm.The temperatures in the area are in the range between 35--47 centigrade during summer and 08—25 centigrade during winter. The major crops in the area are Bajra 80% land is under cultivation 8% land fallow,6% land is wasteland.Nil land is irrigated through Tubewell's

1037 No of households are BPL (27% households) 309 are landless households (8% households) and 1039 household are small and marginal farmers( 27 %household) .Average land holding in the area is 1.08 ha. 91.58% area is single cropped area and 8.42% is double cropped. The main source of irrigation is Tube well's. The average annual rainfall (5 years) in the area is 414 mm. The Major streams in the Watershed are Jawai stream. The major festivals in the village are Holi, Deewali, krishana janamaastmi, Navratra, Gangor, Raksha-bandhan. At present this village is having 21859 population with Communities like Rajput, Dewasi, Kumhar, Suthar, Mali,Rajpurohit,Meena,Megwal and Bhil.

**Climatic and Hydrological information**

| 1 | **Average Annual Rainfall(mm)** | |
|---|---|---|
| | Year | Average Annual Rainfall(mm) |
| 1 | 2001 | 340.00 mm |
| 2 | 2002 | 171.60 mm |
| 3 | 2003 | 660.60 mm |
| 4 | 2004 | 314.20 mm |
| 5 | 2005 | 320.60 mm |
| 6 | 2006 | 713.20 mm |
| 7 | 2007 | 368.00 mm |
| 8 | 2008 | 343.60 mm |
| 9 | 2009 | 198.60 mm |
| 10 | 2010 | 446.34 mm |

| | | | | |
|---|---|---|---|---|
| 2 | **Average Monthly rainfall (last ten years)** | | | |
| | Month | Rainfall(mm) | | |
| i) | June | 45.46 | | |
| ii) | July | 123.63 | | |
| iii) | August | 149.56 | | |
| iv) | September | 65.33 | | |
| **3** | **Maximum rainfall intensity (mm)** | | | |
| | Duration | rainfall intensity(mm) | | |
| | i) 15 minute duration | -- | | |
| | ii) 30 minute duration | -- | | |
| | iii) 60 minute duration | -- | | |
| 4 | **Temperature (Degree C)** | | | |
| | Season | | Max | Min |
| | i) Summer Season | | 45 | 25 |
| | ii) Winter Season | | 25 | 13 |
| | iii) Rainy Season | | 35 | 30 |

| | | | | |
|---|---|---|---|---|
| 5 | **Potential Evaporation Transpiration (PET) (mm/day)** | | | |
| | Season | | PET | |
| | i) Summer | | 1.17 | |
| | ii) Winter | | 0.53 | |
| | iii) Rainy | | 0.31 | |
| 6 | Runoff | | | |
| | i) Peak Rate (cum/hr) | | | |
| | ii) Total run off volume of rainy season (ha.m.) | | | |
| | iii) Time of return of maximum flood | 5 years | 10 years | In-Year |
| | iv)Periodicity of Drought in village area | | | |

**Other Development Schemes in the project area**

| S.No | Scheme | Name of the department | Key interventions under the Scheme | Targeted Beneficiaries | Provisions under the Scheme |
|---|---|---|---|---|---|
| 1 | MG NREGA | RURAL DEVELOPMENT & PANCHAYAT RAJ DEPARTMENT | - | - | - |
| 2 | TFC | | - | - | - |
| 3 | SFC | | - | - | - |
| 4 | BRGF | | - | - | - |
| 5 | TSC | | - | - | - |
| 6 | SGS | | - | - | - |
| 7 | IAY | | - | - | - |

**Details of infrastructure in the project areas**

| Parameters | | Status | | | |
|---|---|---|---|---|---|
| (i) | No. of villages connected to the main road by an all-weather road | 11 | | | |
| (ii) | No. of villages provided with electricity | 11 | | | |
| (iii) | No. of households without access to drinking water | | | | |
| (iv) | No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI) | (P) 22 | (S) 5 | (HS) 3 | (VI) - |
| (v) | No. of villages with access to Primary Health Centre | 13 | | | |
| (vi) | No. of villages with access to Veterinary Dispensary | 1 | | | |
| (vii) | No. of villages with access to Post Office | 5 | | | |
| (viii) | No. of villages with access to Banks | 1 | | | |
| (ix) | No. of villages with access to Markets/ mandis | 0 | | | |
| (x) | No. of villages with access to Agro-industries | NIL | | | |
| (xi) | Total quantity of surplus milk | 1000 Ltr. | | | |
| (xii) | No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O)) | (U) - | (S) - | (PA) 1 | (O) - |
| (xiii) | No. of villages with access to Anganwadi Centre | 22 | | | |
| (xiv) | Any other facilities with no. of villages (please specify) | - | | | |
| (xv) | KVK | Kesvana (Jalore) | | | |
| (xvi) | cooperative society | 7 | | | |
| (xvii) | NGOs | - | | | |
| (xviii) | Credit institutions | | | | |
| | (i) Bank | 1 | | | |
| | (ii) Cooperative Society | 7 | | | |
| (xix) | Agro Service Centre's | - | | | |

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

**DWDU Details**

| 1 | 2 | 3 |
|---|---|---|
| **S.No** | **Particulars** | **Details of DWDU** |
| **1.** | PM ,DWDU | Sh. Chandra prakash Bagdi Executive Engineer |
| **2.** | Address with contact no., website | PM, DWDU District Jalore |
| **3.** | Telephone | 9414263064 |
| **4.** | Fax | - |
| **5.** | E-mail | dwdu.jalore@gmail.com |

**PIA particulars**

| 1 | 2 | 3 |
|---|---|---|
| **S.No** | **Particulars** | **Details of PIA** |
| **6.** | Name of PIA | Sh. Shiv Kumar Lata |
| **7.** | Designation | Assist. Engineer |
| **8.** | Address with contact no., website | AEN. (IWMP) P.S. jalore |
| **9.** | Telephone | +919414133890 |
| **10** | Fax | - |
| **11** | E-mail | Jalore.iwmp@gmail.com |

**WDT Particulars:**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|
| S. No | Name of WDT member | M/F | Age | Qualification | Experience in watershed(Yrs) | Description of professional training | Role/ Function |
| 1 | Nanda Meena | F | 22 | B.A. Stc. | - | Yes | SHG |
| 2 | Sh. Ravindra singh Ranawat | M | 21 | 2Year Diploma in A.H. | - | Yes | Animal Husbandry |
| 3 | Sh. Bhoparam Bohamaniya | M | 35 | B.Sc. (A.g) | - | Yes | Agriculture |
| 4 | | | | | | | Watershed Management & Soil Conservetion |

**Details of Watershed Committees (WC)**

| S. N. | Name of WCs | Date of Gram Sabha for WC | Date of Registration as a Society (dd/mm/yyyy | Designation | Name | M/F | SC/ST/ OBC/General | Landless/ MF/SF/ BF | Name of UG/SHG | Educational qualification |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | **Desu** | 07-06-10 | - | President | Mahaveer singh S/o Amar Singh | M | ST | MF | - | Primary |
| | | | | Secretary | Narayan Singh S/o Auok Singh | M | OBC | MF | - | Secondary |
| | | | | Member | Hansharam S/o Kapoorji | F | SC | MF | - | - |
| | | | | | Bhairaram S/o Bagata ji | F | OBC | MF | - | - |
| | | | | | Rashal KanwerW/o Auok Singh | M | OBC | MF | - | Primary |
| | | | | | Chhagni W/o Mangiya | M | OBC | SF | - | Primary |
| | | | | | Hanja W/o Joita ram | M | OBC | SF | - | B.A. LLB |
| | | | | | Smt. Ganga Devi W/o Bhawaram | M | OBC | SF | - | B.A. |
| | | | | | Junjha ram S/o Devaram | M | SC | MF | - | Primary |
| | | | | | Rawat singh S/o Bheru Singh | M | SC | MF | UG | Middle |
| | | | | | Bhagraj S/o Magaram | F | OBC | MF | - | - |

| S.N. | Name of WCs | Date of Gram Sabha for WC | Date of Registration as a Society (dd/mm/yyyy | Designation | Name | M/F | SC/ST/ OBC/ Gen | Landless /MF/SF/ BF | Name of UG/SHG | Educational qualification |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | **Badanwadi** | 08-06-10 | - | President | Santilal S/O BhimaRam | M | OBC | SF | - | H.Sec. |
| | | | | Secretary | Ashok Kumar S/O Chhatra ram | M | SC | MF | - | Sec. |
| | | | | Member | Mahendra Singh S/o MishriSingh | F | SC | MF | - | - |
| | | | | | Mana ram S/o Vardha ji | F | OBC | MF | UG | - |
| | | | | | Smt. Poni Devi W/o Tima ram | F | OBC | MF | SHG | - |
| | | | | | Smt. Pasia W/o Kuia ram | M | ST | MF | - | Primary |
| | | | | | Udha ram S/o Chunaram | M | OBC | MF | - | Primary |
| | | | | | Babra Ram S/o Okharam | M | OBC | L.Less | - | - |
| | | | | | Khuma ram S/o Prahlad ram | M | OBC | MF | - | Primary |
| | | | | | Rana ram S/o Mangilal | M | SC | MF | UG | - |
| | | | | | Santilal S/O BhimaRam | M | Gen | SF | - | H. Sec. |

| S.N. | Name of WCs | Date of Gram Sabha for WC | Date of Registration as a Society (dd/mm/yyyy | Designation | Name | M/F | SC/ST/ OBC/ Gen | Landless /MF/SF/ BF | Name of UG/SHG | Educational qualification |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | **Samtipura** | 11-06-10 | - | President | Ghanshyam Singh S/O Parwat singh | M | Gen | BF | - | Graduate |
| | | | | Secretary | Mula ram S/O Shawa ram | M | OBC | MF | - | Secondary |
| | | | | Member | Jetha ram S/o Shawa ram | M | ST | MF | - | Middle |
| | | | | | Derama ram S/o Mannaji | M | OBC | MF | - | Literate |
| | | | | | Illaram S/o Prabhu ji | F | ST | MF | - | Literate |
| | | | | | Jitendra Singh S/o Harisingh | M | Gen | MF | UG | Graduate |
| | | | | | Praga ram S/o Manaji | M | OBC | MF | UG | Literate |
| | | | | | Okaram S/o Sadaji | M | OBC | MF | - | Middle |
| | | | | | Bhima ram S/o Modaji | M | OBC | MF | - | Middle |
| | | | | | Gajra w/o Megharam | F | OBC | MF | SHG | Literate |
| | | | | | Maina w/o Nainram | F | SC | MF | - | Literate |

| S.N. | Name of WCs | Date of Gram Sabha for WC | Date of Registration as a Society (dd/mm/yyyy | Designation | Name | M/F | SC/ST/ OBC/ Gen | Landless /MF/SF/ BF | Name of UG/SHG | Educational qualification |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | **Godan** | 10-06-10 | - | President | Hapta Ram S/0 Saka Ram | M | ST | MF | - | Middle |
| | | | | Secretary | Amra ram S/O tejaram | M | SC | SF | - | Secondary |
| | | | | Member | Bheem singh S/o Hanumn singh | M | OBC | MF | - | Middle |
| | | | | | Gangadevi w/o Himtaram | F | sc | SF | SHG | Ill Literate |
| | | | | | Isha w/o Babraram | F | ST | MF | - | Ill Literate |
| | | | | | Seemo w/o Himtaram | M | OBC | MF | - | Ill Literate |
| | | | | | Virma ram S/o Kasturji | M | OBC | SF | - | Literate |
| | | | | | UttamSingh S/o SambhuSingh | M | Gen | MF | UG | Middle |
| | | | | | Tikma ram S/o Nathaji | M | OBC | MF | UG | Ill Literate |
| | | | | | Jhabu Khan w/o Ali Khan | M | OBC | MF | - | Ill Literate |

| S.N. | Name of WCs | Date of Gram Sabha for WC | Date of Registration as a Society (dd/mm/yyyy | Designation | Name | M/F | SC/ST/ OBC/ Gen | Landless /MF/SF/ BF | Name of UG/SHG | Educational qualification |
|---|---|---|---|---|---|---|---|---|---|---|
| 5 | **sankarna** | 09-06-10 | - | President | Chopa Ram S/0 Vardaji | M | OBC | BF | - | Literate |
| | | | | Secretary | Gumansingh S/O Tejrajsingh | M | Gen | BF | - | M A |
| | | | | Member | Pukhraj S/o Madhosingh | M | gen | MF | - | Literate |
| | | | | | Ramsingh S/o hansrajji | M | Gen | MF | UG | Middle |
| | | | | | Narayansingh s/o Babuji | M | Gen | MF | UG | Literate |
| | | | | | Bhanwarlal s/o Chandaram | M | OBC | MF | - | Literate |
| | | | | | Shakuntala w/o Deepsingh | F | Gen | MF | - | Literate |
| | | | | | Sakaram S/o Motiji | M | ST | MF | - | Ill Literate |
| | | | | | Babulal S/o Hosaji | M | SC | MF | - | Ill Literate |
| | | | | | Kamla w/o Jeparam | F | SC | MF | SHG | Ill Literate |
| | | | | | Devi w/o Hemtaram | F | SC | SF | _ | Ill Literate |

| S.N. | Name of WCs | Date of Gram Sabha for WC | Date of Registration as a Society (dd/mm/yyyy | Designation | Name | M/F | SC/ST/ OBC/ Gen | Landless /MF/SF/ BF | Name of UG/SHG | Educational qualification |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | **Leta** | 19-06-10 | - | President | Chaganlal S/0 Ganeshaji | M | OBC | BF | - | Middle |
| | | | | Secretary | Tikmaram S/O Galbaram | M | OBC | MF | - | Secondary |
| | | | | Member | Malu w/o Thanaram | F | OBC | MF | - | Literate |
| | | | | | Poni S/o Jasaram | F | OBC | L.Less | - | Ill Literate |
| | | | | | Kamla w/o Umaram | F | OBC | MF | - | Ill Literate |
| | | | | | Bhursingh s/o Khimvsingh | M | OBC | MF | UG | Literate |
| | | | | | Lalu khan ji s/o Kasam Khan ji | M | OBC | SF | - | Literate |
| | | | | | Mohanlal S/o Madaji | M | OBC | MF | UG | Literate |
| | | | | | Bhomaram S/o Khangarji | M | OBC | MF | UG | Secondary |
| | | | | | Chotharam S/o Achlaji | M | OBC | MF | - | Ill Literate |
| | | | | | Ukaram S/o Sangram ji | M | OBC | MF | - | Literate |

| S.N. | Name of WCs | Date of Gram Sabha for WC | Date of Registration as a Society (dd/mm/yyyy | Designation | Name | M/F | SC/ST/ OBC/ Gen | Landless /MF/SF/ BF | Name of UG/SHG | Educational qualification |
|---|---|---|---|---|---|---|---|---|---|---|
| 7 | **Uan** | 29-04-11 | - | President | Jointaram S/0 Gajaji | M | OBC | BF | - | Secondary |
| | | | | Secretary | Kansingh S/O Bhopji | M | Gen | MF | UG | Middle |
| | | | | Member | Jabarpuri s/o Khimpuri | M | OBC | MF | UG | Literate |
| | | | | | Vadli W/o valaram | F | SC | L.Less | - | Ill Literate |
| | | | | | Kamla Devi w/o Karansingh | F | Gen | MF | - | Ill Literate |
| | | | | | Aasusingh s/o valaji | M | Gen | MF | - | Literate |
| | | | | | Bhimaram s/o gomaji | M | OBC | MF | - | Literate |
| | | | | | Ansi Devi w/o Goparam | F | SC | MF | - | Ill Literate |
| | | | | | Kamla devi W/o Ranaram | F | SC | MF | - | Ill Literate |
| | | | | | Chatraram S/o Bhairaji | M | OBC | MF | - | Ill Literate |
| | | | | | Diwali devi w/o Mansaram | F | ST | L.Less | - | Ill Literate |

**Problems and scope of improvement in the project area**

The socio economic conditions of the area can be improved through increased production which can be achieved through expansion in cultivated area and productivity enhancement. 0 ha land is arable wasteland and 869 ha is fallow can be brought under cultivation.

597 ha is only irrigated and with efforts this can be increased to 700. The productivity gap of major crops in the area as compared with district and with areas in the same agro climatic zones indicate potential to increase the productivity. The demonstration of improved package of practices, improved varieties, increased irrigation facilities and soil conservation measures under the project can bridge this gap. Due to small land holdings in the area focus of the project would be on diversification in agriculture (horticulture, vegetables, green houses, Agro forestry, fodder crops)and diversification in Livelihoods(Agriculture, Animal husbandry, self employment)

89850 Quintal fodder scarcity can be met out through Pasture development .Improved animal Husbandry practices can increase the productivity of livestock. 2850 no of persons migrate due to Employment this migration can be checked through creation of employment opportunities in the project area through increase in production and diversification in agriculture and Livelihoods as mentioned above.

# CHAPTER – II

## Socio economic Features, Problems and Scope

**Table 2.1 Population & Household Details:**

| Total Population | | | | |
|---|---|---|---|---|
| **Male** | **Female** | **Total** | **SC** | **ST** |
| 10744 | 11115 | 21859 | 3482 | 2968 |

| Household Details | | | | | | |
|---|---|---|---|---|---|---|
| **BPL household** | **L. Less** | **Small Farmer** | **M. Farmer** | **Total household** | **SC household** | **ST household** |
| 1037 | 309 | 814 | 225 | 3855 | 273 | 410 |

**Table 2.2 Development indicators**

| S. No. | Development Indicators | State | Project Area |
|---|---|---|---|
| 1 | Per capita income (Rs.) | 16260 | 16150 |
| 2 | Poverty ratio | 0.22 | 26.56% |
| 3 | Literacy (%) | 0.604 | 40.78% |
| 4 | Sex Ratio | 921 | 1017 |
| 5 | infant mortality rate | | 5.90% |
| 6 | maternal mortality ratio | | 0.04% |

The table indicates poor socio economic conditions.

**Table 2.3 Land Use**

| Land Use | Total area in Ha. | | | | |
|---|---|---|---|---|---|
| | Private | Panchayat | Government | Community | Total |
| Agriculture Land | 3162.59 | - | - | - | 3162.59 |
| Temporary fallow | - | - | - | - | - |
| Permanent Fallow | - | - | - | - | - |
| Cultivated Rainfed | 2529 | - | - | - | 2529 |
| Cultivated irrigated | - | - | - | - | - |
| Net Sown Area | 3162.59 | - | - | - | 3162.59 |
| Net Area sown more than once | 2529 | - | - | - | 2529 |
| Forest Land | - | - | 28.71 | - | 28.71 |
| Waste Land | - | - | 46.40 | - | 46.40 |
| Pastures | - | 430.75 | - | - | - |
| Others | - | - | 360.56 | 168.99 | 529.55 |
| Total | - | - | - | - | 4198 |

The project area has 0 ha of cultivable wasteland . 869 ha of fallow land (total 4198 ha) can be brought under cultivation if some irrigation source can be provided through Construction of WHS like Khadin, Tanka, Farm ponds etc. and also through demonstration of rainfed

varieties of crops. Construction of WHS can also increase in area under irrigation which is only 8.71%

541 ha. (7.2% of the project area)is under wastelands and can be brought under vegetative cover, with reasonable effort .Activities like Earthen check dams, Vegetative filter strip, V-ditches, staggered trenches ,WHS (Johad) Afforestation of wastelands and Pasture development will be taken up on these lands

**Pasture development** the land use table shows that there is 59 hectare pasture land (8.95%)This emphasizes the need for taking up pasture land development works through sowing of promising species of grasses and plantation

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

| Cropping Status | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S. No | Season | Crop sown | Rain fed | | | | Irrigated | | | | Total | |
| | | | Varieties | Area (ha) | Production (Ton) | Productivity (kg/ha) | Varieties | Area (ha) | Production (Ton) | Productivity (kg/ha) | Area (ha) | Production (Ton) |
| 1 | Kharif | Bajra | HHB 67 | 1686 | 1011 | 600 | - | - | - | - | 1686 | 1011 |
| | | Moong | K851 | 843 | 421 | 500 | - | - | - | - | 843 | 421 |
| 2 | Rabi | Mustered | - | - | - | - | Pusha Bold | 98 | 147 | 1500 | 98 | 147 |
| | | Wheat | - | - | - | - | Raj 3077 | 54 | 135 | 2500 | 54 | 135 |
| 3 | Jaid | - | - | - | - | - | | - | - | - | - | - |

| Table 2.4.b Abstract of cropped Area(ha) | |
|---|---|
| Area under Single crop | 2529 |
| Area under Double crop | 152 |
| Area under Multiple crop | 109 |

****Write for each crop:** The farmers are using WCC 75 ,Raj. 171, varieties of Bajra, whereas varieties like HHB 67 , RCB2 can increase the production.

**Crop Rotation****will vary from project to project

| | | |
|---|---|---|
| Bajra | - | Wheat |
| Bajra | - | Fallow |
| Moong | - | Mustered |
| Moong | - | Fallow |
| Fallow | - | Jeera |
| Fallow | - | Isabgoal |
| Fallow | - | Lucern |
| Cluster Bean | - | Fallow |
| Fallow | - | Tarameera |

| | | |
|---|---|---|
| Til | - | Fallow |
| Caster | - | Caster |
| Moth | - | Fallow |

The table 2.3 shows that only 152 ha is (0.04%) is double cropped area. Also the crop rotation shows that fallow lands are there. This indicates that there is scope for change in crop rotation in fields where there are fallow lands through Soil and Water conservation measures, crop demonstration and diversification in agriculture.

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

**Table 2.4.c Productivity Gap Analysis** (**The table can also be given in bar chart form)**

| Name of the crop | Productivity kg/ha | | | | |
|---|---|---|---|---|---|
| | India | Highest Average in Rajasthan | Highest Average of Agro climatic zone | District | Project Area |
| Wheat | 2708 | 2751 | 2200 | 2200 | 2200 |
| Mustured | 1095 | 1203 | 1250 | 1250 | 1250 |
| Zeera | - | 339 | 500 | 500 | 500 |
| Isab gol | - | 476 | 600 | 600 | 600 |
| Bajra | 886 | 679 | 750 | 750 | 800 |
| Guar | - | 277 | 400 | 400 | 500 |
| Ground nut | 866 | 1310 | 1000 | 1000 | 1000 |
| Moong | - | 312 | 450 | 450 | 500 |
| Caster | - | 997 | 800 | 800 | 850 |

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

The reasons for this variation are

- The farmers are using varieties WCC-75,Raj.171 of Bajra. whereas the recommended varieties like HHB 67, RCB -2 provide 18 qnt. yield (write for all crops)
- Lack of Availability of good quality seeds of desired crop and variety in adequate quantities and time to the farmers.
- Availability of water for cultivation

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

| Table 2.5 Existing area under horticulture/Vegetables/Floriculture (ha) | | | | | |
|---|---|---|---|---|---|
| **Activity** | **Area(Hact.)** | **Species** | **Varieties** | **Recommended varieties** | **Production** |
| Horticulture | 02 | Anwla | Banarasi | Banarasi | 500Kg/hact. |
| | | | | | |
| | | | | | |
| Vegetables | 136 | Onion | Pusa Nasik red | - | 300Qtl/hact |
| | | | | | |
| | | | | | |
| Floriculture | - | - | - | - | - |
| | | | | | |
| | | | | | |
| Medicinal Plants | 195 | isabgol | GI-2 | RI-89 | 400Kg/hact. |

**Table 2.6 Land holding Pattern in project area**

| Type of Farmer | Total House holds | Land holding (ha) irrigation source wise | | | Land holding (ha)Social group wise | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Irrigated (source) | Rain fed | Total | Gen | SC | ST | OBC | BPL |
| (i)Large farmer | 138 | - | 1065.01 | 1065.01 | 559.59 | 57.24 | 61.69 | 386.49 | - |
| (ii) Small farmer | 814 | - | 1115.82 | 1115.82 | 412.41 | 120.57 | 59.39 | 523.38 | - |
| (iii) Marginal farmer | 225 | - | 981.76 | 981.76 | 382.20 | 123.62 | 31.38 | 444.56 | - |
| (iv) Landless person | 309 | - | - | - | - | - | - | - | - |
| (V)No. of BPL households | 1037 | - | - | - | - | - | - | - | - |
| **Total** | - | - | 3162.59 | 3162.59 | 1354.27 | 301.43 | 152.46 | 1354.43 | |

88.27 % land holdings belong to small and marginal farmers who own 75.33 % of total cultivated area. Horticulture/vegetables could be more economical to Small and marginal farmers with irrigation source. For large farmers with no irrigation facility Horticulture/vegetables will be promoted in a part of land with farm pond/Tanka construction. The following activities will be more beneficial for small land holdings and for diversification and income for large farmers

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

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

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

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

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

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

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

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

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

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

| S.No. | Description of animals | Population in No. | Yield(milk/mutton/ Wool) | Equ. cow units | Dry matter requirement per year (7Kg per animal.) | Total requirement in M.T. |
|---|---|---|---|---|---|---|
| 1 | Cows | | | | | |
| | Indigenous | 2325 | 4 ltr. per day | 2325 | 6357960 | 6357.96 |
| | Hybrid | | 6 ltr. per day | | | |
| 2 | Buffaloes | 4813 | 7 ltr. per day | 4813 | 12128760 | 12128.76 |
| 3 | Goat | 7877 | 2 ltr. per day | 3938 | 8507160 | 8507.16 |
| 4 | Sheep | 7342 | ½ kg per no. | 3671 | 7929360 | 7929.36 |
| 5 | Camel | 07 | - | 07 | 25200 | 25.20 |
| 6 | Poultry | 113 | - | 113 | 0 | 0 |
| 7 | Piggery | 0 | - | 0 | **0** | 0 |
| | Total | 22477 | - | 14867 | 34948440 | 34948.44 |

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

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

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

**Table 2.8 Existing area under fodder (ha)**

| S.No | Item | Unit | Area/Quantity |
|---|---|---|---|
| 1 | Existing Cultivable area under Fodder | Ha | 1500/10500 |
| 2 | Production of Green fodder | Tonns/year | 60/1800 |
| 3 | Production of Dry fodder | Tonns/ Year | 4500/22500 |
| 4 | Area under Pastures | Ha | 59/118 |
| 5 | Production of fodder | Tonns/year | 6552/37283 |
| 6 | Existing area under Fuel wood | Ha | - |
| 7 | Supplementary feed | Kgs/ day | 1 kg/965 |
| 8 | Silage Pits | No | - |
| 9 | Availability of fodder | quintals | 37283 |

i.Requirement of fodder= 46268 tonns
ii. Availability of fodder = 37283 tonns.
Deficiency of fodder = 46268-37283 = 8985 tonns.

The table above shows there is fodder deficiency (Requirement is 46268 tonns and 37283 tonns

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

- Increase in area under fodder crops
- Increase in productivity of fodder crops
- Development of pastures

- And reduction in large number of livestock production through replacement by few but productive animals

**Table 2.9 Agriculture implements**

| 1 | 2 | 3 |
|---|---|---|
| **S. No** | **Implements** | **Nos.** |
| 1 | Tractor | 123 |
| 2 | Sprayers-manual/ power | 19 |
| 3 | Cultivators/Harrows | 11 |
| 4 | Seed drill | 78 |
| 5 | Any Other | 00 |

**Farm mechanization and seed banks**: As discussed earlier 67% land holdings belong to small and marginal farmers who own only 11% of total cultivated area so owning of big farm implements by individual farmers is not economical so SHG would be promoted to buy farm implements and rent to farmer

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

| Sr. no. | Name of village | Total No .of job cards | Employment Status | Activity taken up so far |
|---|---|---|---|---|
| 1 | Samtipura | 407 | 34768 | Nadi,Tanka,Greval road,Bunding |
| 2 | Maheshpura | 211 | 17890 | |
| 3 | Sardargadh | 383 | 12345 | |
| 4 | Sakrana | 391 | 18765 | |
| 5 | Bichawadi | 96 | 11324 | |
| 6 | Jalore b | 881 | 124235 | |
| 7 | Godan | 526 | 43215 | |
| 8 | Badanwadi | 386 | 36754 | |
| 9 | Desu | 215 | 23431 | |
| 10 | Uan | 235 | 24563 | |
| 11 | Bhagli purohitan | 125 | 9876 | |

**Table 2.11 Migration Details**

| Name of village | No. of persons migrating | No. of days per year of migration | Major reason(s) for migrating | Distance of destination of migration from the village (km) | Occupation during migration | Income from such occupation (Rs. in lakh) |
|---|---|---|---|---|---|---|
| samtipura | 250 | 325 | Employment & Business | 350-2000 | Employment & Business | 90.00 |
| Sardargadh | 60 | 325 | | | | 59.00 |
| Maheshpura | 65 | 325 | | | | 21.60 |
| Sankarna | 330 | 325 | | | | 118.80 |
| Bichhawadi | 75 | 325 | | | | 27.00 |
| Jalore - B | 240 | 325 | | | | 86.40 |
| Godan | 189 | 325 | | | | 68.04 |
| Badanwadi | 130 | 325 | | | | 46.80 |
| Desu | 127 | 325 | | | | 45.72 |
| Uan | 85 | 325 | | | | 30.60 |
| Bhagli Purohitan | 80 | 325 | | | | 28.80 |

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

The existing livelihoods Village are given below

| **Table 2.12 (a)**Major activities (On Farm) | | |
|---|---|---|
| Name of activity | No of House holds | Average annual income from the |
| cultivators | 2690 | 1054 Lac |
| Dairying | 856 | 31 Lac |
| Poultry | - | - |
| Piggery | - | - |
| Landless Agri. Labourers | 309 | 84 Lac |

| **Table 2.12(b)** Major activities (Off Farm) | | |
|---|---|---|
| Name of activity | Households/individuals | Average annual income from the |
| Artisans | - | - |
| Carpenter | 52 | 28.60 Lac |
| Blacksmith | 38 | 20.52 Lac |
| Leather Craft | - | - |
| Porter | 25 | 9.00 Lac |
| Mason | 115 | 82.80 Lac |
| Others specify (Cycle Repair ,STD,Craft etc) | 13 | 4.55 Lac |

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

**Table 2.13( a ) Status of Existing SHG**

| S.No | Name of SHG | Members | Activity involved | Monthly income | Fund avai. | Assistance available | Source of assistance | Training received |
|---|---|---|---|---|---|---|---|---|
| 1 | Ramdev SHG Sardagadh | 10 | Saving | 200 | - | - | - | - |
| 2 | Mahadev SHG Samtipura | 10 | Saving | 200 | - | - | - | - |
| 3 | Khetalagi SHG Sakarana | 10 | Saving | 200 | - | - | - | - |
| 4 | Maa Chamunda SHG Godan | 10 | Saving | 200 | - | - | - | - |
| 5 | Gotam Richi SHG Badanwadi | 10 | Saving | 200 | - | - | - | - |

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

II. **Technical Features**

**Table 2.14 Ground Water**

| S.No | Source | No. | Functional depth(meter) | Dry | Area irrigated | Water availability (days) |
|---|---|---|---|---|---|---|
| i) | Dug wells | 85 | 68 | 55 | 60 hac | 65 - 70 days |
| ii) | Shallow tube wells | 52 | 84 | 30 | 55 hac | 110 -150 |
| iii) | Pumping sets | 05 | 80 | 02 | 8 hac | 30 days |
| iv) | Deep Tube Wells | 90 | 115 | 67 | 46 hac | 75-80 days |
| | Total | 232 | - | - | - | - |

**Table 2.15 Availability of drinking water**

| S. No | Name of the village | Drinking water requirement Ltrs/day | Present availability of drinking water Ltrs/day | No. of drinking water sources available | No. functional | No. requires repairs | No. defu |
|---|---|---|---|---|---|---|---|
| 1 | Samtipura | 64490 | 47000 | 2 | 2 | - | - |
| 2 | Maheshpura | 18920 | 13640 | 1 | 1 | - | - |
| 3 | Sardargadh | 29680 | 19680 | 2 | 2 | - | - |
| 4 | Sakrana | 55410 | 43740 | 2 | 2 | - | - |
| 5 | Bichawadi | 4920 | 3580 | 1 | 1 | - | - |
| 6 | Jalore b | 91040 | 84920 | 2 | 2 | - | - |
| 7 | Godan | 56130 | 49250 | 3 | 3 | - | - |
| 8 | Badanwadi | 42450 | 39550 | 2 | 2 | - | - |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 9 | Desu | 32640 | 27980 | 2 | 2 | - | | - |
| 10 | Uan | 35710 | 28750 | 2 | 2 | - | | - |
| 11 | Bhagli purohitan | 29630 | 23860 | 1 | 1 | - | | - |

**Table 2.16 Water Use efficiency**

| Name of major crop | Area (Hectare) | | | |
|---|---|---|---|---|
| | through water saving devices(Drip/Sprinklers) | through water conserving agronomic practices# | Any other (pl. specify) | Total |
| Mustard | 20% | 20% | - | - |
| wheat | 20% | 20% | - | - |

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

**Table 2.17 Slope details.**

| **Slope of Watershed** | | |
|---|---|---|
| S.No. | Slope percentage | Area in hectares |
| 1 | 0 to 3% | 4198 |
| 2 | 3 to 8% | - |
| 3 | 8 to 25% | - |
| 4 | > 25% | - |

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

**Table 2.18 Water Budgeting**

**Water Budgeting:**

To propose the total number of water harvesting structure, it is necessary to do water budgeting of 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 are, the various water harvesting structure have been constructed . The surface runoff has been stored in the structures. In the area about 38 structures have been constructed. After onset of monsoon i.e. in the end of the September month. All the main structures constructed in the area were visited. While visiting the area it was observed that about 38 structures were having water up to 20 % of their capacity.

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

Average catchments: Cultivated land, forest land with vegetation
For estimation/ water budgeting the proposed water shed area has been divided as follows:
Good Catchment: -
Average Catchment: 4198Hac.
Bad Catchment: -
Average annual Rainfall for the block is 387.50 mm
By interpolation method the proportion of estimated runoff of 387.50 mm rainfall have been calculated form Strange's Table as follows:

**Table No. 2.18 Total available water**

| Micro no | Area ha. | Type of catchment | Utilisable rain water/ ha (Cu.m.) | Utilisable rain water from micro w/s (Cu.m.) |
|---|---|---|---|---|
| 2/1 | 220 | Average | 387.5 | 67650 |
| 1/4 | 1877 | Average | 387.5 | 577177.5 |
| 1/5 | 497 | Average | 387.5 | 152827.5 |
| 2/3 | 1604 | Average | 387.5 | 493230 |
| | | | Total | 1290885 |

**Table No. 2.18(a) Water tapped in existing structure**

| S.No. | Name | No. | Storage Capacity |
|---|---|---|---|
| i) | Major Irrigation Project | 0 | |
| ii) | Medium Irrigation Project | 1 | 0 |
| iii) | Form Ponds/Tanks | 23 | 316000 |
| iv) | Anicuts | 2 | 53000 |
| | Total | | 369000 |

**Table No. 2.18 (b) Balance available water**

| Total available water | Net tapped water | Balance | Available for Harvesting 75% |
|---|---|---|---|
| 1290885 | 369000 | 921885 | 691413.5 |

The water budgeting indicates potential for water harvesting in the area. LDSC, Masonry check dam, contour bunding, Dug out pond, Nallah bunding and WHS in arable land (Tanka) etc. activities could be done.

**Table No. 2.18 (c) Structure proposed for water harvesting**

| Activity | No. | Storage capacity per No. (Cu.m.) | Total water to be harvested (Cu.m.) |
|---|---|---|---|
| Tanka | 169 | 25 | 4225 |
| Anicut | 6 | 5500 | 33000 |

| | | | |
|---|---|---|---|
| LSCD | 202 | 200 | 40400 |
| Bunding | 1061 | 300 | 318300 |
| Dug out pond | 59 | 500 | 29500 |
| Nalla bund | 67 | 20 | 1340 |
| PD | 40 | 1770 | 70800 |
| | | Total | 497565 |

**Table 2.19 Soil details**

| | Soil Profile | |
|---|---|---|
| S.No. | Major Soil Classes | Area in hectares |
| 1 | II class | 6230 |
| 2 | III class | 1178 |
| 3 | Iv class | 531 |
| | Soil Depth : | |
| B | Depth (Cms.) | Area in hectares |
| 1 | 0.00 to 7.50 | - |
| 2 | 7.50 to 45.00 | 5210 |
| 3 | > 45.00 | 2298 |

| C | Soil fertility Status | Kg/ha | Recommended |
|---|---|---|---|
| | N | 50-70 | 80-90 |
| | P | 20-30 | 40-50 |
| | K | 10-15 | 20-30 |
| | Micronutrients | 10-500 ppm | 100-500 |
| | | | |

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

**Table 2.20 Erosion details**

| Erosion status in project Area | | | | |
|---|---|---|---|---|
| Cause | Type of erosion | Area affected (ha) | Run off(mm/ year) | Average soil loss (Tonnes/ ha/ year) |
| Water erosion | | | | |
| a | Sheet | 3252 | 300 | 15-20 |
| b | Rill | 759 | 300 | |
| c | Gully | 187 | 300 | |
| Sub-Total | | 4198 | NA | |
| Wind erosion | | - | | |
| **Total for project** | | 4198 | | |

The need is:

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

# CHAPTER – III

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

**A) Preparatory phase activities Capacity Building Trainings and EPA**

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

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

| S.no | Name of the Gram Panchayat | Date on which Grama Sabha approved EPA |
|---|---|---|
| 1 | Samtipura | 11-06-2010 |
| 2 | Sankarna | 09-06-2010 |
| 3 | Leta | 19-06-2010 |
| 4 | Godan | 10-06-2010 |
| 5 | Badanwadi | 08-06-2010 |
| 6 | Desu | 07-06-2010 |
| 7 | Uan | 29-04-2010 |

| 1 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|
| S. No. | Names of village | Amount earmarked for EPA | Entry Point Activities planned | Estimated cost | Expenditure incurred | Balance | Expected outcome | Actual outcome |
| 1 | Samtipura | 6.078 | | | - | 6.078 | | |
| 2 | Maheshpura | | | | - | | | |
| 3 | sardargadh | | | | - | | | |
| 4 | sankarna | 5.778 | | | - | 5.778 | | |
| 5 | Bichhawadi | 4.446 | | | - | 4.446 | | |
| 6 | Jalore-B | 3.762 | | | - | 3.762 | | |
| 7 | Godan | 2.934 | | | - | 2934 | | |
| 8 | Badanwadi | | | | - | | | |
| 9 | Desu | 0.672 | | | - | 0.672 | | |
| 10 | Uan | 1.518 | | | - | 1.518 | | |
| 11 | Bhagli purohitan | | | | - | | | |

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

| S.no | Name of the village/Habitation | Date on which PRA conducted |
|---|---|---|
| 1 | Samtipura | 11-06-2010 |
| 2 | Sankarna | 09-06-2010 |
| 3 | Leta | 19-06-2010 |
| 4 | Godan | 10-06-2010 |
| 5 | Badanwadi | 08-06-2010 |
| 6 | Desu | 07-06-2010 |
| 7 | Uan | 29-04-2010 |

Transact walk were carried out involving the community for Social mapping, Resource mapping. Detailed discussions and deliberations with all the primary stakeholders were carried out.

Socio-economic survey was carried out during **26-3-2011** (dates) period covering all the households and primary data on demography, Land holdings, Employment status, Community activities etc. was collected as mentioned in chapter 2.

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

Various thematic layers provided by SRSAC are :

- Delineation of Macro/Micro watershed boundaries.
- Digitised Khasara maps of the villages falling in project area.
- Network of Drainage lines, existing water bodies, falling in the project area.
- Base maps (transport network, village/boundaries, and settlements).
- Land Use / Land cover map.
- Contours at 1 meter interval, slope map

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

.

# CHAPTER – VI EXPECTED OUT COMES

| 1 | 2 | | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| **S. No.** | **Item** | | **Unit of measurement** | **Pre-project Status** | **Expected Post-project Status** | **Remarks** |
| 1 | Status of water table (Depth to Ground water level) | | Meters | 110-115 | 108-113 | |
| 2 | Ground water structures repaired/ rejuvenated | | No. | - | - | |
| 3 | Quality of drinking water | | Description | salty | Clean water | |
| 4 | Availability of drinking water | | Description | 6 month | 12 month | |
| 5 | Change in irrigated Area | | Ha | - | - | |
| 6 | Change in cropping/ land use pattern | | Description | - | - | |
| 7 | Area under agricultural crop | | Ha | - | | |
| | I | Area under single crop | Ha | 3120 | 3200 | |
| | Ii | Area under double crop | Ha | 597 | 950 | |
| | Iii | Area under multiple crop | Ha | 3132 | 3550 | |
| 8 | Change in cultivated Area | | Ha | 6252 | 6800 | |
| 9.yield of major crops of area | Yield of Bajra | | q/ha | 8 | 12 | |
| | Yield of Wheat | | q/ha | 22 | 26 | |
| | Yield of Gram | | q/ha | - | - | |
| | Yield of Mustard | | q/ha | 12.5 | 15 | |
| 10 production of major crops of area | Production of Bajra | | ton | 1840 | 2250 | |
| | Production of Wheat | | ton | 110 | 130 | |
| | Production of Gram | | ton | - | - | |
| | Production of Mustard | | ton | 500 | 600 | |
| 11 | Area under vegetation | | Ha | 59 | 90 | |
| 12 | Area under horticulture | | Ha | - | 12 | |
| 13 | Area under fuel | | Ha | 25 | 50 | |
| 14 | Area under Fodder | | Ha | 90 | 130 | |
| 15 | Fodder production | | Q | 372830 | 475000 | |
| 16 | Milk production | | Litres/day | 1630 | 3000 | |
| 17 | SHGs Active | | No. | - | 30 | |
| 18 | No. of livelihoods | | No. | 30969 | 40000 | |
| 19 | Income | | Rs.in la | 0.16 | 0.20 | |
| 20 | Migration | | No. | 1885 | 200 | |
| 21 | SHG Federations formed | | No. | - | 1 | |

**Critical Assumption**

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

**Means of Verification** of **indicators**

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

# CHAPTER VII TECHNICAL DESIGNS AND ESTIMATES

Technical designs and estimates for proposed activities.

For Estimates GKN of the districts should be used. For Production System activities, rates of Agriculture/Horticulture/Animal Husbandry should be used.

# CHAPTER - VIII Enclosures -

h. Location –District, block, village, watershed location map

i. Map of Jalore IV IWMP Project (Watershed Boundary demarcation in cadastral & Topo Sheet)

j. PRA Map (along with photos & paper drawing)

k. Treatment map (Indicate proposed works)

l. Cadastral Map on watershed boundary

m. Information on Soils, Soil fertility, Land capability, Soil chemical problems like salinity, alkalinity

n. Land Use Land Cover map

o. Information on existing water harvesting structures & well inventory along with GPS co-ordinates.

p. High resolution, latest Remote Sensing Satellite data

**Documents of Agreements:**

Proceedings of gram sabha for EPA approval

Proceedings of gram sabha Resolution for committee constitution

Proceedings of gram sabha for DPR approval

DPR approval by district

Watershed Committee Registration certificate

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

## PRPOSED DEVELOPMENT PLAN

| | | | |
|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000/- Hac. |
| **District: JALORE** | JALORE | **Geographical Area** | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 4198 |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | 0 |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 3313 |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | 0 |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 479 |
| | | **2. Govt. / waste /OTHER LAND** | 406 |
| | | **TOTAL COST** | 629.70 |

| S. N. | ACTIVITY | Unit | Unit Cost | Samtipura | | | | | Sankarna | | | | | Leta | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Qantity | Total Cost | Cost from Project Fund | Convergense Fund | Beneficiery contribution | Qantity | Total Cost | Cost from Project Fund | Convergense Fund | Beneficiery contribution | Qantity | Total Cost | Cost from Project Fund | Convergense Fund | Beneficiery contribution | Qantity | Total Cost |
| **AI.** | **ADMINISTRATIVE COST** | | **10%** | **-** | 15.195 | **15.195** | - | - | - | 14.445 | 14.445 | - | - | - | 9.405 | 9.405 | - | - | - | 7.335 |
| **II** | **MONITORING** | | **1%** | **-** | 1.520 | **1.520** | - | - | - | 1.445 | 1.445 | - | - | - | 0.941 | 0.941 | - | - | - | 0.734 |
| **III** | **EVALUATION** | | **1%** | **-** | 1.520 | **1.520** | - | - | - | 1.445 | 1.445 | - | - | - | 0.941 | 0.941 | - | - | - | 0.734 |
| | **TOTAL** | | **12%** | **-** | **18.234** | **18.234** | **-** | **-** | **-** | **17.334** | **17.334** | **-** | **-** | **-** | **11.286** | **11.286** | **-** | **-** | **-** | **8.802** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | | **4%** | | 6.078 | 6.078 | 0.000 | - | - | 5.778 | 5.778 | - | - | - | 3.762 | 3.762 | - | - | - | 2.934 |
| **II** | **Instituion & CAPACITY BUILDING** | | **5%** | | 7.598 | 7.598 | 0.000 | | 0.000 | 7.223 | 7.223 | - | - | - | 4.703 | 4.703 | - | - | - | 3.668 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | | **1%** | | 1.520 | 1.520 | 0.000 | | 0.000 | 1.445 | 1.445 | - | - | - | 0.941 | 0.941 | - | - | - | 0.734 |
| | **TOTAL** | | 10% | | **15.195** | **15.195** | **0.000** | | **0.000** | **14.445** | **14.445** | | **-** | **-** | **9.405** | **9.405** | - | - | - | **7.335** |
| | **W/S WORK PHASE** | | | | | | | | | | | | | | | | | | | |
| **VII** | **NRM** | | **60%** | **91.170** | | | - | - | | | - | | - | | - | | | | | |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | | | | | | |
| (i) | Earthen Bund | Hac | 11280 | 300 | 33.840 | 33.840 | 9.024 | 2.370 | 288 | 32.486 | 32.486 | 9.024 | 2.275 | 135 | 15.228 | 15.228 | 1.066 | 1.066 | 108 | 12.182 |
| (ii) | WHS (Tanka) | No. | 82000 | 46 | 37.720 | 37.720 | 16.400 | 2.642 | 20 | 16.400 | 16.400 | 16.400 | 1.148 | 25 | 20.500 | 20.500 | 1.436 | 1.436 | 20 | 16.400 |
| (iii) | Waste weir | No. | 10600 | 20 | 2.800 | 2.800 | 0.000 | 0.196 | 12 | 1.680 | 1.680 | 0.000 | 0.118 | 4 | 0.560 | 0.560 | 0.039 | 0.039 | 5 | 0.700 |
| (iv) | Gulley Control Structure Nallah Bunding | No. | 50000 | 6 | 0.636 | 0.636 | 4.000 | 0.045 | 10 | 1.060 | 1.060 | 4.000 | 0.074 | 8 | 0.848 | 0.848 | 0.059 | 0.059 | 5 | 0.530 |
| (v) | Farm Pond | No. | 14000 | 2 | 1.000 | 1.000 | 1.400 | 0.070 | 8 | 4.000 | 4.000 | 1.400 | 0.280 | 8 | 4.000 | 4.000 | 0.280 | 0.280 | 2 | 1.000 |
| | **TOTAL** | | | | **75.996** | **75.996** | **30.824** | **5.322** | | **55.626** | **55.626** | **30.824** | **3.896** | | **41.136** | **41.136** | **2.881** | **2.881** | | **30.812** |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | | | | | | |
| (i) | V Ditch for PD | | 13760 | 10 | 1.376 | 1.376 | 0.000 | 0.096 | 10 | 1.376 | 1.38 | 0.000 | 0.096 | 10 | 1.376 | 1.376 | 0.096 | 0.096 | 10 | 1.376 |
| (ii) | Staggered Contour Trenches for PD | | 11790 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.00 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 |
| (iii) | Dug out Pond | | 50000 | 4 | 2.000 | 2.000 | 1.500 | 0.140 | 5 | 2.500 | 2.50 | 1.500 | 0.175 | 4 | 2.000 | 2.000 | 0.140 | 0.140 | 4 | 2.000 |
| (iv) | WHS (Tanka) | | 82000 | 2 | 1.640 | 1.640 | 2.460 | 0.115 | 8 | 6.560 | 6.56 | 2.460 | 0.459 | 8 | 6.560 | 6.560 | 0.459 | 0.459 | 2 | 1.640 |
| (v) | Nallah Bunding with ww | | 24600 | 5 | 1.230 | 1.230 | 1.968 | 0.086 | 40 | 9.840 | 9.84 | 1.968 | 0.689 | 8 | 1.968 | 1.968 | 0.138 | 0.138 | 4 | 0.984 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | | | | | | | | | | | | 0 | 0.000 |
| (i) | LSCD 'A' | | 18700 | 2 | 0.374 | 0.374 | 0.000 | 0.026 | 8 | 1.496 | 1.50 | 0.000 | 0.105 | 4 | 0.748 | 0.748 | 0.052 | 0.052 | 4 | 0.748 |
| (ii) | LSCD 'B' | | 17200 | 3 | 0.516 | 0.516 | 0.000 | 0.036 | 8 | 1.376 | 1.38 | 0.000 | 0.096 | 4 | 0.688 | 0.688 | 0.048 | 0.048 | 4 | 0.688 |
| (iii) | LSCD 'C' | | 15800 | 4 | 0.632 | 0.632 | 0.000 | 0.044 | 8 | 1.264 | 1.26 | 0.000 | 0.089 | 4 | 0.632 | 0.632 | 0.044 | 0.044 | 4 | 0.632 |
| (iv) | LSCD 'D' | | 14400 | 8 | 1.152 | 1.152 | 0.000 | 0.081 | 8 | 1.152 | 1.15 | 0.000 | 0.081 | 4 | 0.576 | 0.576 | 0.040 | 0.040 | 4 | 0.576 |

| S. N. | ACTIVITY | Unit | Unit Cost | Samtipura | | | | | Sankarna | | | | | Leta | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Qantity | Total Cost | Cost from Project Fund | Convergense Fund | Beneficiery contribution | Qantity | Total Cost | Cost from Project Fund | Convergense Fund | Beneficiery contribution | Qantity | Total Cost | Cost from Project Fund | Convergense Fund | Beneficiery contribution | Qantity | Total Cost |
| (v) | LSCD 'E' | | 13000 | 10 | 1.300 | 1.300 | 0.000 | 0.091 | 8 | 1.040 | 1.04 | 0.000 | 0.073 | 4 | 0.520 | 0.520 | 0.036 | 0.036 | 4 | 0.520 |
| (vi) | Masonry Check Dam | | | 1 | 4.954 | 4.954 | 0.000 | 0.347 | 1 | 4.440 | 4.44 | | 0.311 | 0 | 0.226 | 0.226 | 0.016 | 0.016 | 1 | 4.034 |
| **TOTAL** | | | | | **91.170** | **91.170** | **67.576** | **6.385** | | **86.670** | **86.670** | **67.576** | **6.069** | | **56.430** | **56.430** | **6.833** | **3.952** | | **44.010** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | | | | | | | | | | | | | | | | | | |
| | **For Arable Land** | | | **15%** | **22.793** | | | | | | | | | | | | | | | |
| 1 | Arable bund | | 320 | 300 | 0.960 | 0.960 | 0.000 | 0.282 | 288 | 0.922 | 0.922 | 0.000 | 0.270 | 135 | 0.432 | 0.432 | 0.127 | 0.127 | 108 | 0.346 |
| 2 | Agro Forestry | | 73 | 1159 | 0.846 | 0.846 | 0.000 | 0.248 | 625 | 0.456 | 0.456 | 0.000 | 0.134 | 20 | 0.015 | 0.015 | 0.004 | 0.004 | 250 | 0.183 |
| 3 | Horticulture Plantation with fencing & Tanka | | 29400 | 46 | 13.524 | 13.524 | 5.880 | 3.968 | 20 | 5.880 | 5.880 | 5.880 | 1.725 | 25 | 7.350 | 7.350 | 2.156 | 2.156 | 20 | 5.880 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 10000 | 3 | 0.300 | 0.300 | 0.300 | 0.088 | 3 | 0.300 | 0.300 | 0.300 | 0.088 | 2 | 0.200 | 0.200 | 0.059 | 0.059 | 5 | 0.500 |
| 5 | Vermi Compost | | 36000 | 2 | 0.720 | 0.720 | 0.000 | 0.211 | 5 | 1.800 | 1.800 | 0.000 | 0.528 | 1 | 0.360 | 0.360 | 0.106 | 0.106 | 0 | 0.000 |
| 6 | Crop Demonstration | | 2000 | 40 | 0.800 | 0.800 | 0.000 | 0.235 | 40 | 0.800 | 0.800 | 0.000 | 0.235 | 5 | 0.100 | 0.100 | 0.029 | 0.029 | 5 | 0.100 |
| 7 | Homested Kitchen Gerden | | 1000 | 40 | 0.400 | 0.400 | 0.000 | 0.117 | 40 | 0.400 | 0.400 | 0.000 | 0.117 | 3 | 0.030 | 0.030 | 0.009 | 0.009 | 5 | 0.050 |
| 8 | Medicinal Plants | | 3000 | 20 | 0.600 | 0.600 | 0.000 | 0.176 | 20 | 0.600 | 0.600 | 0.000 | 0.176 | 4 | 0.120 | 0.120 | 0.035 | 0.035 | 5 | 0.150 |
| | **For Non-arable Land** | | | | | | | | | | | | | | | | | | | |
| 1 | V Ditch for PD | | 2200 | 10 | 0.220 | 0.220 | 0.000 | 0.065 | 10 | 0.220 | 0.220 | | 0.065 | 10 | 0.220 | 0.220 | 0.000 | 0.065 | 10 | 0.220 |
| 2 | Staggered Contour Trenches for PD | | 900 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0.00 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 |
| 4 | Fencing of PD (by DCB) | | 0.00 | 10 | 2.517 | 2.517 | 0.000 | 0.738 | 10 | 2.517 | 2.517 | 0.000 | 0.738 | 10 | 2.517 | 2.517 | 0.000 | 0.738 | 10 | 2.517 |
| 1 | **TOOLKIT, TRAINING & REVOLVING FUND OF SHG** | | | | | | | | | | | | 0.000 | | | | | | | |
| (i) | KARIGER | | 26250 | 1 | 0.263 | 0.263 | 0.000 | 0.000 | 2 | 0.525 | 0.525 | 0.000 | 0.000 | 2 | 0.525 | 0.525 | 0.000 | 0.000 | 1 | 0.263 |
| (ii) | WHITEWASH & PENT | | 40500 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 2 | 0.810 | 0.810 | 0.000 | 0.000 | 2 | 0.810 | 0.810 | 0.000 | 0.000 | 0 | 0.000 |
| (iii) | TAILORING | | 67000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 2 | 1.340 | 1.340 | 0.000 | 0.000 | 1 | 0.670 | 0.670 | 0.000 | 0.000 | 0 | 0.000 |
| (iv) | MASALA UDYOG | | 42200 | 1 | 0.422 | 0.422 | 0.000 | 0.000 | 2 | 0.844 | 0.844 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 |
| (v) | BICYCLE/MOBILE | | 34000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 2 | 0.680 | 0.680 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 |
| (vi) | KUMAHRI UDYOG | | 22000 | 1 | 0.220 | 0.220 | 0.000 | 0.000 | 2 | 0.440 | 0.440 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 |
| (vii) | ARI TARI UDYOG | | 50000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 2 | 1.000 | 1.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 |
| 2 | **LIVESTOCK MANAGEMENT** | | | | | | | | | | | | | | | | | | | |
| (i.) | Animal Health Camp | | 20000 | 3 | 0.600 | 0.600 | 0.000 | 0.176 | 3.000 | 0.600 | 0.600 | 0.000 | 0.176 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 |
| (ii) | Vaccination | | 0.00 | 0 | 0.200 | 0.200 | 0.000 | 0.059 | 0.000 | 0.500 | 0.500 | 0.000 | 0.147 | 0 | 0.500 | 0.500 | 0.000 | 0.147 | 0 | 0.500 |
| (iii) | Purchase of Bull / Pada | | 20000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 4.000 | 1.000 | 1.000 | 0.000 | 0.293 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 |
| (iv) | A I | | 0.00 | 0 | 0.201 | 0.201 | 0.000 | 0.059 | 0.000 | 0.034 | 0.034 | 0.000 | 0.010 | 0 | 0.259 | 0.259 | 0.000 | 0.076 | 0 | 0.295 |
| **TOTAL** | | | | | **22.793** | **22.793** | **6.180** | **6.422** | | **21.668** | **21.668** | **6.180** | **4.703** | | **14.108** | **14.108** | **2.525** | **3.551** | | **11.003** |
| **IX** | **CONSOLIDATION PHASE** | | | **3%** | **4.559** | **4.559** | **0.000** | **0.000** | | **4.334** | **4.33** | **0.000** | **0.000** | | **2.822** | **2.822** | **0.000** | **0.000** | | **2.201** |
| | **GRAND TOTAL** | | | | **151.950** | **151.950** | **73.756** | **12.806** | | **144.450** | **144.450** | **73.756** | **10.772** | | **94.050** | **94.050** | **9.358** | **7.502** | | **73.350** |

| Godan | | | Badanwadi | | | | | Oun | | | | | Desu | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Cost from Project Fund** | **Convergense Fund** | **Beneficiery contribution** | **Qantity** | **Total Cost** | **Cost from Project Fund** | **Convergense Fund** | **Beneficiery contribution** | **Qantity** | **Total Cost** | **Cost from Project Fund** | **Convergense Fund** | **Beneficiery contribution** | **Qantity** | **Total Cost** | **Cost from Project Fund** | **Convergense Fund** | **Beneficiery contribution** |
| | | | | | | | | | | | | | | | | | |
| 7.335 | - | - | - | 11.115 | 11.115 | - | - | - | 3.795 | 3.795 | - | - | - | 1.680 | 1.680 | | |
| 0.734 | - | - | - | 1.112 | 1.112 | - | - | - | 0.380 | 0.380 | - | - | - | 0.168 | 0.168 | | |
| 0.734 | - | - | - | 1.112 | 1.112 | - | - | - | 0.380 | 0.380 | - | - | - | 0.168 | 0.168 | | |
| **8.802** | **-** | **-** | **-** | **13.338** | **13.338** | **-** | **-** | **-** | **4.554** | **4.554** | **-** | **-** | **-** | **2.016** | **2.016** | | |
| 2.934 | - | - | - | 4.446 | 4.446 | - | - | - | 1.518 | 1.518 | - | - | - | 0.672 | 0.672 | | |
| 3.668 | - | - | - | 5.558 | 5.558 | - | - | - | 1.898 | 1.898 | - | - | - | 0.840 | 0.840 | | |
| 0.734 | - | - | - | 1.112 | 1.112 | - | - | - | 0.380 | 0.380 | - | - | - | 0.168 | 0.168 | | |
| **7.335** | - | - | - | **11.115** | **11.115** | - | - | - | **3.795** | **3.795** | - | - | - | **1.680** | **1.680** | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 12.182 | 1.066 | 0.853 | 159 | 17.935 | 17.935 | 1.066 | 1.256 | 46 | 5.189 | 5.189 | 6.768 | 0.363 | 25 | 2.820 | 2.820 | 4.512 | 0.197 |
| 16.400 | 1.436 | 1.148 | 27 | 22.140 | 22.140 | 1.436 | 1.550 | 5 | 4.100 | 4.100 | 12.300 | 0.287 | 2 | 1.640 | 1.640 | 8.200 | 0.115 |
| 0.700 | 0.039 | 0.049 | 5 | 0.700 | 0.700 | 0.039 | 0.049 | 5 | 0.700 | 0.700 | 1.400 | 0.049 | 5 | 0.700 | 0.700 | 1.400 | 0.049 |
| 0.530 | 0.059 | 0.037 | 5 | 0.530 | 0.530 | 0.059 | 0.037 | 5 | 0.530 | 0.530 | 0.000 | 0.037 | 2 | 0.212 | 0.212 | 0.000 | 0.015 |
| 1.000 | 0.280 | 0.070 | 8 | 4.000 | 4.000 | 0.280 | 0.280 | 2 | 1.000 | 1.000 | 4.000 | 0.070 | 1 | 0.500 | 0.500 | 4.000 | 0.035 |
| **30.812** | **2.881** | **2.158** | | **45.305** | **45.305** | **2.881** | **3.173** | | **11.519** | **11.519** | **24.468** | **0.807** | | **5.872** | **5.872** | **18.112** | **0.411** |
| | | | | | | | | | | | | | | | | | |
| 1.376 | 0.096 | 0.096 | 0 | 0.000 | 0.000 | 0.096 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2.000 | 0.140 | 0.140 | 5 | 2.500 | 2.500 | 0.140 | 0.175 | 5 | 2.500 | 2.500 | 1.500 | 0.175 | 1 | 0.500 | 0.500 | 1.500 | 0.035 |
| 1.640 | 0.459 | 0.115 | 2 | 1.640 | 1.640 | 0.459 | 0.115 | 2 | 1.640 | 1.640 | 2.460 | 0.115 | 0 | 0.000 | 0.000 | 2.460 | 0.000 |
| 0.984 | 0.138 | 0.069 | 5 | 1.230 | 1.230 | 0.138 | 0.086 | 5 | 1.230 | 1.230 | 1.968 | 0.086 | 0 | 0.000 | 0.000 | 1.968 | 0.000 |
| | | | | | | | | | | | | | | | | | |
| 0.748 | 0.052 | 0.052 | 15 | 2.805 | 2.805 | 0.052 | 0.196 | 2 | 0.374 | 0.374 | 0.000 | 0.026 | 2 | 0.374 | 0.374 | 0.000 | 0.026 |
| 0.688 | 0.048 | 0.048 | 15 | 2.580 | 2.580 | 0.048 | 0.181 | 2 | 0.344 | 0.344 | 0.000 | 0.024 | 2 | 0.344 | 0.344 | 0.000 | 0.024 |
| 0.632 | 0.044 | 0.044 | 15 | 2.370 | 2.370 | 0.044 | 0.166 | 2 | 0.316 | 0.316 | 0.000 | 0.022 | 2 | 0.316 | 0.316 | 0.000 | 0.022 |
| 0.576 | 0.040 | 0.040 | 15 | 2.160 | 2.160 | 0.040 | 0.151 | 2 | 0.288 | 0.288 | 0.000 | 0.020 | 2 | 0.288 | 0.288 | 0.000 | 0.020 |

| Godan | | | Badanwadi | | | | | Oun | | | | | Desu | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cost from Project Fund | Convergense Fund | Beneficiery contribution | Qantity | Total Cost | Cost from Project Fund | Convergense Fund | Beneficiery contribution | Qantity | Total Cost | Cost from Project Fund | Convergense Fund | Beneficiery contribution | Qantity | Total Cost | Cost from Project Fund | Convergense Fund | Beneficiery contribution |
| 0.520 | 0.036 | 0.036 | 15 | 1.950 | 1.950 | 0.036 | 0.137 | 2 | 0.260 | 0.260 | 0.000 | 0.018 | 2 | 0.260 | 0.260 | 0.000 | 0.018 |
| 4.034 | 0.016 | 0.282 | 1 | 4.150 | 4.150 | 0.016 | 0.291 | 1 | 4.299 | 4.299 | 0.000 | 0.301 | 1 | 2.126 | 2.126 | 0.000 | 0.149 |
| **44.010** | **6.833** | **3.082** | | **66.690** | **66.690** | **6.833** | **4.670** | | **22.770** | **22.770** | **54.864** | **1.595** | | **10.080** | **10.080** | **42.152** | **0.706** |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 0.346 | 0.127 | 0.101 | 159 | 0.509 | 0.509 | 0.127 | 0.149 | 46 | 0.147 | 0.147 | 0.127 | 0.043 | 25 | 0.080 | 0.080 | 0.127 | 0.023 |
| 0.183 | 0.004 | 0.054 | 1500 | 1.095 | 1.095 | 0.004 | 0.321 | 250 | 0.183 | 0.183 | 0.004 | 0.054 | 550 | 0.402 | 0.402 | 0.004 | 0.118 |
| 5.880 | 2.156 | 1.725 | 27 | 7.938 | 7.938 | 2.156 | 2.329 | 5 | 1.470 | 1.470 | 2.156 | 0.431 | 2 | 0.588 | 0.588 | 2.156 | 0.173 |
| 0.500 | 0.059 | 0.147 | 4 | 0.400 | 0.400 | 0.059 | 0.117 | 2 | 0.200 | 0.200 | 0.059 | 0.059 | 0 | 0.000 | 0.000 | 0.059 | 0.000 |
| 0.000 | 0.106 | 0.000 | 1 | 0.360 | 0.360 | 0.106 | 0.106 | 0 | 0.000 | 0.000 | 0.106 | 0.000 | 0 | 0.000 | 0.000 | 0.106 | 0.000 |
| 0.100 | 0.029 | 0.029 | 2 | 0.040 | 0.040 | 0.029 | 0.012 | 5 | 0.100 | 0.100 | 0.029 | 0.029 | 0 | 0.000 | 0.000 | 0.029 | 0.000 |
| 0.050 | 0.009 | 0.015 | 2 | 0.020 | 0.020 | 0.009 | 0.006 | 5 | 0.050 | 0.050 | 0.009 | 0.015 | 0 | 0.000 | 0.000 | 0.009 | 0.000 |
| 0.150 | 0.035 | 0.044 | 2 | 0.060 | 0.060 | 0.035 | 0.018 | 2 | 0.060 | 0.060 | 0.035 | 0.018 | 0 | 0.000 | 0.000 | 0.035 | 0.000 |
| | | | | | | | | | | | | | | | | | |
| 0.220 | 0.000 | 0.065 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2.517 | 0.000 | 0.738 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 2.517 | 2.517 | 0.000 | 0.738 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | | | | | | | | | | | | | | | | | |
| 0.263 | 0.000 | 0.000 | 4 | 1.050 | 1.050 | 0.000 | 0.000 | 1 | 0.263 | 0.263 | 0.000 | 0.000 | 2 | 0.525 | 0.525 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 | 1 | 0.405 | 0.405 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 | 1 | 0.422 | 0.422 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 | 1 | 0.340 | 0.340 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 | 1 | 0.500 | 0.500 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| | | | | | | | | | | | | | | | | | |
| 0.000 | 0.000 | 0.000 | 10 | 2.000 | 2.000 | 0.000 | 0.587 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 1 | 0.200 | 0.200 | 0.000 | 0.059 |
| 0.500 | 0.000 | 0.147 | 0 | 0.500 | 0.500 | 0.000 | 0.147 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.500 | 0.500 | 0.000 | 0.147 |
| 0.000 | 0.000 | 0.000 | 1 | 0.250 | 0.250 | 0.000 | 0.073 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| 0.295 | 0.000 | 0.087 | 0 | 0.784 | 0.784 | 0.000 | 0.230 | 0 | 0.703 | 0.703 | 0.000 | 0.206 | 0 | 0.225 | 0.225 | 0.000 | 0.066 |
| **11.003** | **2.346** | **3.151** | | **16.673** | **16.673** | **2.346** | **4.094** | | **5.692** | **5.692** | **2.346** | **1.593** | | **2.520** | **2.520** | **2.346** | **0.585** |
| **2.201** | **0.000** | **0.000** | | **3.335** | **3.335** | **0.000** | **0.000** | | **1.139** | **1.139** | **0.000** | **0.000** | | **0.504** | **0.504** | **0.000** | **0.000** |
| **73.350** | **9.179** | **6.233** | | **111.150** | **111.150** | **9.179** | **8.765** | | **37.950** | **37.950** | **57.210** | **3.188** | | **16.800** | **16.800** | **44.498** | **1.291** |

# CHAPTER IV
## ACTIVITY WISE TOTAL ABSTRACT OF COST

| | | | | |
|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000/- | Hac. |
| **District: JALORE** | Samtipura | **Geographical Area** | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 4198 | |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | 0 | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 3313 | |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | 0 | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 479 | |
| | | **2. Govt. / waste /OTHER LA** | 406 | |
| | | **TOTAL COST** | 629.70 | |

| S. N. | ACTIVITY | Unit | Quntity | Unit Cost | Cost from Project Fund | Convergence Fund | Total Cost | Beneficiary contribution |
|---|---|---|---|---|---|---|---|---|
| **AI.** | **ADMINISTRATIVE COST** | | **10%** | **62.97** | 62.970 | 0.000 | 62.970 | |
| **II** | **MONITORING** | | **1%** | **6.297** | 6.297 | 0.000 | 6.297 | 0.000 |
| **III** | **EVALUATION** | | **1%** | **6.297** | 6.297 | 0.000 | 6.297 | 0.000 |
| | **TOTAL** | | **12%** | **75.564** | **75.564** | **0.000** | **75.564** | **0.000** |
| **B I** | **PREPARATORY PHASE (Entry Point Activity)** | | **4%** | **25.188** | 25.188 | 0.000 | 25.188 | 0.000 |
| **II** | **Institution And CAPACITY BUILDING** | | **5%** | **31.485** | 31.485 | 0.000 | 31.485 | 0.000 |
| **III** | **Preparation of DETAILED PROJECT REPORT(DPR)** | | **1%** | **6.297** | 6.297 | 0.000 | 6.297 | 0.000 |
| | **TOTAL** | | **10%** | **62.97** | **62.970** | **0.000** | **62.970** | **0.000** |
| **C** | **Watershed Development Works NRM** | | **60%** | **377.820** | | | | |
| **1** | **ARABLE land CONSERVATION measures** | | | | | | | |
| (i) | Vegetative Contour Bund | Ha. | 1061 | 11280 | 119.681 | 56.400 | 176.081 | 8.381 |
| (ii) | WHS (Tanka) | No. | 145 | 82000 | 118.900 | 9.800 | 128.700 | 8.327 |
| (iii) | Waste weir | No. | 56 | 14000 | 5.676 | 0.000 | 5.676 | 0.397 |
| (iv) | Gulley Control Structure Nallah Bunding | No. | | 10600 | 4.710 | 102.500 | 107.210 | 0.330 |
| (v) | Farm Pond | No. | | 50000 | 17.300 | 28.000 | 45.300 | 1.212 |
| | **TOTAL** | | | | **266.267** | **196.700** | **462.967** | **18.647** |
| **2** | **NON ARABLE Land CONSERVATION Measures** | | | | | | | |
| (i) | V Ditch for PD | Ha. | | 13760 | 5.504 | 0.000 | 5.504 | 0.385 |
| (ii) | Staggered Contour Trenches for PD | Ha. | | 11790 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iii) | Dug out Pond | No. | | 50000 | 14.000 | 10.500 | 24.500 | 0.980 |
| (iv) | WHS (Tanka) | No. | | 82000 | 19.680 | 17.220 | 36.900 | 1.378 |
| (v) | Nallah Bunding with ww | No. | | 24600 | 16.482 | 13.776 | 30.258 | 1.154 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | |
| (i) | LSCD 'A' | No. | | 18700 | 6.919 | 0.000 | 6.919 | 0.485 |
| (ii) | LSCD 'B' | No. | | 17200 | 6.536 | 0.000 | 6.536 | 0.458 |
| (iii) | LSCD 'C' | No. | | 15800 | 6.162 | 0.000 | 6.162 | 0.432 |
| (iv) | LSCD 'D' | No. | | 14400 | 6.192 | 0.000 | 6.192 | 0.434 |
| (v) | LSCD 'E' | No. | | 13000 | 5.850 | 0.000 | 5.850 | 0.410 |
| (vi) | Masonry Check Dam | No. | | | 24.228 | 0.000 | 24.228 | 1.697 |
| | **TOTAL** | | | | **377.820** | **238.196** | **616.016** | **26.459** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | | | | | | |
| | **For Arable Land** | | | | | | | |
| 1 | Arable bund | Ha. | | 320 | 3.395 | 0.000 | 3.395 | 0.996 |
| 2 | Agro Forestry | No. | | 73 | 3.178 | 41.160 | 44.338 | 0.932 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 | Horticulture Plantation with fencing & Tanka | No. | | 29400 | 42.630 | 2.100 | 44.730 | 12.507 |
| 4 | Horticulture Plantation without fencing (Orchard) | No. | | 10000 | 1.900 | 0.000 | 1.900 | 0.557 |
| 5 | Vermi Compost | No. | | 36000 | 3.240 | 0.000 | 3.240 | 0.951 |
| 6 | Crop Demonstration | No. | | 2000 | 1.940 | 0.000 | 1.940 | 0.569 |
| 7 | Homested Kitchen Gerden | No. | | 1000 | 0.950 | 0.000 | 0.950 | 0.279 |
| 8 | Medicinal Plants | No. | | 3000 | 1.590 | 0.000 | 1.590 | 0.466 |
| | **For Non-arable Land** | | | | | | | |
| 1 | V Ditch for PD | Ha. | | 2200 | 0.880 | 0.000 | 0.880 | 0.258 |
| 2 | Staggered Contour Trenches for PD | Ha. | | 900 | 0.000 | 0.000 | 0.000 | 0.000 |
| 3 | Fencing of PD (by SW) | Ha. | | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| 4 | Fencing of PD (by DCB) | Ha. | | 0 | 12.585 | 0.000 | 12.585 | 3.692 |
| 1 | **TOOLKIT, TRAINING & REVOLVING FUND OF SHG** | | | | | | | |
| (i) | KARIGER | No. | | 26250 | 3.413 | 0.000 | 3.413 | 0.000 |
| (ii) | WHITEWASH & PENT | No. | | 40500 | 2.025 | 0.000 | 2.025 | 0.000 |
| (iii) | TAILORING | No. | | 67000 | 2.010 | 0.000 | 2.010 | 0.000 |
| (iv) | MASALA UDYOG | No. | | 42200 | 1.688 | 0.000 | 1.688 | 0.000 |
| (v) | BICYCLE/MOBILE | No. | | 34000 | 1.020 | 0.000 | 1.020 | 0.000 |
| (vi) | KUMAHRI UDYOG | No. | | 22000 | 0.660 | 0.000 | 0.660 | 0.000 |
| (vii) | ARI TARI UDYOG | No. | | 50000 | 1.500 | 0.000 | 1.500 | 0.000 |
| 2 | **LIVESTOCK MANAGEMENT** | | | | | | | |
| (i.) | Animal Health Camp | No. | | 20000 | 3.400 | 0.000 | 3.400 | 0.997 |
| (ii) | Vaccination | | | 0 | 2.700 | 0.000 | 2.700 | 0.792 |
| (iii) | Distribution of Buffalo bulls | No. | | 25000 | 1.250 | 0.000 | 1.250 | 0.367 |
| (iv) | A I | | | 0 | 2.501 | 0.000 | 2.501 | 0.734 |
| | **TOTAL** | | | | **94.455** | **43.260** | **137.715** | **24.098** |
| **IX** | **CONSOLIDATION PHASE** | | **3%** | | **18.891** | **0.000** | **18.891** | **0.000** |
| | **GRAND TOTAL** | | | | **629.700** | **281.456** | **911.156** | **50.557** |

# CHAPTER IV

## ACTIVITY WISE TOTAL ABSTRACT OF COST GRAM PANCHAYAT SAMTIPURA

| | | | | |
|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. |
| **District: JALORE** | Samtipura | **Geographical Area** | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 1013 | Hac. |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 709 | Hac. |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 207 | Hac. |
| | | **2. Govt. / waste /OTHER LAND** | 97 | Hac. |
| | | **TOTAL COST** | 151.95 | Lac. |

| S. N. | ACTIVITY | Unit | Quantity | Unit Cost | Total cost | Cost from Project Fund | Convergence Fund | Beneficiary contribution |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| **AI.** | **ADMINISTRATIVE COST** | | **10%** | **15.195** | 15.195 | 15.195 | 0.000 | 0.000 |
| **II** | **MONITORING** | | **1%** | **1.520** | 1.520 | 1.520 | 0.000 | 0.000 |
| **III** | **EVALUATION** | | **1%** | **1.520** | 1.520 | 1.520 | 0.000 | 0.000 |
| **TOTAL** | | | **12%** | **18.234** | **18.234** | **18.234** | **0.000** | **0.000** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | | **4%** | **6.078** | 6.078 | 6.078 | 0.000 | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | | **5%** | **7.598** | 7.598 | 7.598 | 0.000 | 0.000 |
| **III** | **Preparation of DETAILED** | | **1%** | **1.520** | 1.520 | 1.520 | 0.000 | 0.000 |
| **TOTAL** | | | **10%** | **15.195** | **15.195** | **15.195** | **0.000** | **0.000** |
| **VII** | **watershed Development works(NRM)** | | **60%** | **91.17** | | | | |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | |
| (i) | Vegitative counter bund | Hac | 300 | 11280 | 33.840 | 33.840 | 9.024 | 2.370 |
| (ii) | WHS (Tanka) | No. | 46 | 82000 | 37.720 | 37.720 | 16.400 | 2.642 |
| (iii) | Waste weir | No. | 20 | 14000 | 2.800 | 2.800 | 1.400 | 0.196 |
| (iv) | Gulley Control Structure Nallah | No. | 6 | 10600 | 0.636 | 0.636 | 0.000 | 0.045 |
| (v) | Water harvesting tanka | No. | 2 | 50000 | 1.000 | 1.000 | 4.000 | 0.070 |
| **TOTAL** | | | | | **75.996** | **75.996** | **30.824** | **5.322** |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | |

| S. N. | ACTIVITY | Unit | Quantity | Unit Cost | Total cost | Cost from Project Fund | Convergence Fund | Beneficiary contribution |
|---|---|---|---|---|---|---|---|---|
| (i) | V Ditch for PD | | 10 | 13760 | 1.376 | 1.376 | 0.000 | 0.096 |
| (ii) | Staggered Contour Trenches for | | 0 | 11790 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iii) | Dug out Pond | | 4 | 50000 | 2.000 | 2.000 | 1.500 | 0.140 |
| (iv) | WHS (Tanka) | | 2 | 82000 | 1.640 | 1.640 | 2.460 | 0.115 |
| (v) | Nallah Bunding with ww | | 5 | 24600 | 1.230 | 1.230 | 1.968 | 0.086 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | |
| (i) | LSCD 'A' | | 2 | 18700 | 0.374 | 0.374 | 0.000 | 0.026 |
| (ii) | LSCD 'B' | | 3 | 17200 | 0.516 | 0.516 | 0.000 | 0.036 |
| (iii) | LSCD 'C' | | 4 | 15800 | 0.632 | 0.632 | 0.000 | 0.044 |
| (iv) | LSCD 'D' | | 8 | 14400 | 1.152 | 1.152 | 0.000 | 0.081 |
| (v) | LSCD 'E' | | 10 | 13000 | 1.300 | 1.300 | 0.000 | 0.091 |
| (vi) | Masonry Check Dam | | 1 | | 4.954 | 4.954 | 0.000 | 0.347 |
| **TOTAL** | | | | | **91.170** | **91.170** | **36.752** | **6.385** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | **15%** | **22.793** | | | | |
| | **For Arable Land** | | | | | | | |
| 1 | Arable bund | | 300 | 320 | 0.960 | 0.960 | 0.000 | 0.282 |
| 2 | Agro Forestry | | 1159 | 73 | 0.846 | 0.846 | 0.000 | 0.248 |
| 3 | Horticulture Plantation with | | 46 | 29400 | 13.524 | 13.524 | 5.880 | 3.968 |
| 4 | Horticulture Plantation without | | 3 | 10000 | 0.300 | 0.300 | 0.300 | 0.088 |
| 5 | Vermi Compost | | 2 | 36000 | 0.720 | 0.720 | 0.000 | 0.211 |
| 6 | Crop Demonstration | | 40 | 2000 | 0.800 | 0.800 | 0.000 | 0.235 |
| 7 | Homested Kitchen Gerden | | 40 | 1000 | 0.400 | 0.400 | 0.000 | 0.117 |
| 8 | Medicinal Plants | | 20 | 3000 | 0.600 | 0.600 | 0.000 | 0.176 |
| | **For Non-arable Land** | | | | | | | |
| 1 | V Ditch for PD | | 10 | 2200.00 | 0.220 | 0.220 | 0.000 | 0.065 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.00 | 0.000 | 0.000 | 0.000 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 4 | Fencing of PD (by DCB) | | 10 | 0.000 | 2.517 | 2.517 | 0.000 | 0.738 |
| 1 | **TOOLKIT, TRAINING & REVOLVING FUND OF SHG** | | | | | | | |
| (i) | KARIGER | | 1 | 26250 | 0.263 | 0.263 | 0.000 | 0.000 |
| (ii) | WHITEWASH & PENT | | 0 | 40500 | 0.000 | 0.000 | 0.000 | 0.000 |

| S. N. | ACTIVITY | Unit | Quantity | Unit Cost | Total cost | Cost from Project Fund | Convergence Fund | Beneficiary contribution |
|---|---|---|---|---|---|---|---|---|
| (iii) | TAILORING | | 0 | 67000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iv) | MASALA UDYOG | | 1 | 42200 | 0.422 | 0.422 | 0.000 | 0.000 |
| (v) | BICYCLE/MOBILE | | 0 | 34000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (vi) | KUMAHRI UDYOG | | 1 | 22000 | 0.220 | 0.220 | 0.000 | 0.000 |
| (vii) | ARI TARI UDYOG | | 0 | 50000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2 | **LIVESTOCK MANAGEMENT** | | | | | | | |
| (i.) | Animal Health Camp | | 3 | 20000 | 0.600 | 0.600 | 0.000 | 0.176 |
| (ii) | Vaccination | | | | 0.200 | 0.200 | 0.000 | 0.059 |
| (iii) | Purchase of Bull / Pada | | 0 | 20000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iv) | A I | | | | 0.201 | 0.201 | 0.000 | 0.059 |
| | **TOTAL** | | | | **22.793** | **22.793** | **6.180** | **6.422** |
| **IX** | **CONSOLIDATION PHASE** | | **3%** | **4.559** | **4.559** | **4.559** | | |
| | **GRAND TOTAL** | | **100%** | | **151.950** | **151.950** | **42.932** | **12.806** |

# CHAPTER IV

## ACTIVITY WISE TOTAL ABSTRACT OF COST GRAM PANCHAYAT SANKARNA

| | | | | |
|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. |
| **District: JALORE** | Sankarna | **Geographical Area** | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 963 | Hac. |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 794 | Hac. |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 93 | Hac. |
| | | **2. Govt. / waste /OTHER LAND** | 76 | Hac. |
| | | **TOTAL COST** | 144.45 | Lac. |

| S. N. | ACTIVITY | Unit | Quantity | Unit Cost | Total cost | Cost from Project Fund | Convergence Fund | Beneficiary contribution |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| **AI.** | **ADMINISTRATIVE COST** | | **10%** | **14.445** | 14.445 | 14.445 | 0.000 | 0.000 |
| **II** | **MONITORING** | | **1%** | **1.445** | 1.445 | 1.445 | 0.000 | 0.000 |
| **III** | **EVALUATION** | | **1%** | **1.445** | 1.445 | 1.445 | 0.000 | 0.000 |
| **TOTAL** | | | **12%** | **17.334** | **17.334** | **17.334** | **0.000** | **0.000** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | | **4%** | **5.778** | 5.778 | 5.778 | 0.000 | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | | **5%** | **7.223** | 7.223 | 7.223 | 0.000 | 0.000 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | | **1%** | **1.445** | 1.445 | 1.445 | 0.000 | 0.000 |
| **TOTAL** | | | **10%** | **14.445** | **14.445** | **14.445** | **0.000** | **0.000** |
| **VII** | **watershed Development works(NRM)** | | **60%** | **86.67** | | | | |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | |
| (i) | Earthen Bund | Hac | 288 | 11280 | 32.486 | 32.486 | 9.024 | 2.275 |
| (ii) | WHS (Tanka) | | 20 | 82000 | 16.400 | 16.400 | 16.400 | 1.148 |
| (iii) | Waste weir | | 12 | 14000 | 1.680 | 1.680 | 1.400 | 0.118 |
| (iv) | Gulley Control Structure Nallah Bunding | | 10 | 10600 | 1.060 | 1.060 | 0.000 | 0.074 |
| (v) | Farm Pond | | 8 | 50000 | 4.000 | 4.000 | 4.000 | 0.280 |
| **TOTAL** | | | | | **55.626** | **55.626** | **30.824** | **3.896** |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | |
| (i) | V Ditch for PD | | 10 | 13760 | 1.376 | 1.376 | 0.000 | 0.096 |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iii) | Dug out Pond | | 5 | 50000 | 2.500 | 2.500 | 1.500 | 0.175 |
| (iv) | WHS (Tanka) | | 8 | 82000 | 6.560 | 6.560 | 2.460 | 0.459 |
| (v) | Nallah Bunding with ww | | 40 | 24600 | 9.840 | 9.840 | 1.968 | 0.689 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | |
| (i) | LSCD 'A' | | 8 | 18700 | 1.496 | 1.496 | 0.000 | 0.105 |
| (ii) | LSCD 'B' | | 8 | 17200 | 1.376 | 1.376 | 0.000 | 0.096 |
| (iii) | LSCD 'C' | | 8 | 15800 | 1.264 | 1.264 | 0.000 | 0.089 |
| (iv) | LSCD 'D' | | 8 | 14400 | 1.152 | 1.152 | 0.000 | 0.081 |
| (v) | LSCD 'E' | | 8 | 13000 | 1.040 | 1.040 | 0.000 | 0.073 |
| (vi) | Masonry Check Dam | | 1 | | 4.440 | 4.440 | 0.000 | 0.311 |

| S. N. | ACTIVITY | Unit | Quantity | Unit Cost | Total cost | Cost from Project Fund | Convergence Fund | Beneficiary contribution |
|---|---|---|---|---|---|---|---|---|
| **TOTAL** | | | | | **86.670** | **86.670** | **36.752** | **6.069** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | **15%** | **21.668** | | | | |
| | **For Arable Land** | | | | | | | |
| 1 | Arable bund | | 288 | 320 | 0.922 | 0.922 | 0.000 | 0.270 |
| 2 | Agro Forestry | | 625 | 73 | 0.456 | 0.456 | 0.000 | 0.134 |
| 3 | Horticulture Plantation with fencing & Tanka | | 20 | 29400 | 5.880 | 5.880 | 5.880 | 1.725 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 3 | 10000 | 0.300 | 0.300 | 0.300 | 0.088 |
| 5 | Vermi Compost | | 5 | 36000 | 1.800 | 1.800 | 0.000 | 0.528 |
| 6 | Crop Demonstration | | 40 | 2000 | 0.800 | 0.800 | 0.000 | 0.235 |
| 7 | Homested Kitchen Gerden | | 40 | 1000 | 0.400 | 0.400 | 0.000 | 0.117 |
| 8 | Medicinal Plants | | 20 | 3000 | 0.600 | 0.600 | 0.000 | 0.176 |
| | **For Non-arable Land** | | | | | 0.000 | 0.000 | 0.000 |
| 1 | V Ditch for PD | | 10 | 2200.000 | 0.220 | 0.220 | 0.000 | 0.065 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | | 0.000 | 0.000 | 0.000 | 0.000 |
| 4 | Fencing of PD (by DCB) | | 10 | | 2.517 | 2.517 | 0.000 | 0.738 |
| 1 | **TOOLKIT, TRAINING & REVOLVING FUND OF SHG** | | | | | | | |
| (i) | KARIGER | | 2 | 26250 | 0.525 | 0.525 | 0.000 | 0.000 |
| (ii) | WHITEWASH & PENT | | 2 | 40500 | 0.810 | 0.810 | 0.000 | 0.000 |
| (iii) | TAILORING | | 2 | 67000 | 1.340 | 1.340 | 0.000 | 0.000 |
| (iv) | MASALA UDYOG | | 2 | 42200 | 0.844 | 0.844 | 0.000 | 0.000 |
| (v) | BICYCLE/MOBILE | | 2 | 34000 | 0.680 | 0.680 | 0.000 | 0.000 |
| (vi) | KUMAHRI UDYOG | | 2 | 22000 | 0.440 | 0.440 | 0.000 | 0.000 |
| (vii) | ARI TARI UDYOG | | 2 | 50000 | 1.000 | 1.000 | 0.000 | 0.000 |
| 2 | **LIVESTOCK MANAGEMENT** | | | | | | | |
| (i.) | Animal Health Camp | | 3 | 20000 | 0.600 | 0.600 | 0.000 | 0.176 |
| (ii) | Vaccination | | | | 0.500 | 0.500 | 0.000 | 0.147 |
| (iii) | Purchase of Bull / Pada | | 4 | 25000 | 1.000 | 1.000 | 0.000 | 0.293 |
| (iv) | A I | | | | 0.034 | 0.034 | 0.000 | 0.010 |
| **TOTAL** | | | | | **21.668** | **21.668** | **6.180** | **4.703** |
| **IX** | **CONSOLIDATION PHASE** | | **3%** | **4.334** | **4.334** | **4.334** | | |
| | **GRAND TOTAL** | | **100%** | | **144.450** | **144.450** | **42.932** | **10.772** |

# CHAPTER IV

## ACTIVITY WISE TOTAL ABSTRACT OF COST GRAM PANCHAYAT LETA

| | | | | |
|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. |
| **District: JALORE** | Leta | **Geographical Area** | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 627 | Hac. |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 473 | Hac. |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 103 | Hac. |
| | | **2. Govt. / waste /OTHER LAND** | 51 | Hac. |
| | | **TOTAL COST** | 94.05 | Lac. |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | Cost from Project Fund | Convergence Fund | Beneficiary contribution |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| **AI.** | **ADMINISTRATIVE COST** | | **10%** | **9.405** | 9.405 | 9.405 | 0.000 | 0.000 |
| **II** | **MONITORING** | | **1%** | **0.941** | 0.941 | 0.941 | 0.000 | 0.000 |
| **III** | **EVALUATION** | | **1%** | **0.941** | 0.941 | 0.941 | 0.000 | 0.000 |
| **TOTAL** | | | **12%** | **11.286** | **11.286** | **11.286** | **0.000** | **0.000** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | | **4%** | **3.76** | 3.762 | 3.762 | 0.000 | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | | **5%** | **4.70** | 4.703 | 4.703 | 0.000 | 0.000 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | | **1%** | **0.94** | 0.941 | 0.941 | 0.000 | 0.000 |
| **TOTAL** | | | **10%** | **9.405** | **9.405** | **9.405** | **0.000** | **0.000** |
| **VII** | **watershed Development works(NRM)** | | **60%** | **56.43** | | | | |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | |
| (i) | Earthen Bund | | 135 | 11280 | 15.228 | 15.228 | 9.024 | 1.066 |
| (ii) | WHS (Tanka) | | 25 | 82000 | 20.500 | 20.500 | 16.400 | 1.436 |
| (iii) | Waste weir | | 4 | 14000 | 0.560 | 0.560 | 1.400 | 0.039 |
| (iv) | Gulley Control Structure Nallah Bunding | | 8 | 10600 | 0.848 | 0.848 | 0.000 | 0.059 |
| (v) | Farm Pond | | 8 | 50000 | 4.000 | 4.000 | 4.000 | 0.280 |
| **TOTAL** | | | | | **41.136** | **41.136** | **30.824** | **2.881** |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | |
| (i) | V Ditch for PD | | 10 | 13760 | 1.376 | 1.376 | 0.000 | 0.096 |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iii) | Dug out Pond | | 4 | 50000 | 2.000 | 2.000 | 1.500 | 0.140 |
| (iv) | WHS (Tanka) | | 8 | 82000 | 6.560 | 6.560 | 2.460 | 0.459 |
| (v) | Nallah Bunding with ww | | 8 | 24600 | 1.968 | 1.968 | 1.968 | 0.138 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | |
| (i) | LSCD 'A' | | 4 | 18700 | 0.748 | 0.748 | 0.000 | 0.052 |
| (ii) | LSCD 'B' | | 4 | 17200 | 0.688 | 0.688 | 0.000 | 0.048 |
| (iii) | LSCD 'C' | | 4 | 15800 | 0.632 | 0.632 | 0.000 | 0.044 |
| (iv) | LSCD 'D' | | 4 | 14400 | 0.576 | 0.576 | 0.000 | 0.040 |
| (v) | LSCD 'E' | | 4 | 13000 | 0.520 | 0.520 | 0.000 | 0.036 |
| (vi) | Masonry Check Dam | | 0 | | 0.226 | 0.226 | 0.000 | 0.016 |
| **TOTAL** | | | | | **56.430** | **56.430** | **36.752** | **3.952** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | **15%** | **14.108** | | | | |
| | **For Arable Land** | | | | | | | |
| 1 | Arable bund | | 135 | 320 | 0.432 | 0.432 | 0.000 | 0.127 |
| 2 | Agro Forestry | | 20 | 73 | 0.015 | 0.015 | 0.000 | 0.004 |
| 3 | Horticulture Plantation with fencing & Tanka | | 25 | 29400 | 7.350 | 7.350 | 5.880 | 2.156 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | Cost from Project Fund | Convergence Fund | Beneficiary contribution |
|---|---|---|---|---|---|---|---|---|
| 4 | Horticulture Plantation without fencing (Orchard) | | 2 | 10000 | 0.200 | 0.200 | 0.300 | 0.059 |
| 5 | Vermi Compost | | 1 | 36000 | 0.360 | 0.360 | 0.000 | 0.106 |
| 6 | Crop Demonstration | | 5 | 2000 | 0.100 | 0.100 | 0.000 | 0.029 |
| 7 | Homested Kitchen Gerden | | 3 | 1000 | 0.030 | 0.030 | 0.000 | 0.009 |
| 8 | Medicinal Plants | | 4 | 3000 | 0.120 | 0.120 | 0.000 | 0.035 |
| | **For Non-arable Land** | | | | | | | |
| 1 | V Ditch for PD | | 10 | 2200.000 | 0.220 | 0.220 | 0.000 | 0.065 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 4 | Fencing of PD (by DCB) | | 10 | 0.000 | 2.517 | 2.517 | 0.000 | 0.738 |
| 1 | **TOOLKIT, TRAINING & REVOLVING FUND OF SHG** | | | | | | | |
| (i) | KARIGER | | 2 | 26250 | 0.525 | 0.525 | 0.000 | 0.000 |
| (ii) | WHITEWASH & PENT | | 2 | 40500 | 0.810 | 0.810 | 0.000 | 0.000 |
| (iii) | TAILORING | | 1 | 67000 | 0.670 | 0.670 | 0.000 | 0.000 |
| (iv) | MASALA UDYOG | | 0 | 42200 | 0.000 | 0.000 | 0.000 | 0.000 |
| (v) | BICYCLE/MOBILE | | 0 | 34000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (vi) | KUMAHRI UDYOG | | 0 | 22000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (vii) | ARI TARI UDYOG | | 0 | 50000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2 | **LIVESTOCK MANAGEMENT** | | | | | | | |
| (i.) | Animal Health Camp | | 0 | 20000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (ii) | Vaccination | | 0 | | 0.500 | 0.500 | 0.000 | 0.147 |
| (iii) | Purchase of Bull / Pada | | 0 | 25000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iv) | A I | | | | 0.259 | 0.259 | 0.000 | 0.076 |
| **TOTAL** | | | | | **14.108** | **14.108** | **6.180** | **3.551** |
| **IX** | **CONSOLIDATION PHASE** | | **3%** | **2.822** | **2.822** | **2.822** | **0.000** | **0.000** |
| | **GRAND TOTAL** | | **100%** | | **94.050** | **94.050** | **42.932** | **7.502** |

# CHAPTER IV

## ACTIVITY WISE TOTAL ABSTRACT OF COST GRAM PANCHAYAT GODAN

| | | | | |
|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. |
| **District: JALORE** | Godan | **Geographical Area** | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 489 | Hac. |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 378 | Hac. |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 30 | Hac. |
| | | **2. Govt. / waste /OTHER LAND** | 81 | Hac. |
| | | **TOTAL COST** | 73.35 | Lac. |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | Cost from Project Fund | Convergence Fund | Beneficiary contribution |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| **AI.** | **ADMINISTRATIVE COST** | | **10%** | **7.335** | 7.335 | 7.335 | 0.000 | 0.000 |
| **II** | **MONITORING** | | **1%** | **0.734** | 0.734 | 0.734 | 0.000 | 0.000 |
| **III** | **EVALUATION** | | **1%** | **0.734** | 0.734 | 0.734 | 0.000 | 0.000 |
| | **TOTAL** | | **12%** | **8.802** | **8.802** | **8.802** | **0.000** | **0.000** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | | **4%** | **2.93** | 2.934 | 2.934 | 0.000 | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | | **5%** | **3.67** | 3.668 | 3.668 | 0.000 | 0.000 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | | **1%** | **0.73** | 0.734 | 0.734 | 0.000 | 0.000 |
| | **TOTAL** | | **10%** | **7.335** | **7.335** | **7.335** | **0.000** | **0.000** |
| **VII** | **watershed Development works(NRM)** | | **60%** | **44.01** | | | | |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | |
| (i) | Earthen Bund | Hac | 108 | 11280 | 12.182 | 12.182 | 9.024 | 0.853 |
| (ii) | WHS (Tanka) | No | 20 | 82000 | 16.400 | 16.400 | 16.400 | 1.148 |
| (iii) | Waste weir | No. | 5 | 14000 | 0.700 | 0.700 | 1.400 | 0.049 |
| (iv) | Gulley Control Structure Nallah Bunding | No. | 5 | 10600 | 0.530 | 0.530 | 0.000 | 0.037 |
| (v) | Farm Pond | No. | 2 | 50000 | 1.000 | 1.000 | 4.000 | 0.070 |
| | **TOTAL** | | | | **30.812** | **30.812** | **30.824** | **2.158** |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | |
| (i) | V Ditch for PD | | 10 | 13760 | 1.376 | 1.376 | 0.000 | 0.096 |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iii) | Dug out Pond | | 4 | 50000 | 2.000 | 2.000 | 1.500 | 0.140 |
| (iv) | WHS (Tanka) | | 2 | 82000 | 1.640 | 1.640 | 2.460 | 0.115 |
| (v) | Nallah Bunding with ww | | 4 | 24600 | 0.984 | 0.984 | 1.968 | 0.069 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | |
| (i) | LSCD 'A' | No. | 4 | 18700 | 0.748 | 0.748 | 0.000 | 0.052 |
| (ii) | LSCD 'B' | No. | 4 | 17200 | 0.688 | 0.688 | 0.000 | 0.048 |
| (iii) | LSCD 'C' | No. | 4 | 15800 | 0.632 | 0.632 | 0.000 | 0.044 |
| (iv) | LSCD 'D' | No. | 4 | 14400 | 0.576 | 0.576 | 0.000 | 0.040 |
| (v) | LSCD 'E' | No. | 4 | 13000 | 0.520 | 0.520 | 0.000 | 0.036 |
| (vi) | Masonry Check Dam | No. | 1 | | 4.034 | 4.034 | 0.000 | 0.282 |
| | **TOTAL** | | | | **44.010** | **44.010** | **36.752** | **3.082** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | **15%** | **11.003** | | | | |
| | **For Arable Land** | | | | | | | |
| 1 | Arable bund | Hac | 108 | 320 | 0.346 | 0.346 | 0.000 | 0.101 |
| 2 | Agro Forestry | | 250 | 73 | 0.183 | 0.183 | 0.000 | 0.054 |
| 3 | Horticulture Plantation with fencing & Tanka | | 20 | 29400 | 5.880 | 5.880 | 5.880 | 1.725 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | Cost from Project Fund | Convergence Fund | Beneficiary contribution |
|---|---|---|---|---|---|---|---|---|
| 4 | Horticulture Plantation without fencing (Orchard) | | 5 | 10000 | 0.500 | 0.500 | 0.300 | 0.147 |
| 5 | Vermi Compost | | 0 | 36000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 6 | Crop Demonstration | | 5 | 2000 | 0.100 | 0.100 | 0.000 | 0.029 |
| 7 | Homested Kitchen Gerden | | 5 | 1000 | 0.050 | 0.050 | 0.000 | 0.015 |
| 8 | Medicinal Plants | | 5 | 3000 | 0.150 | 0.150 | 0.000 | 0.044 |
| | **For Non-arable Land** | | | | | | | |
| 1 | V Ditch for PD | | 10 | 2200.000 | 0.220 | 0.220 | 0.000 | 0.065 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 4 | Fencing of PD (by DCB) | | 10 | 0.000 | 2.517 | 2.517 | 0.000 | 0.738 |
| 1 | **TOOLKIT, TRAINING & REVOLVING FUND OF SHG** | | | | | | | |
| (i) | KARIGER | | 1 | 26250 | 0.263 | 0.263 | 0.000 | 0.000 |
| (ii) | WHITEWASH & PENT | | 0 | 40500 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iii) | TAILORING | | 0 | 67000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iv) | MASALA UDYOG | | 0 | 42200 | 0.000 | 0.000 | 0.000 | 0.000 |
| (v) | BICYCLE/MOBILE | | 0 | 34000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (vi) | KUMAHRI UDYOG | | 0 | 22000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (vii) | ARI TARI UDYOG | | 0 | 50000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2 | **LIVESTOCK MANAGEMENT** | | | | | | | |
| (i.) | Animal Health Camp | | 0 | 20000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (ii) | Vaccination | | | | 0.500 | 0.500 | 0.000 | 0.147 |
| (iii) | Purchase of Bull / Pada | | 0 | 25000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iv) | A I | | | | 0.295 | 0.295 | 0.000 | 0.087 |
| **TOTAL** | | | | | **11.003** | **11.003** | **6.180** | **3.151** |
| **IX** | **CONSOLIDATION PHASE** | | **3%** | **2.201** | **2.201** | **2.201** | | |
| | **GRAND TOTAL** | | **100%** | | **73.350** | **73.350** | **42.932** | **6.233** |

# CHAPTER IV

## ACTIVITY WISE TOTAL ABSTRACT OF COST GRAM PANCHAYAT BADANEADI

| | | | | |
|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. |
| **District: JALORE** | BADANEADI | **Geographical Area** | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 741 | Hac. |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 626 | Hac. |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 30 | Hac. |
| | | **2. Govt. / waste /OTHER LAND** | 85 | Hac. |
| | | **TOTAL COST** | 111.15 | Lac. |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | Cost from Project Fund | Convergence Fund | Beneficiary contribution |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| **AI.** | **ADMINISTRATIVE COST** | | **10%** | **11.115** | 11.115 | 11.115 | 11.115 | 0.000 |
| **II** | **MONITORING** | | **1%** | **1.112** | 1.112 | 1.112 | 0.000 | 0.000 |
| **III** | **EVALUATION** | | **1%** | **1.112** | 1.112 | 1.112 | 0.000 | 0.000 |
| **TOTAL** | | | **12%** | **13.338** | **13.338** | **13.338** | **11.115** | **0.000** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | | **4%** | **4.45** | 4.446 | 4.446 | 4.446 | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | | **5%** | **5.56** | 5.558 | 5.558 | 5.558 | 0.000 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | | **1%** | **1.11** | 1.112 | 1.112 | **1.112** | **0.000** |
| **TOTAL** | | | **10%** | **11.115** | **11.115** | **11.115** | **11.115** | **0.000** |
| **VII** | **watershed Development works(NRM)** | | **60%** | **66.69** | | | | |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | |
| (i) | Earthen Bund | | 159 | 11280 | 17.935 | 17.935 | 9.024 | 1.256 |
| (ii) | WHS (Tanka) | | 27 | 82000 | 22.140 | 22.140 | 16.400 | 1.550 |
| (iii) | Waste weir | | 5 | 14000 | 0.700 | 0.700 | 1.400 | 0.049 |
| (iv) | Gulley Control Structure Nallah Bunding | | 5 | 10600 | 0.530 | 0.530 | 0.000 | 0.037 |
| (v) | Farm Pond | | 8 | 50000 | 4.000 | 4.000 | 4.000 | 0.280 |
| **TOTAL** | | | | | **45.305** | **45.305** | **30.824** | **3.173** |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | |
| (i) | V Ditch for PD | | 0 | 13760 | 0.000 | 0.000 | 0.000 | 0.000 |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iii) | Dug out Pond | | 5 | 50000 | 2.500 | 2.500 | 1.500 | 0.175 |
| (iv) | WHS (Tanka) | | 2 | 82000 | 1.640 | 1.640 | 2.460 | 0.115 |
| (v) | Nallah Bunding with ww | | 5 | 24600 | 1.230 | 1.230 | 1.968 | 0.086 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | 0.000 | 0.000 |
| (i) | LSCD 'A' | | 15 | 18700 | 2.805 | 2.805 | 0.000 | 0.196 |
| (ii) | LSCD 'B' | | 15 | 17200 | 2.580 | 2.580 | 0.000 | 0.181 |
| (iii) | LSCD 'C' | | 15 | 15800 | 2.370 | 2.370 | 0.000 | 0.166 |
| (iv) | LSCD 'D' | | 15 | 14400 | 2.160 | 2.160 | 0.000 | 0.151 |
| (v) | LSCD 'E' | | 15 | 13000 | 1.950 | 1.950 | 0.000 | 0.137 |
| (vi) | Masonry Check Dam | | 1 | | 4.150 | 4.150 | 0.000 | 0.291 |
| **TOTAL** | | | | | **66.690** | **66.690** | **36.752** | **4.670** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | **15%** | **16.673** | | | | |
| | **For Arable Land** | | | | | | | |
| 1 | Arable bund | | 159 | 320 | 0.509 | 0.509 | 0.000 | 0.149 |
| 2 | Agro Forestry | | 1500 | 73 | 1.095 | 1.095 | 0.000 | 0.321 |
| 3 | Horticulture Plantation with fencing & Tanka | | 27 | 29400 | 7.938 | 7.938 | 5.880 | 2.329 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | Cost from Project Fund | Convergence Fund | Beneficiary contribution |
|---|---|---|---|---|---|---|---|---|
| 4 | Horticulture Plantation without fencing (Orchard) | | 4 | 10000 | 0.400 | 0.400 | 0.300 | 0.117 |
| 5 | Vermi Compost | | 1 | 36000 | 0.360 | 0.360 | 0.000 | 0.106 |
| 6 | Crop Demonstration | | 2 | 2000 | 0.040 | 0.040 | 0.000 | 0.012 |
| 7 | Homested Kitchen Gerden | | 2 | 1000 | 0.020 | 0.020 | 0.000 | 0.006 |
| 8 | Medicinal Plants | | 2 | 3000 | 0.060 | 0.060 | 0.000 | 0.018 |
| | **For Non-arable Land** | | | | | | | |
| 1 | V Ditch for PD | | 0 | 2200.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 4 | Fencing of PD (by DCB) | | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1 | **TOOLKIT, TRAINING & REVOLVING FUND OF SHG** | | | | | | | |
| (i) | KARIGER | | 4 | 26250 | 1.050 | 1.050 | 0.000 | 0.000 |
| (ii) | WHITEWASH & PENT | | 1 | 40500 | 0.405 | 0.405 | 0.000 | 0.000 |
| (iii) | TAILORING | | 0 | 67000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iv) | MASALA UDYOG | | 1 | 42200 | 0.422 | 0.422 | 0.000 | 0.000 |
| (v) | BICYCLE/MOBILE | | 1 | 34000 | 0.340 | 0.340 | 0.000 | 0.000 |
| (vi) | KUMAHRI UDYOG | | 0 | 22000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (vii) | ARI TARI UDYOG | | 1 | 50000 | 0.500 | 0.500 | 0.000 | 0.000 |
| 2 | **LIVESTOCK MANAGEMENT** | | | | | | | |
| (i.) | Animal Health Camp | | 10 | 20000 | 2.000 | 2.000 | 0.000 | 0.587 |
| (ii) | Vaccination | | 0 | | 0.500 | 0.500 | 0.000 | 0.147 |
| (iii) | Purchase of Bull / Pada | | 1 | 25000 | 0.250 | 0.250 | 0.000 | 0.073 |
| (iv) | A I | | | | 0.784 | 0.784 | 0.000 | 0.230 |
| **TOTAL** | | | | | **16.673** | **16.673** | **6.180** | **4.094** |
| **IX** | **CONSOLIDATION PHASE** | | **3%** | **3.335** | **3.335** | **3.335** | **0.000** | **0.000** |
| | **GRAND TOTAL** | | **100%** | | **111.150** | **111.150** | **42.932** | **8.765** |

# CHAPTER IV

## ACTIVITY WISE TOTAL ABSTRACT OF COST GRAM PANCHAYAT OUN

| | | | | |
|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. |
| **District: JALORE** | Oun | **Geographical Area** | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 253 | Hac. |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 222 | Hac. |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 16 | Hac. |
| | | **2. Govt. / waste /OTHER LAND** | 15 | Hac. |
| | | **TOTAL COST** | 37.95 | Lac. |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | Cost from Project Fund | Convergence Fund | Beneficiary contribution |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| **AI.** | **ADMINISTRATIVE COST** | | **10%** | **3.795** | 3.795 | 3.795 | 0.000 | 0.000 |
| **II** | **MONITORING** | | **1%** | **0.380** | 0.380 | 0.380 | 0.000 | 0.000 |
| **III** | **EVALUATION** | | **1%** | **0.380** | 0.380 | 0.380 | 0.000 | 0.000 |
| | **TOTAL** | | **12%** | **4.554** | **4.554** | **4.554** | **0.000** | **0.000** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | | **4%** | **1.52** | 1.518 | 1.518 | 0.000 | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | | **5%** | **1.90** | 1.898 | 1.898 | 0.000 | 0.000 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | | **1%** | **0.38** | 0.380 | 0.380 | **0.000** | **0.000** |
| | **TOTAL** | | **10%** | **3.795** | **3.795** | **3.795** | **0.000** | **0.000** |
| **VII** | **watershed Development works(NRM)** | | **60%** | **22.77** | | | | |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | |
| (i) | Earthen Bund | | 46 | 11280 | 5.189 | 5.189 | 6.768 | 0.363 |
| (ii) | WHS (Tanka) | | 5 | 82000 | 4.100 | 4.100 | 12.300 | 0.287 |
| (iii) | Waste weir | | 5 | 14000 | 0.700 | 0.700 | 1.400 | 0.049 |
| (iv) | Gulley Control Structure Nallah Bunding | | 5 | 10600 | 0.53 | 0.530 | 0.000 | 0.037 |
| (v) | Farm Pond | | 2 | 50000 | 1.00 | 1.000 | 4.000 | 0.070 |
| | **TOTAL** | | | | **11.519** | **11.519** | **24.468** | **0.807** |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | |
| (i) | V Ditch for PD | | 0 | 13760 | 0.00 | 0.000 | 0.000 | 0.000 |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.00 | 0.000 | 0.000 | 0.000 |
| (iii) | Dug out Pond | | 5 | 50000 | 2.50 | 2.500 | 1.500 | 0.175 |
| (iv) | WHS (Tanka) | | 2 | 82000 | 1.64 | 1.640 | 2.460 | 0.115 |
| (v) | Nallah Bunding with ww | | 5 | 24600 | 1.23 | 1.230 | 1.968 | 0.086 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | 0.000 | 0.000 |
| (i) | LSCD 'A' | | 2 | 18700 | 0.37 | 0.374 | 0.000 | 0.026 |
| (ii) | LSCD 'B' | | 2 | 17200 | 0.34 | 0.344 | 0.000 | 0.024 |
| (iii) | LSCD 'C' | | 2 | 15800 | 0.32 | 0.316 | 0.000 | 0.022 |
| (iv) | LSCD 'D' | | 2 | 14400 | 0.29 | 0.288 | 0.000 | 0.020 |
| (v) | LSCD 'E' | | 2 | 13000 | 0.26 | 0.260 | 0.000 | 0.018 |
| (vi) | Masonry Check Dam | | 1 | | 4.299 | 4.299 | 0.000 | 0.301 |
| | **TOTAL** | | | | **22.770** | **22.770** | **30.396** | **1.595** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | **15%** | **5.693** | | | | |
| | **For Arable Land** | | | | | | | |
| 1 | Arable bund | | 46 | 320 | 0.147 | 0.147 | 0.000 | 0.043 |
| 2 | Agro Forestry | | 250 | 73 | 0.183 | 0.183 | 0.000 | 0.054 |
| 3 | Horticulture Plantation with fencing & Tanka | | 5 | 29400 | 1.470 | 1.470 | 5.880 | 0.431 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | Cost from Project Fund | Convergence Fund | Beneficiary contribution |
|---|---|---|---|---|---|---|---|---|
| 4 | Horticulture Plantation without fencing (Orchard) | | 2 | 10000 | 0.200 | 0.200 | 0.300 | 0.059 |
| 5 | Vermi Compost | | 0 | 36000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 6 | Crop Demonstration | | 5 | 2000 | 0.100 | 0.100 | 0.000 | 0.029 |
| 7 | Homested Kitchen Gerden | | 5 | 1000 | 0.050 | 0.050 | 0.000 | 0.015 |
| 8 | Medicinal Plants | | 2 | 3000 | 0.060 | 0.060 | 0.000 | 0.018 |
| | **For Non-arable Land** | | | | | | | |
| 1 | V Ditch for PD | | 0 | 2200.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 4 | Fencing of PD (by DCB) | | 0 | 0.000 | 2.517 | 2.517 | 0.000 | 0.738 |
| 1 | **TOOLKIT, TRAINING & REVOLVING FUND OF SHG** | | | | | | | |
| (i) | KARIGER | | 1 | 26250 | 0.263 | 0.263 | 0.000 | 0.000 |
| (ii) | WHITEWASH & PENT | | 0 | 40500 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iii) | TAILORING | | 0 | 67000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iv) | MASALA UDYOG | | 0 | 42200 | 0.000 | 0.000 | 0.000 | 0.000 |
| (v) | BICYCLE/MOBILE | | 0 | 34000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (vi) | KUMAHRI UDYOG | | 0 | 22000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (vii) | ARI TARI UDYOG | | 0 | 50000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2 | **LIVESTOCK MANAGEMENT** | | | | | | | |
| (i.) | Animal Health Camp | | 0 | 20000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (ii) | Vaccination | | | | 0.000 | 0.000 | 0.000 | 0.000 |
| (iii) | Purchase of Bull / Pada | | 0 | 25000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iv) | A I | | | | 0.703 | 0.703 | 0.000 | 0.206 |
| **TOTAL** | | | | | **5.692** | **5.692** | **6.180** | **1.593** |
| **IX** | **CONSOLIDATION PHASE** | | **3%** | **1.139** | **1.139** | **1.139** | **0.000** | |
| | **GRAND TOTAL** | | **100%** | | **37.950** | **37.950** | **36.576** | **3.188** |

# CHAPTER IV

## ACTIVITY WISE TOTAL ABSTRACT OF COST GRAM PANCHAYAT DESU

| | | | | |
|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. |
| **District: JALORE** | Desu | **Geographical Area** | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 112 | Hac. |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 111 | Hac. |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | | Hac. |
| | | **2. Govt. / waste /OTHER LAND** | 1 | Hac. |
| | | **TOTAL COST** | 16.80 | Lac. |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | Cost from Project Fund | Convergence Fund | Beneficiary contribution |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| **AI.** | **ADMINISTRATIVE COST** | | **10%** | **1.680** | 1.680 | 1.680 | 0.000 | 0.000 |
| **II** | **MONITORING** | | **1%** | **0.168** | 0.168 | 0.168 | 0.000 | 0.000 |
| **III** | **EVALUATION** | | **1%** | **0.168** | 0.168 | 0.168 | 0.000 | 0.000 |
| **TOTAL** | | | **12%** | **2.016** | **2.016** | **2.016** | **0.000** | **0.000** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | | **4%** | **0.67** | 0.672 | 0.672 | 0.000 | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | | **5%** | **0.84** | 0.840 | 0.840 | 0.000 | 0.000 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | | **1%** | **0.17** | **0.168** | **0.168** | **0.000** | **0.000** |
| **TOTAL** | | | **10%** | **1.680** | **1.680** | **1.680** | **0.000** | **0.000** |
| **VII** | **watershed Development works(NRM)** | | **60%** | **10.08** | | | | |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | |
| (i) | Earthen Bund | | 25 | 11280 | 2.820 | 2.820 | 4.512 | 0.197 |
| (ii) | WHS (Tanka) | | 2 | 82000 | 1.640 | 1.640 | 8.200 | 0.115 |
| (iii) | Waste weir | | 5 | 14000 | 0.700 | 0.700 | 1.400 | 0.049 |
| (iv) | Gulley Control Structure Nallah Bunding | | 2 | 10600 | 0.212 | 0.212 | 0.000 | 0.015 |
| (v) | Farm Pond | | 1 | 50000 | 0.500 | 0.500 | 4.000 | 0.035 |
| **TOTAL** | | | | | **5.872** | **5.872** | **18.112** | **0.411** |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | |
| (i) | V Ditch for PD | | 0 | 13760 | 0.000 | 0.000 | 0.000 | 0.000 |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iii) | Dug out Pond | | 1 | 50000 | 0.500 | 0.500 | 1.500 | 0.035 |
| (iv) | WHS (Tanka) | | 0 | 82000 | 0.000 | 0.000 | 2.460 | 0.000 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | Cost from Project Fund | Convergence Fund | Beneficiary contribution |
|---|---|---|---|---|---|---|---|---|
| (v) | Nallah Bunding with ww | | 0 | 24600 | 0.000 | 0.000 | 1.968 | 0.000 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | 0.000 | 0.000 |
| (i) | LSCD 'A' | | 2 | 18700 | 0.374 | 0.374 | 0.000 | 0.026 |
| (ii) | LSCD 'B' | | 2 | 17200 | 0.344 | 0.344 | 0.000 | 0.024 |
| (iii) | LSCD 'C' | | 2 | 15800 | 0.316 | 0.316 | 0.000 | 0.022 |
| (iv) | LSCD 'D' | | 2 | 14400 | 0.288 | 0.288 | 0.000 | 0.020 |
| (v) | LSCD 'E' | | 2 | 13000 | 0.260 | 0.260 | 0.000 | 0.018 |
| (vi) | Masonry Check Dam | | 1 | | 2.126 | 2.126 | 0.000 | 0.149 |
| **TOTAL** | | | | | **10.080** | **10.080** | **24.040** | **0.706** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | **15%** | **2.520** | | | | |
| | **For Arable Land** | | | | | | | |
| 1 | Arable bund | | 25 | 320 | 0.080 | 0.080 | 0.000 | 0.023 |
| 2 | Agro Forestry | | 550 | 73 | 0.402 | 0.402 | 0.000 | 0.118 |
| 3 | Horticulture Plantation with fencing & Tanka | | 2 | 29400 | 0.588 | 0.588 | 5.880 | 0.173 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 0 | 10000 | 0.000 | 0.000 | 0.300 | 0.000 |
| 5 | Vermi Compost | | 0 | 36000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 6 | Crop Demonstration | | 0 | 2000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 7 | Homested Kitchen Gerden | | 0 | 1000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 8 | Medicinal Plants | | 0 | 3000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | **For Non-arable Land** | | | | | | | |
| 1 | V Ditch for PD | | 0 | 2200.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | | 0.000 | 0.000 | 0.000 | 0.000 |
| 4 | Fencing of PD (by DCB) | | 0 | | 0.000 | 0.000 | 0.000 | 0.000 |
| 1 | **TOOLKIT, TRAINING & REVOLVING FUND OF SHG** | | | | | | | |
| (i) | KARIGER | | 2 | 26250 | 0.525 | 0.525 | 0.000 | 0.000 |
| (ii) | WHITEWASH & PENT | | 0 | 40500 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iii) | TAILORING | | 0 | 67000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iv) | MASALA UDYOG | | 0 | 42200 | 0.000 | 0.000 | 0.000 | 0.000 |
| (v) | BICYCLE/MOBILE | | 0 | 34000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (vi) | KUMAHRI UDYOG | | 0 | 22000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (vii) | ARI TARI UDYOG | | 0 | 50000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2 | **LIVESTOCK MANAGEMENT** | | | | | | | |
| (i.) | Animal Health Camp | | 1 | 20000 | 0.200 | 0.200 | 0.000 | 0.059 |
| (ii) | Vaccination | | | | 0.500 | 0.500 | 0.000 | 0.147 |
| (iii) | Purchase of Bull / Pada | | 0 | 25000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iv) | A I | | | | 0.225 | 0.225 | 0.000 | 0.066 |
| **TOTAL** | | | | | **2.520** | **2.520** | **6.180** | **0.585** |
| **IX** | **CONSOLIDATION PHASE** | | **3%** | **0.504** | **0.504** | **0.504** | **0.000** | |
| | **GRAND TOTAL** | | **100%** | | **16.800** | **16.800** | **30.220** | **1.291** |

# CHAPTER V

## ANNUAL ACTION PLAN THROUGH PROJECT FUND

| | | | |
|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000/- Hac. |
| **District: JALORE** | | **Geographical Area** | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 4198 |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 3313 |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 479 |
| | | **2. Govt. / waste /OTHER LAND** | 406 |
| | | **TOTAL COST** | 629.70 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| **AI.** | **ADMINISTRATIVE COST** | | **10%** | **62.970** | 62.970 | **0.000** | **12.594** | **0.000** | **12.594** | **0.000** | **12.594** | **0.000** | **12.594** | **0.000** | **12.594** |
| **II** | **MONITORING** | | **1%** | **6.297** | 6.297 | **0.000** | **1.259** | **0.000** | **1.259** | **0.000** | **1.259** | **0.000** | **1.259** | **0.000** | **1.259** |
| **III** | **EVALUATION** | | **1%** | **6.297** | 6.297 | **0.000** | **1.259** | **0.000** | **1.259** | **0.000** | **1.259** | **0.000** | **1.259** | **0.000** | **1.259** |
| **TOTAL** | | | **12%** | **75.564** | **75.564** | | **15.113** | | **15.113** | | **15.113** | | **15.113** | | **15.113** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | | **4%** | **25.19** | 25.188 | **0.000** | **25.188** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** |
| **II** | **Instituion & CAPACITY BUILDING** | | **5%** | **31.49** | 31.485 | **0.000** | **18.891** | **0.000** | **5.667** | **0.000** | **3.778** | **0.000** | **1.574** | **0.000** | **1.574** |
| **III** | **Preparation of DETAILED PROJECT REPORT** | | **1%** | **6.30** | **6.297** | **0.000** | **6.297** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** |
| **TOTAL** | | | **10%** | **62.970** | **62.970** | | **50.376** | | **5.667** | | **3.778** | | **1.574** | | **1.574** |
| **VII** | **watershed Development works(NRM)** | | **60%** | **377.82** | | **10%** | **62.97** | **15%** | **94.455** | **15%** | **94.455** | **12%** | **75.564** | **08%** | **50.376** |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | Earthen Bund | | 1061 | 11280 | 119.681 | 163.000 | 18.386 | 288.000 | 32.486 | 275.00 | 31.020 | 215.00 | 24.252 | #VALUE! | 13.536 |
| (ii) | WHS (Tanka) | | 145 | 82000 | 118.900 | 19.000 | 15.580 | 38.000 | 31.160 | 40.000 | 32.800 | 38.00 | 31.160 | 10.000 | 8.200 |
| (iii) | Waste weir | | 56 | 14000 | 5.676 | 11.000 | 1.506 | 8.000 | 1.086 | 12.000 | 1.646 | 8.000 | 1.086 | 3.000 | 0.352 |
| (iv) | Gulley Control Structure Nallah Bunding | | 37 | 10600 | 4.710 | 9.000 | 1.348 | 7.000 | 1.136 | 8.000 | 0.848 | 8.000 | 0.848 | 5.000 | 0.530 |
| (v) | Farm Pond | | 49 | 50000 | 17.300 | 8.000 | 3.640 | 9.000 | 3.780 | 10.000 | 4.280 | 16.000 | 3.680 | 6.000 | 1.920 |
| **TOTAL** | | | | | **266.267** | | **40.460** | | **69.648** | | **70.594** | | **61.026** | | **24.538** |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | V Ditch for PD | | 30 | 13760 | 5.504 | 0.000 | 0.000 | 40.000 | 5.504 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (ii) | Staggered Contour Trenches for PD | | 10 | 11790 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (iii) | Dug out Pond | | 24 | 50000 | 14.000 | 8.000 | 4.000 | 6.000 | 3.000 | 7.000 | 3.500 | 3.000 | 1.500 | 4.000 | 2.000 |
| (iv) | WHS (Tanka) | | 26 | 82000 | 19.680 | 7.000 | 5.740 | 5.000 | 4.100 | 6.000 | 4.920 | 2.000 | 1.640 | 4.000 | 3.280 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| (v) | Nallah Bunding with ww | | 64 | 24600 | 16.482 | 11.000 | 2.706 | 18.000 | 4.428 | 23.000 | 5.658 | 13.000 | 3.198 | 2.000 | 0.492 |
| 3 | **DRAINAGE LINE TREATMENT** | | 5 | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (i) | LSCD 'A' | | 35 | 18700 | 6.919 | 10.000 | 1.870 | 6.000 | 1.122 | 10.000 | 1.870 | 7.000 | 1.309 | 4.000 | 0.748 |
| (ii) | LSCD 'B' | | 37 | 17200 | 6.536 | 9.000 | 1.548 | 9.000 | 1.548 | 8.000 | 1.376 | 6.000 | 1.032 | 6.000 | 1.032 |
| (iii) | LSCD 'C' | | 38 | 15800 | 6.162 | 9.000 | 1.422 | 10.000 | 1.580 | 7.000 | 1.106 | 6.000 | 0.948 | 7.000 | 1.106 |
| (iv) | LSCD 'D' | | 39 | 14400 | 6.192 | 10.000 | 1.440 | 7.000 | 1.008 | 12.000 | 1.728 | 8.000 | 1.152 | 6.000 | 0.864 |
| (v) | LSCD 'E' | | 43 | 13000 | 5.850 | 14.000 | 1.820 | 6.000 | 0.780 | 12.000 | 1.560 | 8.000 | 1.040 | 5.000 | 0.650 |
| (vi) | Masonry Check Dam | | 15 | | 24.228 | 2.000 | 1.964 | 0.000 | 1.738 | 0.000 | 2.145 | 1.000 | 2.719 | 3.000 | 15.662 |
| **TOTAL** | | | | | **377.820** | | **62.970** | | **94.456** | | **94.457** | | **75.564** | | **50.372** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | 15% | **94.455** | | | | | | | | | | | |
| | **For Arable Land** | | | | | | | | | | | | | | |
| 1 | Arable bund | | 761 | 320 | 3.395 | 171.000 | 0.547 | 212.000 | 0.678 | 261.000 | 0.835 | 207.000 | 0.662 | 210.000 | 0.672 |
| 2 | Agro Forestry | | 3495 | 73 | 3.178 | 634.000 | 0.463 | 826.000 | 0.603 | 961.000 | 0.702 | 841.000 | 0.614 | 1092.000 | 0.797 |
| 3 | Horticulture Plantation with fencing & Tanka | | 1258 | 29400 | 42.630 | 34.000 | 9.996 | 46.000 | 13.524 | 33.000 | 9.702 | 29.000 | 8.526 | 3.000 | 0.882 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 62 | 10000 | 1.900 | 2.000 | 0.200 | 5.000 | 0.500 | 5.000 | 0.500 | 2.000 | 0.200 | 5.000 | 0.500 |
| 5 | Vermi Compost | | 10 | 36000 | 3.240 | 3.000 | 1.080 | 1.000 | 0.360 | 2.000 | 0.720 | 2.000 | 0.720 | 1.000 | 0.360 |
| 6 | Crop Demonstration | | 59 | 2000 | 1.940 | 23.000 | 0.460 | 22.000 | 0.440 | 27.000 | 0.540 | 10.000 | 0.200 | 15.000 | 0.300 |
| 7 | Homested Kitchen Gerden | | 95 | 1000 | 0.950 | 23.000 | 0.230 | 24.000 | 0.240 | 10.000 | 0.100 | 23.000 | 0.230 | 15.000 | 0.150 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| 8 | Medicinal Plants | | 73 | 3000 | 1.590 | 8.000 | 0.240 | 8.000 | 0.240 | 12.000 | 0.360 | 18.000 | 0.540 | 7.000 | 0.210 |
| | **For Non-arable Land** | | | | | | | | | | | | | | |
| 1 | V Ditch for PD | | 30 | 2200 | 0.880 | 7.000 | 0.154 | 27.000 | 0.594 | 2.000 | 0.044 | 2.000 | 0.044 | 2.000 | 0.044 |
| 2 | Staggered Contour Trenches for PD | | 10 | 900 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 4 | Fencing of PD (by DCB) | | 30 | 0.000 | 12.585 | 10.000 | 0.000 | 30.000 | 10.068 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2.517 |
| 1 | **TOOLKIT, TRAINING & REVOLVING FUND OF SHG** | | 10 | | | | | | | | | | | | |
| (i) | KARIGER | | 12 | 26250 | 3.413 | 9.000 | 2.363 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 4.000 | 1.050 |
| (ii) | WHITEWASH & PENT | | 6 | 40500 | 2.025 | 0.000 | 0.000 | 2.000 | 0.810 | 0.000 | 0.000 | 0.000 | 0.000 | 3.000 | 1.215 |
| (iii) | TAILORING | | 3 | 67000 | 2.010 | 0.000 | 0.000 | 0.000 | 0.000 | 2.000 | 1.340 | 0.000 | 0.000 | 1.000 | 0.670 |
| (iv) | MASALA UDYOG | | 3 | 42200 | 1.688 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 4.000 | 1.688 |
| (v) | BICYCLE/MOBILE | | 4 | 34000 | 1.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2.000 | 0.680 | 1.000 | 0.340 |
| (vi) | KUMAHRI UDYOG | | 2 | 22000 | 0.660 | 0.000 | 0.000 | 0.000 | 0.000 | 3.000 | 0.660 | 0.000 | 0.000 | 0.000 | 0.000 |
| (vii) | ARI TARI UDYOG | | 4 | 50000 | 1.500 | 0.000 | 0.000 | 2.000 | 1.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1.000 | 0.500 |
| 2 | **LIVESTOCK MANAGEMENT** | | | | | | | | | | | | | | |
| (i.) | Animal Health Camp | | 14 | 20000 | 3.400 | 5.000 | 1.000 | 3.000 | 0.600 | 2.000 | 0.400 | 2.000 | 0.400 | 5.000 | 1.000 |
| (ii) | Vaccination | | 3 | | 2.700 | 0.000 | 0.600 | 0.000 | 0.600 | 0.000 | 0.500 | 0.000 | 0.500 | 0.000 | 0.500 |
| (iii) | Purchase of Bull / Pada | | 5 | 25000 | 1.250 | 0.000 | 0.000 | 3.000 | 0.750 | 1.000 | 0.250 | 1.000 | 0.250 | 0.000 | 0.000 |
| (iv) | A I | | 0 | | 2.501 | 0.000 | 1.050 | 0.000 | 0.575 | 0.000 | 0.200 | 0.000 | 0.360 | 0.000 | 0.316 |
| **TOTAL** | | | | | **94.455** | | **18.383** | | **31.582** | | **16.853** | | **13.926** | | **13.711** |
| **IX** | **CONSOLIDATION PHASE** | | **3%** | **18.891** | **18.891** | | | | | | | | **11.335** | | **7.556** |
| | **GRAND TOTAL** | | **100%** | | **629.700** | | **146.842** | | **146.819** | | **130.201** | | **117.512** | | **88.327** |

# CHAPTER V
## ANNUAL ACTION PLAN THROUGH CONVERGENCE

| | | | |
|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000/- Hac. |
| **District** | JALORE | **Geographical Area** | |
| **AGROCLIMATIC ZONE** | II B | **Effective Area** | 4198 |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 3313 |
| **CATEGORY OF WATERSH** | DESERT AREA | **Total Nonarable land** | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 479 |
| | | **2. Govt. / waste /OTHER LAND** | 406 |
| | | **TOTAL COST** | 629.70 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| **AI.** | **ADMINISTRATIVE COST** | **10%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **MONITORING** | **1%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **III** | **EVALUATION** | **1%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | **12%** | | **0.000** | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | **4%** | | **0.00** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | **5%** | | **0.00** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | **1%** | | **0.00** | **0.000** | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | **10%** | | **0.00** | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** |
| | **W/S WORK PHASE** | | | | | | | | | | | | | | |
| **VII** | **NRM** | | | | | | | | | | | | | | |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | Earthen Bund | | 500 | 78960 | 56.400 | 0 | 0.000 | 70 | 7.896 | 130 | 14.664 | 190 | 21.432 | 110 | 12.408 |
| (ii) | WHS (Tanka) | | 125 | 574000 | 102.500 | 0 | 0.000 | 65 | 53.300 | 60 | 49.200 | 0 | 0.000 | 0 | 0.000 |
| (iii) | Waste weir | | 70 | 98000 | 9.800 | 0 | 0.000 | 21 | 2.940 | 21 | 2.940 | 14 | 1.960 | 14 | 1.960 |
| (iv) | Gulley Control Structure Nallah Bunding | | 0 | 74200 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| (v) | Farm Pond | | 56 | 350000 | 28.000 | 0 | 0.000 | 14 | 7.000 | 14 | 7.000 | 14 | 7.000 | 14 | 7.000 |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | V Ditch for PD | | 0 | 96320 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (ii) | Staggered Contour Trenches for PD | | 0 | 82530 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iii) | Dug out Pond | | 21 | 350000 | 10.500 | 0 | 0.000 | 7 | 3.500 | 7 | 3.500 | 0 | 0.000 | 7 | 3.500 |
| (iv) | WHS (Tanka) | | 21 | 574000 | 17.220 | 0 | 0.000 | 7 | 5.740 | 7 | 5.740 | 0 | 0.000 | 7 | 5.740 |
| (v) | Nallah Bunding with ww | | 56 | 172200 | 13.776 | 0 | 0.000 | 14 | 3.444 | 14 | 3.444 | 14 | 3.444 | 14 | 3.444 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | | | | | | | | |
| (i) | LSCD 'A' | | 0 | 18700 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (ii) | LSCD 'B' | | 0 | 17200 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iii) | LSCD 'C' | | 0 | 15800 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iv) | LSCD 'D' | | 0 | 14400 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (v) | LSCD 'E' | | 0 | 13000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (vi) | Masonry Check Dam | | 0 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | #REF! |
| **TOTAL** | | | | | **238.196** | | **0.000** | | **83.820** | | **86.488** | | **33.836** | | **#REF!** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | | | | | | | | | | | | | |
| | **For Arable Land** | | | | | | | | | | | | | | |
| 1 | Arable bund | | 0 | 2240 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 2 | Agro Forestry | | 0 | 511 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 3 | Horticulture Plantation with fencing & Tanka | | 140 | 205800 | 41.160 | 0 | 0.000 | 35 | 10.290 | 35 | 10.290 | 35 | 10.290 | 35 | 10.290 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 21 | 70000 | 2.100 | 0 | 0.000 | 7 | 0.700 | 7 | 0.700 | 7 | 0.700 | 0 | 0.000 |
| 5 | Vermi Compost | | 0 | 252000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 6 | Crop Demonstration | | 0 | 14000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 7 | Homested Kitchen Gerden | | 0 | 7000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 8 | Medicinal Plants | | 0 | 21000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| | **For Non-arable Land** | | | | | | | | | | | | | | |
| 1 | V Ditch for PD | | 0 | 2200.000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| | | | | | | | | | | | | | | | |
| | **TOTAL** | | | | **43.260** | | **0.000** | | **10.990** | | **10.990** | | **10.990** | | **10.290** |
| | | | | | | | | | | | | | | | |
| | **GRAND TOTAL** | | | | **281.456** | | **0.000** | | **94.810** | | **97.478** | | **44.826** | | **#REF!** |

# VEGETATIVE EARTHEN BUND IN ARABLE LAND

## Abstract of Cost

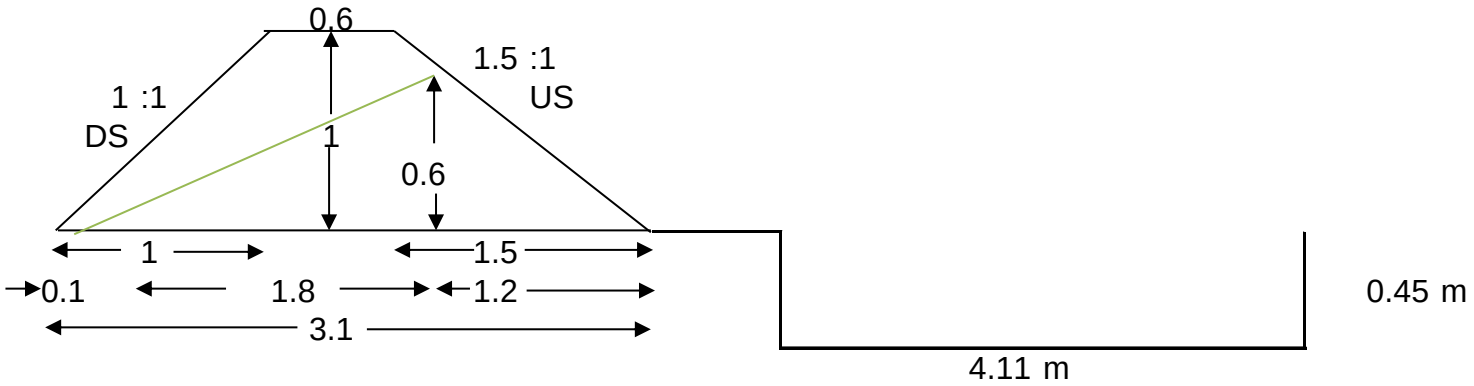
Total Area 500 ha
No. of Waste Weir 50

| Name of work | Conservation Measure | Production Measure | Total Cost |
|---|---|---|---|
| Earthen Bund | 5640000 | 160000 | 5800000 |
| Waste Weir | 700000 | 0 | 700000.00 |
| | 6340000 | 160000 | **6500000.00** |
| Say | | | 65.00 Lakh |

| | | | |
|---|---|---|---|
| Conservation Measure | | | 6340000.00 |
| Production Measure | | | 160000.00 |

# CROSS-SECTION OF VEGETATIVE BUND IN ARABLE LAND

Top width Based on seepage line check
Slope of seepage line 3:1




$$CS = \frac{(Tw+Bw)}{2} * Ht$$

CS = 1.85 Sq.m.

| | | |
|---|---|---|
| Average Cross section | 1.85 | Sq.m. |
| Length | 1.00 | m. |
| Quantity | 1.85 | Cu.m. |

# DESIGN OF VEGETATIVE BUND IN ARABLE LAND

V.I = 0.305 (XS+Y)

0.305(0.8 x 2+1.0)

V.I = 0.549

| | | |
|---|---|---|
| V.I | Vertical interval | |
| X= | Rain Fall Factor | 0.8 |
| Y= | Factor due to soil infiltration & Crop cover | 1 |
| S= | Percent slope | 1 |

$$He = \frac{(Re \times VI)^{1/2}}{(50)^{1/2}}$$

He= 0.6199 Say 0.60 m

| | | |
|---|---|---|
| He | Depth of impounding | |
| Re | 24Hour rainfall excess in Cms. for 10 year recurrence interval | 35 |
| V.I | Vertical interval | 0.549 |

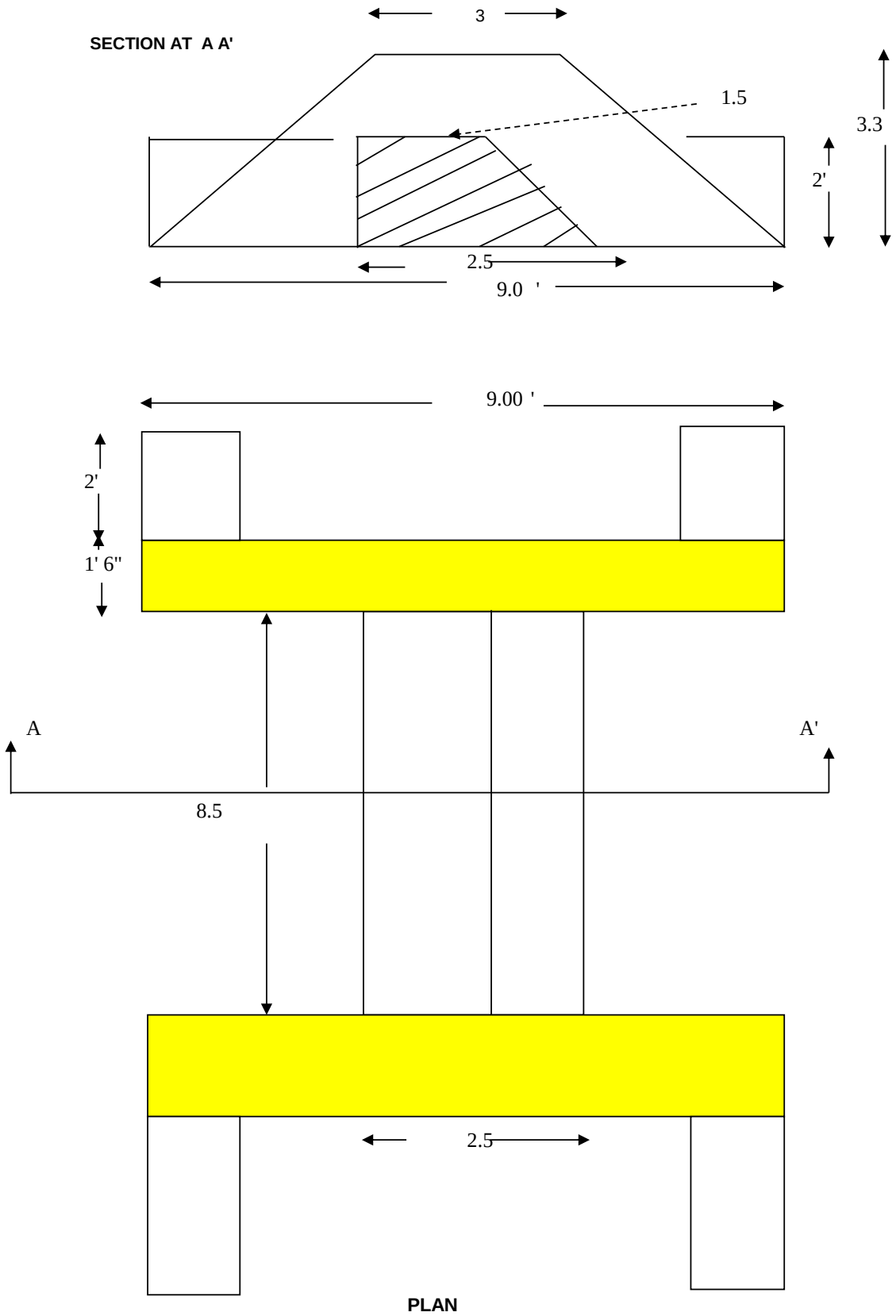
| | | | | | |
|---|---|---|---|---|---|
| Total Height of Bund | = | 0.6 | + 0.4 | 1.00 | m |
| Top width of Bund | = | | | 0.6 | m |
| Bottom width of Bund | = | | | 3.1 | m |

$$\text{Cross section of bund} = \frac{(\text{Top width of Bund} + \text{Bottom width of Bund})}{2} \times \text{Height}$$

$$\text{X Section} = \frac{(0.60+3.1)}{2} \times 1.00$$

X Section= 1.85 Sq.m.

## Drawing of Waste Weir




## Construction of Waste Weir

## Construction of Waste Weir

*DETAILS OF WORK AND ABSTRACT OF COST*

| S. No. | Item | No. | Detail | | | Quantity | | Unit | Rate | | Amount | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | L | B | D/H | Feet | Metre | | Lab | Total | Lab | Total |
| 1 | Excavation in hard soil ordinary muram 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 1.5 m including dressing etc. complete. | 2 | 9.5 | 2 | 2 | 76 | | | | | | |
| | | 2 | 2 | 2 | 2 | 16 | | | | | | |
| | | 1 | 8 | 2.5 | 2 | 40 | | | | | | |
| | | | | | | 0 | | | | | | |
| | | | | | | 0 | | | | | | |
| | | | | | | 132 | 3.7356 | cum. | 82.00 | 82.00 | 306.319 | 306.319 |
| 2 | Cement concrete well mixed in cement mortar ( 1 : 4 : 8 ) laid in position complete including curing.Aggregate size upto 50 mm, HB | 2 | 9.5 | 2 | 0.5 | 19 | | | | | | |
| | | 2 | 2 | 2 | 0.5 | 4 | | | | | | |
| | | 1 | 8 | 2.5 | 0.5 | 10 | | | | | | |
| | | | | | | 0 | | | | | | |
| | | | | | | 0 | | | | | | |
| | | | | | | 33 | 0.9339 | cum. | 255.05 | 1835.00 | 238.191 | 1713.71 |
| 3 | Random rubble stone masonary in cement sand mortar ( 1 : 6 )For foundation | 2 | 9.5 | 1.75 | 1.5 | 49.875 | | | | | | |
| | | 2 | 2 | 1.75 | 1.5 | 10.5 | | | | | | |
| | | 1 | 8 | 2.5 | 1.5 | 30 | | | | | | |
| | | | | | | 0 | | | | | | |
| | | | | | | 90.375 | 2.55761 | cum. | 437.50 | 1702.00 | 1118.96 | 4353.06 |
| 4 | Random rubble stone masonary in cement sand mortar ( 1 : 6 ) For superstructure<br>9 3 | 2 | 6 | 1.5 | 3.25 | 58.5 | | | | | | |
| | | 4 | 2 | 1.5 | 2 | 24 | | | | | | |
| | | 1 | 8.5 | 2 | 1 | 17 | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | 99.5 | 2.81585 | cum. | 630.50 | 1895.00 | 1775.39 | 5336.04 |
| 5 | Dry Stone kharanja (15 to 30 cm) Item 140 | 1 | 8.5 | 3 | 0.3 | 7.65 | | | | | | |
| | | | | | | 0 | | | | | | |
| | | | | | | 7.65 | 0.71069 | cum. | 183.00 | 968.00 | 130.055 | 687.943 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | Cement plaster including smooth finishing in cement mortar (1:6) 25 mm thick. | 2 | 13 | 1.5 | 1 | 39 | | | | | | |
| | | 4 | 2 | 1.5 | 1 | 12 | | | | | | |
| | | 1 | 8.5 | 1.5 | 1 | 12.75 | | | | | | |
| | | 1 | 8.5 | 1 | 1 | 8.5 | | | | | | |
| | | | | | | 72.25 | 6.71203 | sqm. | 71.15 | 132.00 | 477.561 | 885.987 |
| 7 | Ruled pointing in cement mortar (1:3) | 2 | 6 | 3.25 | 1 | 39 | | | | | | |
| | | 4 | 2 | 2 | 1 | 16 | 1.4864 | sqm. | | | | |
| | | 1 | 8.5 | 1.25 | 1 | 10.625 | | | | | | |
| | | | | | | 65.625 | 6.09656 | sqm. | 41.80 | 53.00 | 254.836 | 323.118 |
| | | | | | | | | | | | 4301.31 | 13606.2 |

| | Quantity | Rate | Amount |
|---|---|---|---|
| Skilled labour | 5.96 | 325 | 1937 |
| Unskilled labour | 14.64 | 135 | 1976 |
| Water | | | 388 |
| | | | 4301 |

Cement 2

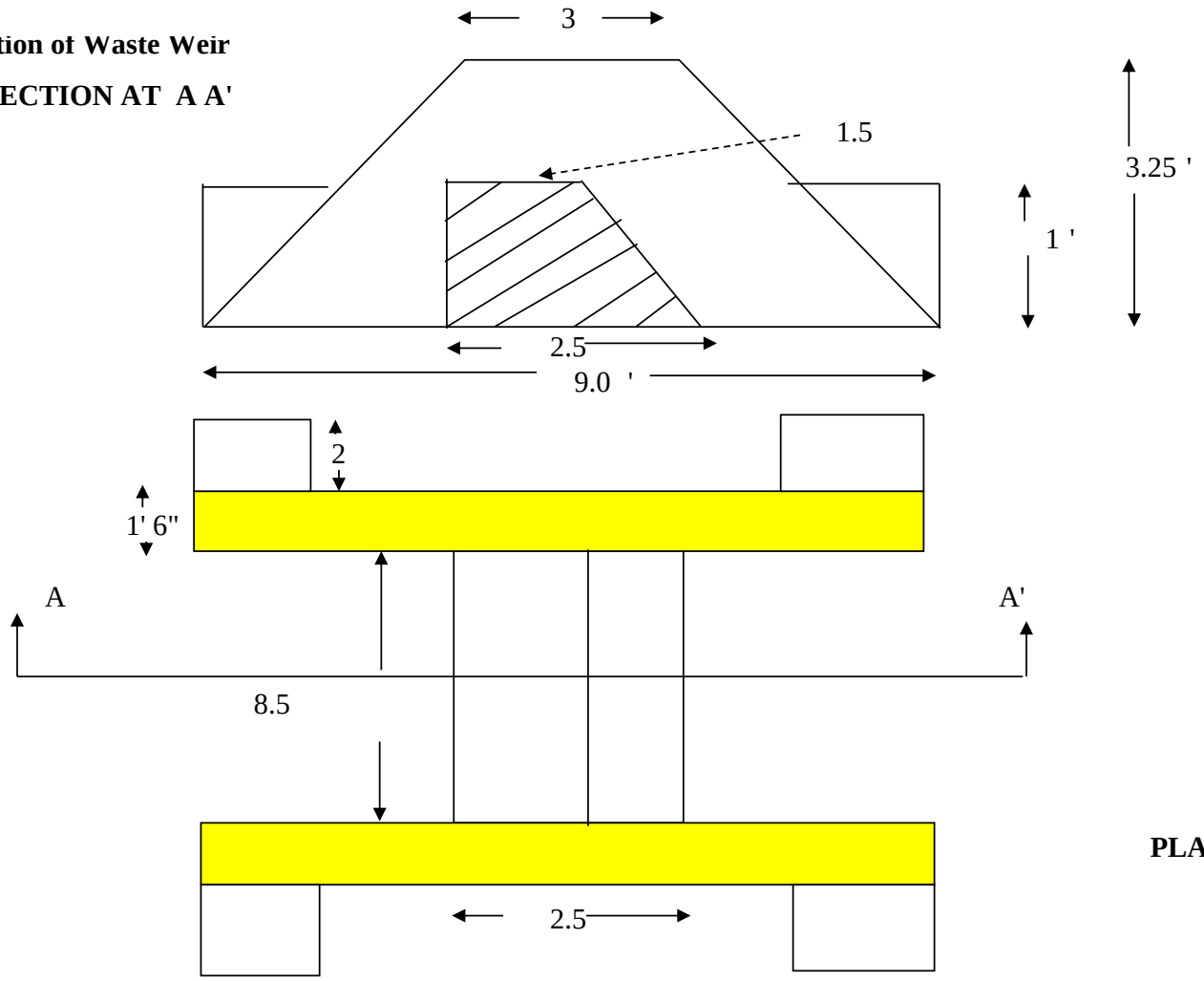
Cement 2

| Amount | | |
|---|---|---|
| Labour | A | 4301.31 |
| Material | B | 9304.85 |
| Total | C | 13606.2 |
| Add contingency | | 390 |
| Total (C+D) | | 13996.2 |
| | Say | **14000** |

| S. No | Material | Unit | | Quantity | Rate | Amount | | |
|---|---|---|---|---|---|---|---|---|
| 1 | Sand | | Cu.m. | 2.272080 | 380 | 863.39 | | |
| 2 | Stone Agg of 40 mm nominal size | | Cu.m. | 0.8 | 350 | 294.179 | | |
| 3 | Stone | | Cu.m. | 5.4 | 575 | 3089.74 | | |
| 4 | Cement | | Kg | 635.58 | 220 | 2796.56 | 12.712 | Bag |
| | | | | | | 7248.55 | | |
| | Other | | | | | 2056.3 | | |
| | | | Total | | | 9304.85 | | |

**Construction of Waste Weir**

**CROSS SECTION AT A A'**




**PLAN**

# ESTIMATE OF VEGETATIVE BUND IN ARABLE LAND

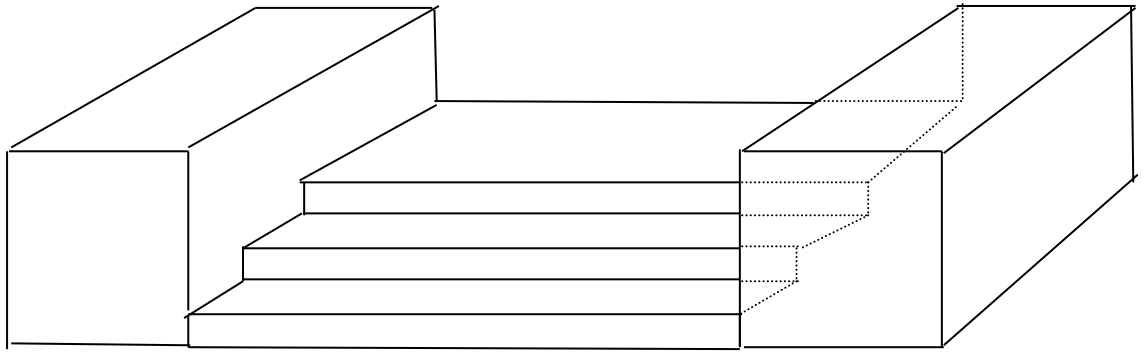
Estimate of One ha.

Length per ha. = 80 mtr

| S. no | Name of work | Item no. | No | Length | Width (TW+BW) /2 | Hight | Qty | Unit | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Earth work Excavation for making of bund, laying in layers of 15 cm, breaking of clods, sorting of grass pebbles, disposal of excavated material up to 1.5 mt Hight and lead up to 50 m including dressing and compaction | 135 c | 1 | 80 | 1.85 | 1 | 148.00 | Cum | 74.00 | 10952.00 |
| 2 | Sowing of seeds on the constructed bund in three rows | 114 | 3 | 80 | | | 240 | meter | 0.60 | 144.00 |
| 3 | Supply of Stylo/Dhaman seed @ 4 gm / m in three rows | CAZRI Rate | 3 | 80 | | | 0.96 | Kg | 150.00 | 144.00 |
| | | | | | | | | | | 11240.0 |
| | | | | | | | | | Add 3% contingency | 337.20 |
| | | | | | | | | | Total | 11577.2 |
| | | | | | | | | | Say | **11600.0** |

| | |
|---|---|
| Conservation Measure | 11280 |
| Production Measure | 320 |

# DESIGN OF LOOSE STONE CHECK DAM (LSCD)

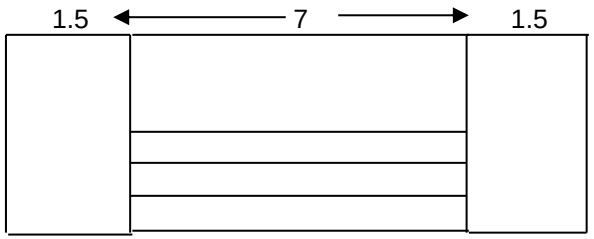


| Length of Head wall | No of Lscd | Per Unit Cost | Total Cost |
|---|---|---|---|
| 7 | 95 | 18700 | 1776500 |
| 6 | 140 | 17200 | 2408000 |
| 5 | 150 | 15800 | 2370000 |
| 4 | 150 | 14400 | 2160000 |
| 3 | 150 | 13000 | 1950000 |
| | 685 | | 10664500 |

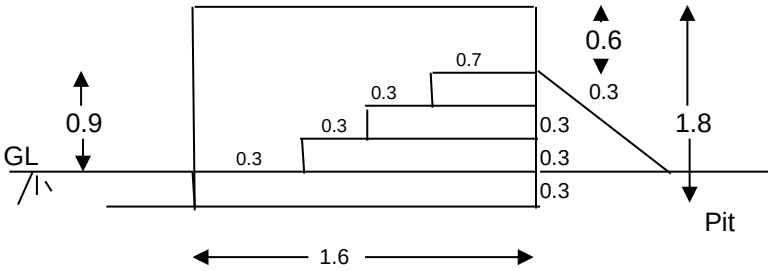
# ESTIMATE OF LOOSE STONE CHECK DAM (LSCD)

Head Wall Length = 7 m

Plan




Elevation

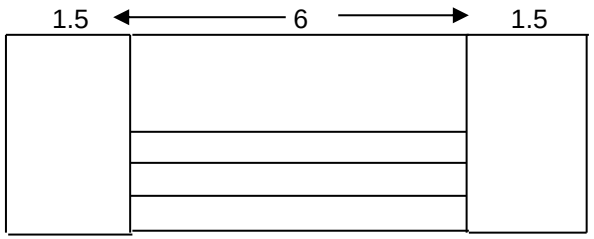



| S. no. | Name of work | Item no. | No | Length | Width | Height | Qty | rate | amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Earth work Excavation in hard soil up to 1.5 mt Height and deposited excavated material lead op to 150 | 2B | 1 | 7.0 | 1.6 | 0.3 | 3.4 | 82.0 | 275.5 |
| | | 2B | 2 | 1.5 | 1.6 | 0.3 | 1.4 | 82.0 | 118.1 |
| 2 | Dry stone masonry | 21B | 1 | 7.0 | 1.6 | 0.3 | 3.4 | | |
| | | | 1 | 7.0 | 1.3 | 0.3 | 2.7 | | |
| | | | 1 | 7.0 | 1.0 | 0.3 | 2.1 | | |
| | | | 1 | 7.0 | 0.7 | 0.3 | 1.5 | | |
| | | | 1 | 1.5 | 1.6 | 1.8 | 4.3 | | |
| | | | 1 | 1.5 | 1.6 | 1.8 | 4.3 | | |
| | | | | | | | 18.3 | 968.0 | 17714.4 |
| | | | | | | | | | **18108.0** |
| | | | | | | Add 3% Contingency | | | 543.2 |
| | | | | | | | Total | | **18651.2** |
| | | | | | | | Say | | **18700.0** |

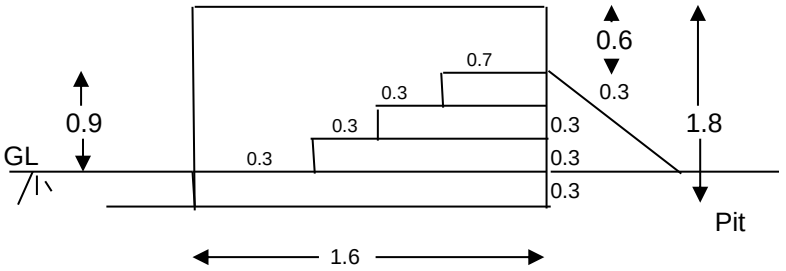
# ESTIMATE OF LOOSE STONE CHECK DAM (LSCD)

Head Wall Length = 6 m

Plan




Elevation

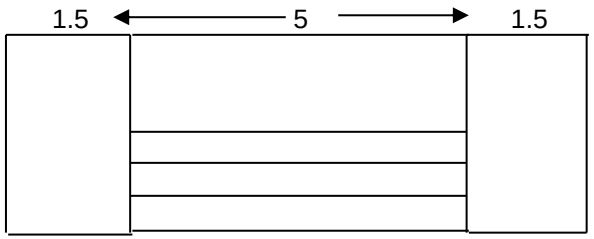



| S. no. | Name of work | Item no. | No | Length | Width | Height | Qty | rate | amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Earth work Excavation in hard soil up to 1.5 mt Height and deposited excavated material lead op to 150 | 2B | 1 | 6.0 | 1.6 | 0.3 | 2.9 | 82.0 | 236.2 |
| | | 2B | 2 | 1.5 | 1.6 | 0.3 | 1.4 | 82.0 | 118.1 |
| 2 | Dry stone masonry | 21B | 1 | 6.0 | 1.6 | 0.3 | 2.9 | | |
| | | | 1 | 6.0 | 1.3 | 0.3 | 2.3 | | |
| | | | 1 | 6.0 | 1.0 | 0.3 | 1.8 | | |
| | | | 1 | 6.0 | 0.7 | 0.3 | 1.3 | | |
| | | | 1 | 1.5 | 1.6 | 1.8 | 4.3 | | |
| | | | 1 | 1.5 | 1.6 | 1.8 | 4.3 | | |
| | | | | | | | 16.9 | 968.0 | 16378.6 |
| | | | | | | | | | **16732.8** |
| | | | | | | Add 3% Contingency | | | 502.0 |
| | | | | | | | | Total | **17234.8** |
| | | | | | | | | Say | **17200.0** |

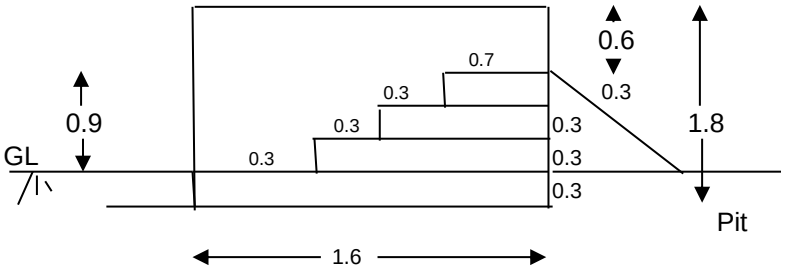
# ESTIMATE OF LOOSE STONE CHECK DAM (LSCD)

Head Wall Length = 5 m

Plan




Elevation

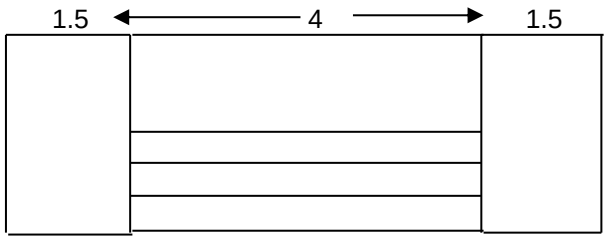



| S. no. | Name of work | Item no. | No | Length | Width | Height | Qty | rate | amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Earth work Excavation in hard soil up to 1.5 mt Height and deposited excavated material lead op to 150 | 2B | 1 | 5.0 | 1.6 | 0.3 | 2.4 | 82.0 | 196.8 |
| | | 2B | 2 | 1.5 | 1.6 | 0.3 | 1.4 | 82.0 | 118.1 |
| 2 | Dry stone masonry | 21B | 1 | 5.0 | 1.6 | 0.3 | 2.4 | | |
| | | | 1 | 5.0 | 1.3 | 0.3 | 2.0 | | |
| | | | 1 | 5.0 | 1.0 | 0.3 | 1.5 | | |
| | | | 1 | 5.0 | 0.7 | 0.3 | 1.1 | | |
| | | | 1 | 1.5 | 1.6 | 1.8 | 4.3 | | |
| | | | 1 | 1.5 | 1.6 | 1.8 | 4.3 | | |
| | | | | | | | 15.5 | 968.0 | 15042.7 |
| | | | | | | | | | **15357.6** |
| | | | | | | Add 3% Contingency | | | 460.7 |
| | | | | | | | Total | | **15818.3** |
| | | | | | | | Say | | **15800.0** |

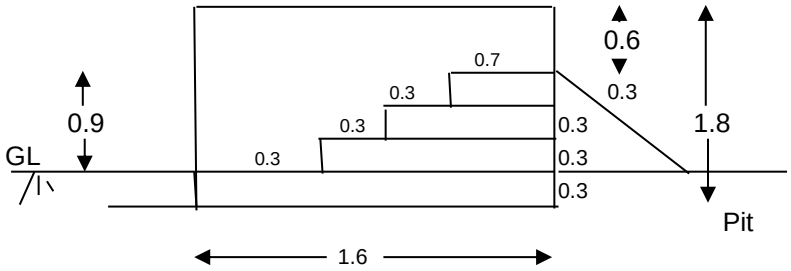
# ESTIMATE OF LOOSE STONE CHECK DAM (LSCD)

Head Wall Length = 4 m

Plan




Elevation

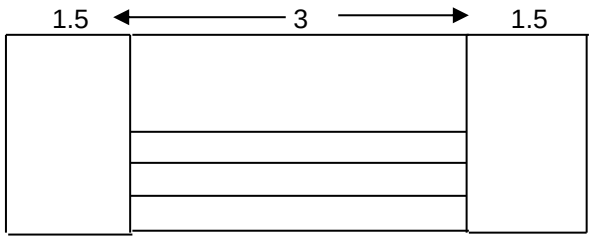



| S. no. | Name of work | Item no. | No | Length | Width | Height | Qty | rate | amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Earth work Excavation in hard soil up to 1.5 mt Height and deposited excavated material lead op to 150 | 2B | 1 | 4.0 | 1.6 | 0.3 | 1.9 | 82.0 | 157.4 |
| | | 2B | 2 | 1.5 | 1.6 | 0.3 | 1.4 | 82.0 | 118.1 |
| 2 | Dry stone masonry | 21B | 1 | 4.0 | 1.6 | 0.3 | 1.9 | | |
| | | | 1 | 4.0 | 1.3 | 0.3 | 1.6 | | |
| | | | 1 | 4.0 | 1.0 | 0.3 | 1.2 | | |
| | | | 1 | 4.0 | 0.7 | 0.3 | 0.8 | | |
| | | | 1 | 1.5 | 1.6 | 1.8 | 4.3 | | |
| | | | 1 | 1.5 | 1.6 | 1.8 | 4.3 | | |
| | | | | | | | 14.2 | 968.0 | 13706.9 |
| | | | | | | | | | **13982.4** |
| | | | | | | Add 3% Contingency | | | 419.5 |
| | | | | | | | | Total | **14401.9** |
| | | | | | | | | Say | **14400.0** |

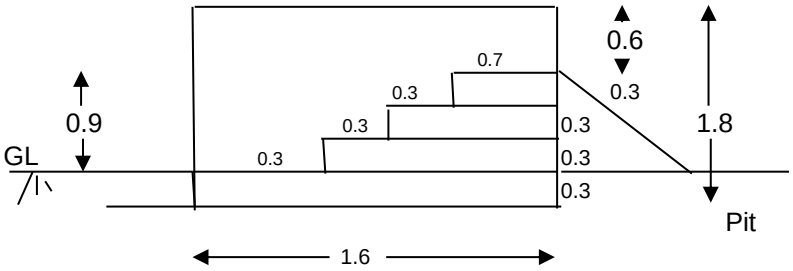
# ESTIMATE OF LOOSE STONE CHECK DAM (LSCD)

Head Wall Length = 3 m

Plan




Elevation




| S. no. | Name of work | Item no. | No | Length | Width | Height | Qty | rate | amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Earth work Excavation in hard soil up to 1.5 mt Height and deposited excavated material lead op to 150 | 2c | 1 | 3.0 | 1.6 | 0.3 | 1.4 | 82.0 | 118.1 |
| | | 2c | 2 | 1.5 | 1.6 | 0.3 | 1.4 | 82.0 | 118.1 |
| 2 | Dry stone masonry | 21c | 1 | 3.0 | 1.6 | 0.3 | 1.4 | | |
| | | | 1 | 3.0 | 1.3 | 0.3 | 1.2 | | |
| | | | 1 | 3.0 | 1.0 | 0.3 | 0.9 | | |
| | | | 1 | 3.0 | 0.7 | 0.3 | 0.6 | | |
| | | | 1 | 1.5 | 1.6 | 1.8 | 4.3 | | |
| | | | 1 | 1.5 | 1.6 | 1.8 | 4.3 | | |
| | | | | | | | 12.8 | 968.0 | 12371.0 |
| | | | | | | | | | **12607.2** |
| | | | | | | Add 3% Contingency | | | 378.2 |
| | | | | | | | | Total | **12985.4** |
| | | | | | | | | Say | **13000.0** |

# MODEL ESTIMATE OF NALLAH BUNDING

| S. no. | Name of work | Item no. | No | X Sec | Length | Depth | Qty | Unit | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Excavation of earth in dry or moist and disposal of excavated material within initial lead of 50 m and lift 1.5 m | | | | | | | | | |
| 1.1 | In Disintegrated rock | 2(l) | 1 | 4.84 | 13 | 1 | 62.89 | Cu.m. | 130.00 | 8175.38 |
| 2 | Stone Pitching 15-23 cm thick including supply of stones | 140 | 1 | 0.8 | 13 | 0.21 | 2.18 | Cu.m. | 968.00 | 2114.11 |
| | | | | | | | | | | 10289.49 |
| | | | | | | | | Add 3% contingency | | 308.7 |
| | | | | | | | | Total | | 10598.2 |
| | | | | | | | | Say | | **10600.0** |

# Silvi Pasture Development

## Abstract of Cost

V-Ditches

DCB Fencing

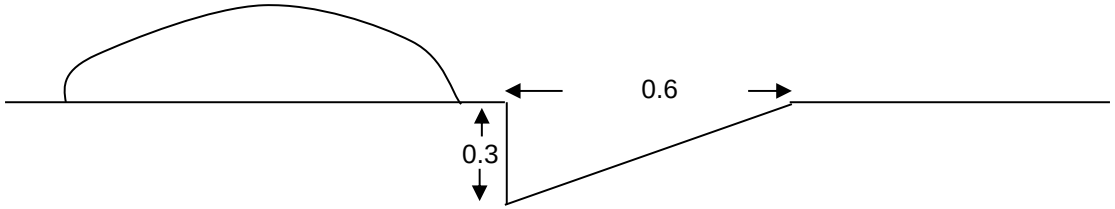
Area = 10 ha.

| Name of work | Conservation Measure | Production Measure | Total Cost |
|---|---|---|---|
| | | | |
| V. Ditch | 137600 | 22000 | 159600.00 |
| Plantation | 0 | 492400 | 492400.00 |
| Fencing DCB | 0 | 251700 | 251700.00 |
| Total | 137600 | 766100 | **903700.00** |
| Say | | | 9.04 Lakh |

# Estimate for V.Ditch in Pasture

| Area | Length | Width | Interval | No of row | Length |
|---|---|---|---|---|---|
| Ha | mtr | mtr | mtr | | mtr |
| 10 | 1000 | 100 | 6 | 167 | 16667 |

Dhaman require on V-ditch =0.002 kg/m 33 Kg
Spacing 5 mtr
Dhaman require between v-ditches =10 kg/ha 100 Kg




| S. no. | Name of work | Item no. | No | Length | Width | Height | Qty | Unit | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Jungal clearance | 107 | 1 | 250 | 50 | 1 | 12500 | Sqm | 1.7 | 21250 |
| 2 | Excavation in hard soil 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 1.5 m including dressing etc. complete. | 2(c) | 0.5 | 16667 | 0.60 | 0.3 | 1500.00 | Cum | 74.00 | 111000.0 |
| | | | Kg | | | | | | | |
| 3 | Making of balls of grass seed(1:1:2:2) 1 grass seed :1 FYM : 2 sand : 2 clay | 3/1/9 forest | 133 | | | | 133.00 | Per 6 kg material | 17.00 | 376.8 |
| 4 | Sowing of balls of grass seed by dibbling method at 30 cm spacing | 3/2/9 forest | 133 | | | | 133 | Per 6 kg material | 109.00 | 2416.2 |
| 5 | Cost of seed | | | CAZARI Jodhpur | | | 133 | Kg | 150.00 | 19950 |
| | | | | | | | | | | 154993.0 |
| | | | | | | | | Add 3% contingency | | 4649.8 |
| | | | | | | | | Total | | 159642.8 |
| | | | | | | | | Say | | **159600.0** |

| | |
|---|---|
| Conservation Measure | 137600.0 |
| Production Measure | 22000.0 |

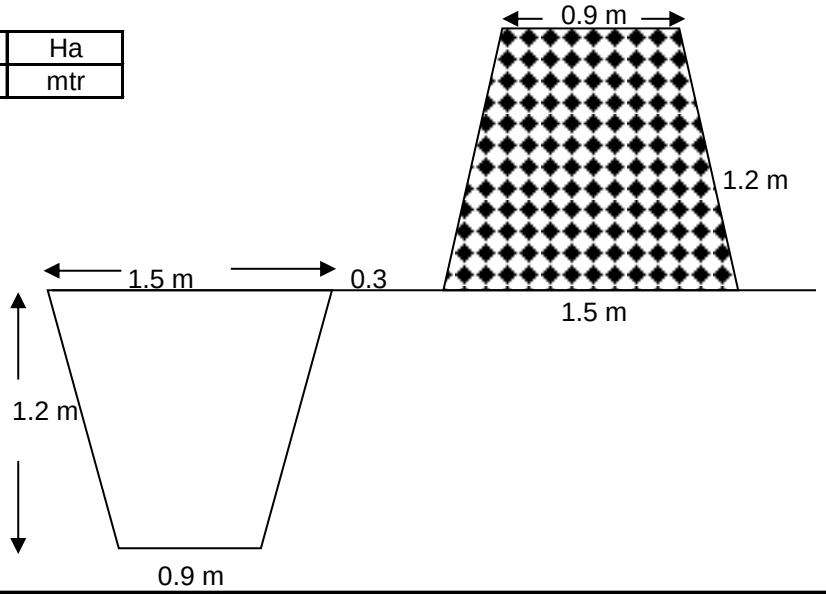
# Model estimate of Plantation Work in Pasture land

| | | | |
|---|---|---|---|
| **Plant to pant Spacing** | 4 m | **No of plant** | **4166.67** |
| **Row to row Spacing** | 6 m | **Gap filling 20%** | **833.333** |
| **Available Area** | **10** Ha | **Total no of Plants** | **5000** |

| S.No | Description | Item no | Total | | Length | Width | Height | Qty | Unit | Rate | Amount | (Amount for 10 ha.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Year | No./Year | | | | | | | | |
| 1 | Digging of pit( kankar boulder soil) | 128 ('C) | | 1 | 0.45 | 0.45 | 0.45 | 1 | No | 13.4 | 13.40 | 67000 |
| 2 | Cost of Plant | As per forest | | | | | | 1 | No. | 5 | 5.00 | 25000 |
| 3 | Planting of plant | 129(B) | | | | | | 1 | No. | 3.6 | 3.60 | 18000 |
| 4 | Making thavla | 133(A) | 2 | 1 | | | | 1 | No. | 2.4 | 4.80 | 24000 |
| 5 | Weeding & Hoeing | 132 | 3 | 1 | | | | 3 | No. | 1.2 | 3.60 | 18000 |
| 6 | Insecticide treatment | Market rate | 3 | | 0.03 ml | | | 0 | Ltr | 300 | 2.70 | 13500 |
| 7 | Watering of plants | 131 | 3 | 5 | | | | 15 | no | 1.8 | 27.00 | 135000 |
| 8 | Transportation of water 5 Km | 124 | 3 | 5 | | | | 225 | /1000Ltr | 29.9 | 6.73 | 33637.5 |
| 9 | Watch & ward | Minimum wages | 3 | 12 | | | | 36 | Month | 3240 | 23 | 116640 |
| 10 | Transportation of plants from nursery to planting site | LS | 1 | 1 | | | | 1 | | 1 | 1.00 | 5000 |
| 11 | Pruning of plants | forest bsr | 1 | 1 | | | | 1.00 | / plants | 0.89 | 0.89 | 4450 |
| 12 | Protection of plants from frost / loo using grass or other locally available material by making jhonpa of 0.6 m | | 1 | 1 | | | | 1.00 | / plants | 3.56 | 3.56 | 17800 |
| | TOTAL | | | | | | | | | | | **478028** |
| | | | | | | | | | Contingency 3% | | | 14341 |
| | | | | | | | | | Grand total | | | **492368** |
| | | | | | | | | | | | **Say** | **492400.0** |

# Estimate of Ditch Cum Bund Fencing

| | | |
|---|---|---|
| Area | 10 | Ha |
| Length | 1580 | mtr |




| S. no. | Name of work | Item no. | No | Length | Width | Hight | Qty | Unit | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Layout for DCB | | 2 | 1580 | 1 | 1 | 3160.00 | Cu.m. | 0.70 | 2212.00 |
| 2 | Excavation of earth in dry or moist and disposal of excavated material within initial lead of 50 m and lift 1.5 m | | | | | | | | | |
| 2.1 | In hard soil 50% | 2(2) | 1 | 790 | 1.2 | 1.2 | 1137.60 | Cu.m. | 82.00 | 93283.20 |
| 2.2 | In Disintegrated rock 50% | 2(3) | 1 | 790 | 1.2 | 1.2 | 1137.60 | Cu.m. | 130.00 | 147888.00 |
| 3 | Sowing of seed on ridge | 130 | 1 | 790 | 1 | 1 | 790.00 | Rm | 0.60 | 474.00 |
| | Cost of seeds | LS | | | | | 5.00 | Kg | 50.00 | 250.00 |
| | | | | | | | | | | 244107.20 |
| | | | | | | | | Add 3% contingency | | 7323.2 |
| | | | | | | | | Total | | 251680.4 |
| | | | | | | | | Say | | **251700.0** |

# Silvi Pasture Development Work

## Abstract of Cost

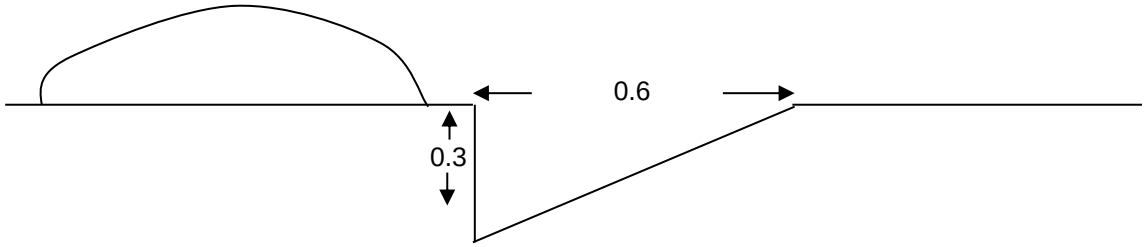
V-Ditches Area = 10 ha.
Stone wall Fencing

| Name of work | Conservation Measure | Production Measure | Total Cost |
|---|---|---|---|
| | | | |
| V. Ditch | 199400 | 2200 | 201600.00 |
| Agro Forestry | 0 | 494600 | 494600.00 |
| Fencing of Stone wall | 0 | 352700 | 352700.00 |
| Total | 199400 | 849500 | **1048900.00** |
| Say | | | 10.49 Lakh |

# Estimate of V.Ditch in Pasture Development

| Area | Length | Width | Interval | No of row | Length |
|---|---|---|---|---|---|
| Ha | mtr | mtr | mtr | | mtr |
| 10 | 1000 | 100 | 6 | 167 | 16667 |

| | | |
|---|---|---|
| Dhaman require on V-ditch =0.002 kg/m | 33 | Kg |
| Spacing | 5 | mtr |
| Dhaman require between v-ditches =10 kg/ha | 100 | Kg |




| S. no. | Name of work | Item no. | No | Length | Width | Hight | Qty | Unit | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Jungal clearance | 107 | 1 | 500 | 50 | 1 | 25000 | Sqm | 1.4 | 35000 |
| 2 | Excavation in hard soil 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 1.5 m including dressing etc. complete. | 2(B) | 0.5 | 16667 | 0.60 | 0.3 | 1500.00 | Cum | 92 | 138000.0 |
| | | | Kg | | | | | | | |
| 3 | Making of balls of grass seed(1:1:2:2) 1 grass seed :1 FYM : 2 sand : 2 clay | 3/1/9 forest | 133 | | | | 133.00 | Per 6 kg material | 17 | 376.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | Sowing of balls of grass seed by dibbling method at 30 cm spacing | 3/2/9 forest | 133 | | | | 133 | Per 6 kg material | 109 | 2416.2 |
| 5 | Cost of seed | | | CAZARI Jodhpur | | | 133 | Kg | 150 | 19950 |
| | | | | | | | | | | 195743.0 |
| | | | | | | | | Add 3% contingency | | 5872.3 |
| | | | | | | | | Total | | 201615.3 |
| | | | | | | | | Say | | **201600.0** |

| | |
|---|---|
| Conservation Measure | 199400 |
| Production Measure | 2200 |

# Model estimate of Plantation Work in Pasture land

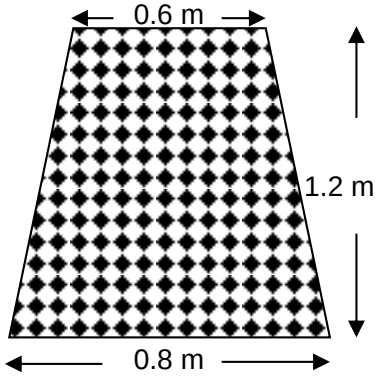
| | | | |
|---|---|---|---|
| **Plant to pant Spacing** | 4 m | **No of plant** | **4166.67** |
| **Row to row Spacing** | 6 m | **Gap filling 20%** | **833.33** |
| **Available Area** | **10** Ha | **Total no of Plants** | **5000** |

| S.No | Description | Item no | Total | | Length | Width | Height | Qty | Unit | Rate | Amount | (Amount for 10 ha.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Year | No./Year | | | | | | | | |
| 1 | Digging of pit( kankar boulder soil) | 112 ('C) | | 1 | 0.45 | 0.45 | 0.45 | 1 | No | 13.4 | 13.40 | 67000.00 |
| 2 | Cost of Plant | As per forest | | | | | | 1 | No. | 5 | 5.00 | 25000.00 |
| 3 | Planting of plant | 113(A) | | | | | | 1 | No. | 2.7 | 2.70 | 13500.00 |
| 4 | Making thavla | 117(A) | 2 | 1 | | | | 1 | No. | 2.4 | 4.80 | 24000.00 |
| 5 | Weeding & Hoeing | 116 | 3 | 1 | | | | 3 | No. | 1.2 | 3.60 | 18000.00 |
| 6 | Insecticide treatment | Market rate | 3 | | 0.03 ml | | | 0 | Ltr | 300 | 2.70 | 13500.00 |
| 7 | Watering of plants | 115 | 3 | 5 | | | | 15 | no | 1.8 | 27.00 | 135000.00 |
| 8 | Transportation of water 5 Km | 108 | 3 | 5 | | | | 225 | /1000Ltr | 35.8 | 8.06 | 40275.00 |
| 9 | Watch & ward | Minimum wages | 3 | 12 | | | | 36 | Month | 3240 | 23 | 116640.00 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | Transportation of plants from nursery to planting site | LS | 1 | 1 | | | | 1 | | 1 | 1.00 | 5000.00 |
| 11 | Pruning of plants | forest bsr | 1 | 1 | | | | 1.00 | / plants | 0.89 | 0.89 | 4450.00 |
| 12 | Protection of plants from frost / loo using grass or other locally available material by making jhonpa of 0.6 m dia. Of plant height and covering the plant. | | 1 | 1 | | | | 1.00 | / plants | 3.56 | 3.56 | 17800.00 |
| | TOTAL | | | | | | | | | | | 480165.00 |
| | | | | | | | | | Contingency 3% | | | 14404.95 |
| | | | | | | | | | Grand total | | | 494569.95 |
| | | | | | | | | | | | **Say** | **494600** |

# Estimate of Stone Wall Fencing

| | | |
|---|---|---|
| Area | 10 | Ha |
| Length | 1580 | mtr |




| S. no. | Name of work | Item no. | No | Length | Width | Hight | Qty | Unit | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Stone wall fencing Random rubble loose stone fencing | 111 | 1 | 1580 | 0.7 | 1.2 | 1327.2 | Cu.m. | 258 | 342417.6 |
| | | | | | | | | | | 342417.6 |
| | | | | | | | | Add 3% contingency | | 10272.5 |
| | | | | | | | | Total | | 352690.1 |
| | | | | | | | | Say | | **352700** |

# Abstract of cost of Tanka with Plantation work

**For General & OBC Category**

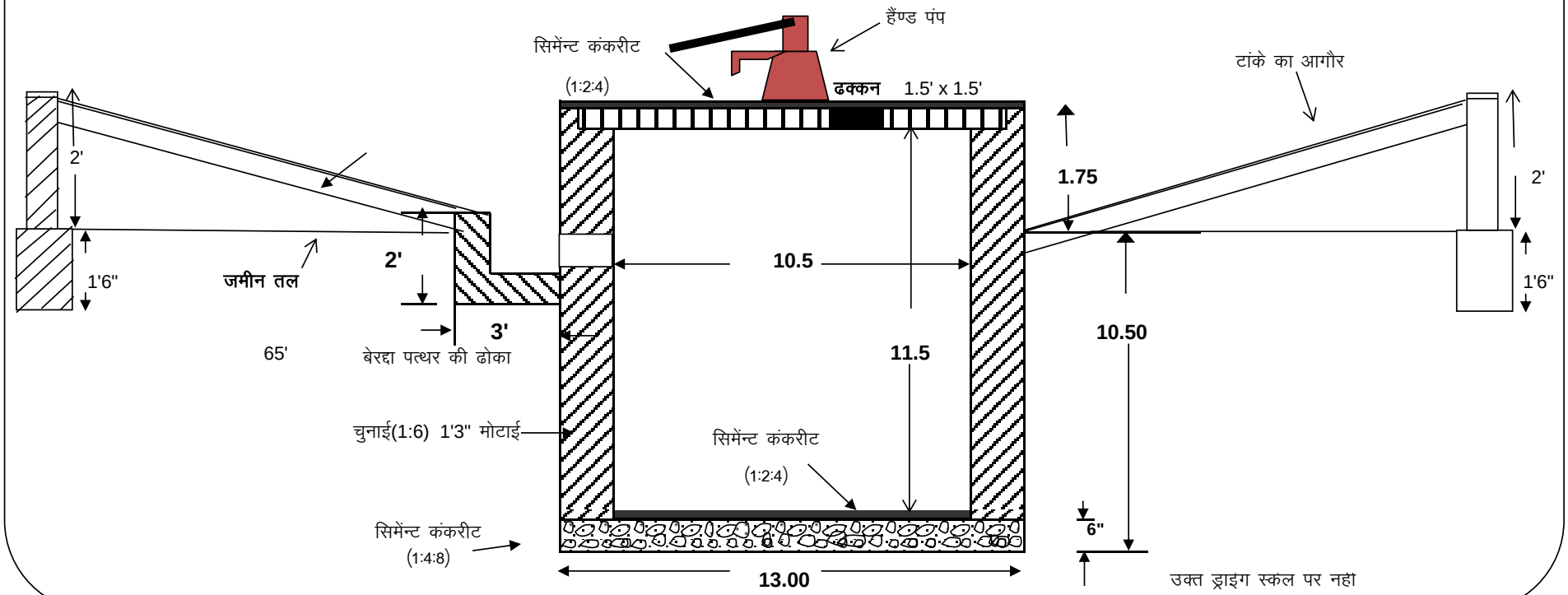
| Sr. no | Name of work | Estimated cost | Project | Contribution | Total | Measures |
|---|---|---|---|---|---|---|
| | | | 90% | 10% | | |
| 1 | Cost of tanka | #REF! | #REF! | #REF! | #REF! | Conservation measure for water harvesting |
| | | | 60% | 40% | | |
| 2 | Cost of Horticulture plantation | 10000 | 6000 | 4000 | 10000 | Production |
| 3 | Barbed Wire Fencing | 19400 | 11640 | 7760 | 19400 | Production |
| | Total 2+3 | 29400 | 17640 | 11760 | 29400 | |
| | **Total Cost of tanka unit** | **#REF!** | **#REF!** | **#REF!** | **#REF!** | |
| | ***No. of Farmers*** | | | | | |
| | ***1*** | ***#REF!*** | ***#REF!*** | ***#REF!*** | ***#REF!*** | |

**For SC/ST/ BPL**

| Sr. no | Name of work | Estimated cost | Project | Contribution | Total | Measures |
|---|---|---|---|---|---|---|
| | | | 95% | 5% | | |
| 1 | Cost of tanka | #REF! | #REF! | #REF! | #REF! | Conservation measure for water harvesting |
| | | | 80% | 20% | | |
| 2 | Cost of Horticulture plantation | 10000 | 8000 | 2000 | 10000 | Production |
| 3 | Barbed Wire Fencing | 19400 | 15520 | 3880 | 19400 | Production |
| | **Total 2+3** | 29400 | 23520 | 5880 | 29400 | |
| | **Total Cost of tanka unit** | **#REF!** | **#REF!** | **#REF!** | **#REF!** | |
| | ***No. of Farmers*** | | | | | |
| | ***1*** | ***#REF!*** | ***#REF!*** | ***#REF!*** | ***#REF!*** | |
| | | | | ***Total Cost*** | ***#REF!*** | |

| | | |
|---|---|---|
| **1** | **Conservation Measure** | **#REF!** |
| **2** | **Production Measure** | **58800** |
| **a** | **From project** | **41160** |
| **b** | **From Contribution** | **17640** |
| **3** | **Total Contribution** | **#REF!** |

# टॉके की ड्राईग


हैण्ड पंप
सिमेंन्ट कंकरीट
(1:2:4)
ढक्कन 1.5' x 1.5'
टांके का आगौर
2'
1.75
2'
1'6"
जमीन तल
2'
10.5
1'6"
3'
65'
बेरद्दा पत्थर की ढोका
11.5
10.50
चुनाई(1:6) 1'3" मोटाई
सिमेंन्ट कंकरीट
(1:2:4)
6"
सिमेंन्ट कंकरीट
(1:4:8)
13.00
उक्त ड्राइग स्कल पर नहा

# Model estimate Barbed wire fencing

Area 0.17 Ha

Length 164.9 mtr. Spacing 4 m
Say 165 mtr.
No of post As per length= Length/spacing 41.00
Additional post require after every 10 Posts 4
**45.00**

Length of Post 7.5 Feet 2.286 m
Width of post 1 Feet 0.3 m
Quantity of one post 0.686 Sq.m

| S.No | Description | Item no. | No | Length of single wire | Total length | Kg/mtr | Quantity | Unit | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Supply of barbed wire fencing 14 gauge | | 5 | 165 | 825 | 0.08 | 66 | Kg | 46 | 3036 |
| 2 | Supply of Jodhpur stone slab for post | | 45 | | | | 30.86 | Sq.m | 450 | 13887.45 |
| 3 | Rehandling of posts to pit | LS | 45 | | | | 45.00 | No | 15 | 675.00 |
| 4 | fixing of post in 45 cm. deep pit | 2B | 45 | 0.45 | 0.3 | 0.45 | 2.73 | Cum | 82 | 224.17 |
| 5 | Cost of binding wire | | | | | | 6 | Kg | 45 | 270.00 |
| 6 | Stretching of barbed wire and fixing it with the post with thin wire | 5.5/forest | | | | | 825 | mtr | 0.92 | 759 |
| 7 | interlacing the barbed wire with locally available bushy material at a spacing of 15 cms | 5.6/forest | | | 45 | | 45 | mtr | 5.48 | 246.6 |
| | | | | | | | | | | **18851.62** |

Add 3% contingency 565.55
**19417.17**
Say **19400.0**

# Design of Water Harvesting Structure (tanka)

| | |
|---|---|
| Collection of Water = Area * rainfall* 80% | Capacity as per Structural design |
| Catchment Area = $\pi/4 * D^2$ D= 11.70 | Cum= $\pi/4 * D_t^2$ * Hight |
| = 107.5 Sqm | $D_t$= Inner diameter of tanka |
| Rainfall = 0.3 Mtr | $D_t$= 3.2 3.2004 |
| | Hight = 3.20 |
| Collection of water = 25.79 Cum | |
| | 25.7261 Cum |
| Capacity Cum*1000 | Capacity Cum*1000 |
| = 25790 | = 25726.1 |

Hence rainfall on catchment area can fillup the tanka by water

| Production | | |
|---|---|---|
| Total capacity of tanka | 25726.1 | Ltr |
| Use of water for drinking purpose 40% | 10290.4 | Ltr |
| Available water for plantation 60% | 15435.7 | Ltr |
| One watering require | 15 | Ltr |
| No. of watering per Year | 20 | No |
| Total Ltr require per plant per year | 300 | Ltr |

No of plant can survive = Available water for Plantation/ water require per plant per year

= 51.45

say 50 plant

# Model estimate of Horticulture Plantation in Arable land

**Area-** **0.17** **Ha**

**No. of Plants -** **50**

| S. No | Description | Item No. | Total | | Length | Width | Height | Qty | Unit | Rate | Amount | Amount for 50 Plants |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Year | No./Year | | | | | | | | |
| 1 | Earth work Excavation in hard soil dry or moist and disposal of excavated meterial within initial lift of 1.5 mt height and lead of 50 metre.Digging of pit | 2(B) | | 1 | 0.6 | 0.6 | 0.6 | 1.00 | No. | 16.1 | 16.10 | 805.00 |
| 2 | Apply of manure | | | | | | | | | | | |
| | (A) Compost Khad | | | | | | | 5.00 | kg. | 0.4 | 2.00 | 100.00 |
| | (B) S.S.P. (16%) | | | | | | | 1.00 | kg. | 4 | 4.00 | 200.00 |
| | (C) Endosulphan (4%) | | | | 100 gm | | | 0.10 | kg. | 30 | 3.00 | 150.00 |
| 3 | Plant cost | LS | | 1 | | | | 1.00 | No | 20 | 20.00 | 1000.00 |
| 4 | Planting of plant | 113(B) | | | | | | 1.00 | No. | 3 | 3.00 | 150.00 |
| 5 | Watering of plants (15 litre) | 115 | 3 | 21 | | | | 63.00 | No. | 1.8 | 113.40 | 5670.00 |
| 6 | Making of Thawla atleast 50 cm radius | 117(B) | 2 | 1 | | | | 2.00 | No. | 1.8 | 3.60 | 180.00 |
| 7 | Weeding & hoeing of plants 45 cm radius and 15 cm deep | 116 | 3 | 1 | | | | 3.00 | No. | 1.2 | 3.60 | 180.00 |

| S. No | Description | Item No. | Total | | Length | Width | Height | Qty | Unit | Rate | Amount | Amount for 50 Plants |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Year | No./Year | | | | | | | | |
| 8 | Spray | | | | | | | | | | | |
| | (A) Endosulphan (35 ec) | | 3 | 0.01 | Ltr | | | 0.03 | Ltr. | 262 | 7.86 | 393.00 |
| | (B) Sulpher | | 3 | 0.02 | Kg | | | 0.06 | | 200 | 12.00 | 600.00 |
| 9 | Transportation of Plant from Jodhpur 70 km including loading and unloading | LS | | | | | | 1.00 | no | 2 | 3.00 | 150.00 |
| 10 | Protection of plants from frost / loo using grass or other locally available material by making jhonpa of 0.6 m dia. Of plant height and covering the plant. | Forest bsr | 1 | 1 | | | | 1.00 | no | 3.56 | 3.56 | 178.00 |
| | TOTAL | | | | | | | | | | **188.56** | **9756.00** |
| | | | | | | | | | | **Add 3% contingency** | | **292.68** |
| | | | | | | | | | | Total | | **10048.7** |
| | | | | | | | | | | | say | **10000.0** |

# MODEL ESTIMATE FOR A VERMI-COMPOST UNIT

| S. No. | Particulars | Quantity | Unit | Rate (Rs) | Amount (Rs) |
|---|---|---|---|---|---|
| 1 | Wooden Ballies (3 m long) | 20 | No. | 70 | 1400 |
| 2 | Wooden Ballies (4 m long) | 25 | No. | 80 | 2000 |
| 3 | Shade mats for covering the roof | 125 | Sq. m. | 40 | 5000 |
| 4 | Binding wire for tying wooden ballies and mats | 20 | Kg | 45 | 900 |
| 5 | Labour charges for erection of shades | 15 | No. | 135 | 2025 |
| 6 | Shovels, spades, crowbars, iron baskets | LS | | | 2000 |
| 7 | Weighing scale (100 Kg capacity) | 1 | No. | 2500 | 2500 |
| 8 | Cow dung | 10 | Ton | 1100 | 11000 |
| 9 | Worms @ 3 kg per ton | 30 | Kg | 100 | 3000 |
| 10 | Formation of vermi-bed with agro-waste, cow- | 20 | bed | 300 | 6000 |
| 11 | Miscellaneous | | | | 175 |
| | Total Cost | | | | 36000 |

| | |
|---|---|
| No. of Units | 25 |
| Cost for 25 Units | 900000 |

| Category | No. of Units | Contribution | Cost from project | Cost from project (per unit) |
|---|---|---|---|---|
| Gen, OBC | 20 | 288000 | 432000 | |
| SC ST | 5 | 36000 | 144000 | |
| Total | 25 | 324000 | 576000 | 23040 |

Returns from Vermi-compost units

## Benefits

| | | | | | |
|---|---|---|---|---|---|
| 1 | Sale of vermi-compost | 250 | Ton | 4000 | 1000000 |
| 2 | Sale of worms @ 5 kg per ton | 1250 | Kg | 50 | 62500 |
| | Total | | | | 1062500 |
| | Net benefit | 1062500 | - | 900000 | 162500 |

| | | | |
|---|---|---|---|
| **Name of Work** | Masonry Check Dam Badanwadi | | 4.15 |
| **Watershed** | IWMP JALORE II | | |
| **Scheme** | IWMP | | |
| **Panchayat Samiti** | JALORE | | |
| **District** | JALORE | | |
| **Micro w/s No.** | 1/4 | | |
| **Catchment Area** | 130 | Ha. | |
| **Non Arable Land** | 38 | Ha. | |
| **Arable Land** | 92 | Ha. | |
| **Forest Land** | 0 | Ha. | |
| **% Slope of Nallah** | 0.89 | | 0.8911 |
| **Max. Length of travel of water** | 2020 | mt. | |
| **Diff. Of Elev. Bet. Most remote pt.& outlet** | 18 | mt. | |
| **Maximum rainfall intensity** | 7 | cm/hr | |
| **Length of Anicut (Mt)** | 14 | mt. | |
| **Top Width of Anicut = 0.8** | 0.9 | mt. | |
| **Length of HWE(Calculated) = 3.59** | | | |
| **Length of HWE (LEFT)** | 6 | mt.(As per site condition) | |
| **Length of HWE (RIGHT)** | 5 | mt.(As per site condition) | |
| **Height of Head Wall** | 2 | | |

| | |
|---|---|
| OVER TURNING | It is more than 1.5, hence the structure is safe against overturning. |
| SLIDING | It is more than 1.0, so the structure is safe against sliding. |
| RUPTURE | This value is more than 1/3 and less than 2/3 of the base width, it means res through the middle third, so there is no chances of developing any tension i the structure is safe from rupture in tension. |
| Depth of Foundation(As per Site Condition) | 1.2 m |

| | Depth | Loose Soil | hard soil | Disint rock | Soft rock |
|---|---|---|---|---|---|
| **H. W.** | 1.2 | **0.2** | **0.2** | **0.5** | **0.3** |
| **H.W.E. (lleft)** | 3.7 | **0** | **0.2** | **0.5** | **3** |
| **H.W.E. (right)** | 3.7 | **0** | **0.2** | **0.5** | **3** |
| **S.W.** | >>> | **0** | **0.2** | **0.5** | **0.5** |
| **Wing wall** | >>> | **0** | **0.2** | **0.5** | **0.5** |
| **Toe wall** | >>> | **0.2** | **0.2** | **0.2** | **0.6** |
| **Apron 50 cm** | >>> | **0.2** | **0.2** | **0.1** | |
| **Cut off wall** | >>> | **0** | **0** | | |
| **Berm** | >>> | **0** | | | |

## MATERIAL COMPONENT

| | | |
|---|---|---|
| **CEMENT** | 285 | PER BAG |
| **SAND** | 390 | PER CU.M. |
| **AGGREEGATE 40 MM HG.** | 507 | PER CU.M. |
| **20 MM HG.** | 700 | PER CU.M. |
| **STONE** | 650 | PER CU.M. |

## RATE OF ITEMS

| | | |
|---|---|---|
| **Dag belling** | 0.25 | per m |
| **E/W for bund / Embankment** | 74 | per cu.m. |
| **Compaction** | 0 | per cu.m. |
| **Excavation in hard soil** | 71 | per cu.m. |
| **Excavation in ordinary murrum** | 82 | per cu.m. |
| **Excavation in compacted murrum** | 130 | per cu.m. |
| **Excavation in compacted kanti** | 178 | per cu.m. |
| **Excavation in hard rock blasted** | 160 | per cu.m. |
| **Cement concrete (1:4:8)** | 1835 | per cu.m. |
| **Masonary in foundation (1:6)** | 1702 | per cu.m. |
| **Masonary in Super structure (1:6)** | 1850 | per cu.m. |

| | | |
|---|---|---|
| **plaster (1:4)** | 152 | per Sq.m. |
| **Coping** | 218 | per Sq.m. |
| **Pointing** | 53 | per Sq.m. |
| **Kharanjha** | 1205 | per cu.m. |

| Item | Source | Katcha | Pucca | Total | Rate |
|---|---|---|---|---|---|
| Cement | | 5 | 55 | 60 | 312.45 |
| Sand | | 2 | 0 | 2 | 34.65 |
| Aggregate | | | | | |
| 50 mm | | 5 | 5 | 10 | 270 |
| 20 mm | | 5 | 5 | 10 | 270 |
| Stone | | 5 | 5 | 10 | 270 |

ultant is passing
n the masonary, hence

| Kanti |
| --- |
| |
| |
| |
| |
| |
| |
| |
| |
| |

/ Ton

/ Cu.m.

/ Cu.m.
/ Cu.m.

/ Cu.m.

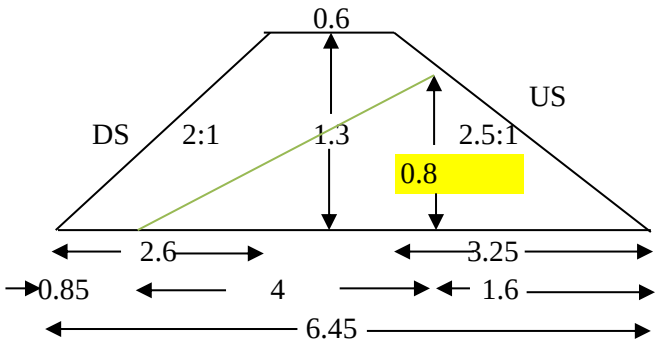
# Earthen bund

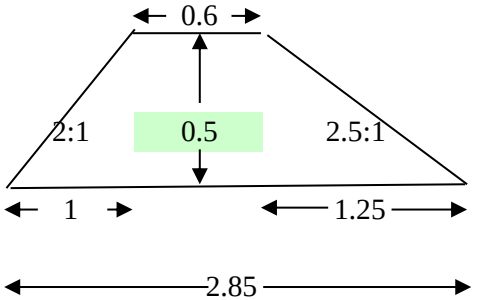
Name of work : Masonry Check Dam Badanwadi  Watershed : IWMP JALORE II

| | |
|---|---|
| Left | 25 |
| Right | 20 |

Maximum cross section  Minimum cross section

Top width = Based on seepage line check
Slope of seepage line 5:1




$$CS = \frac{(Tw+Bw)*Ht}{2}$$

CS = 3.525 Sq.m.

$$CS = \frac{(Tw+Bw)*Ht}{2}$$

CS = 1.725 Sq.m.

| | | |
|---|---|---|
| Average Cross section | 2.625 | Sq.m. |
| Length | 45 | m. |
| Quantity | 118.125 | Cu.m. |

# TECHNICAL NOTE

**Name of work : Masonry Check Dam Badanwadi** **Watershed : IWMP JALORE II**

**Block : JALORE** **District : JALORE** **Macro / Micro watershed No.** **1/4**

## A. Basic data :-

| | | | |
|---|---|---|---|
| 1. Catchment area | = | 130 | ha. |
| 2. Maximum rainfall intensity | = | 7 | cm/hr. |
| 3. General nature of catchment area : | | | |
| a. Agriculture land | = | 92 | ha. |
| b. Non arable land | = | 38 | ha. |
| c. Forest land | = | 0 | ha. |
| 4. Height of crest above G. L. | = | 2 | m |
| 5. Flood lift | = | 0.44 | m |
| 6. Free board | = | 0.15 | m |
| 7. Top width of head wall | = | 0.8 | m |
| 8. Bottom width of head wall | = | 2.5 | m |
| 9. Length of crest | = | 14 | m |
| 10. Percentage slope | = | 0.89 | % |
| 11. Submerged area of Anicut | = | 2.54 | ha. |
| 12. Storage capacity of Anicut | = | | ha. |
| 13. Wells benefited | = | 6 | Nos. |

| | | | | |
|---|---|---|---|---|
| 14. Farmers benefited | = | 8 | Nos. |
| 15. Area to be benifitted | = | 34 | ha. |

Catchment area is less than 1300 ha., so Rational formula is applicable.

Q = 0.0276*C*I*A

Where -

Q = Peak rate of runoff in Cu.m./sec

C = Weighted coefficient of runoff

I = Intensity of runoff in cm/hr. for a duration equal to time of concentration and for a given frequency.

A = Catchment area in ha.

Time of concentration Tc = 0.0195*(K)^0.77

Where -

K = (Lt)^1.5/(He)^0.5

Lt = maximum length of travel by runoff water in m.

He = Difference in elevation between most remote point and outlet point in m.

K = 21398.87

Tc = 0.0195*21398.87^0.77

= 42.11 minute I (for Tc = 42.11 min) = 8.1 cm/hr.

Q = 0.0276*0.24*8.1*130

= 6.98 Cumec.

**B. DEPTH OF FLOW OR FLOOD LIFT :-**

Q = 1.71*L*h^1.5

Therefore h^1.5 = Q/(1.71*L)

h^1.5 = 6.98/(1.71*14)

h = 0.44 m.

Taking free board as 0.15 m.

Total (d) = 0.59 m

## C. LENGTH OF OVER FLOW REQUIRED :-

L = 4.75*Q^0.5

= 4.75*^0.5

L = 12.55 m

But as per site condition consider length of head wall = 14 m

Height of head wall taken as per site plan = 2 m

Depth of Foundation from G. L. = 1.2 m

Total height of the structure, H = 3.79 m

## D. HEAD WALL

The up stream face is vertical and down stream face is slanted 0.8 : 1

| | | |
|---|---|---|
| Top width of head wall | = | h/{(p-1)}^0.5 |
| | = | 0.39 |
| (As per departmental practices | = | ((H+d)^0.5)/2 |
| | = | 0.8 |

Therefore min. top width is considered = 0.9 m

| | | | |
|---|---|---|---|
| Base width of Head wall (b) | | = | Top width + 0.8 * H |
| | | = | 0.9+0.8*2 |
| | | = | 2.5 m |

## E. HEAD WALL EXTENSION

| | | | |
|---|---|---|---|
| Length | | = | H+d+1 |
| | | = | 2+0.59+1 |
| | | = | 3.59 m |
| As per site condition left HWE | | = | 6 m |
| Right HWE | | = | 5 m |
| Width of HWE | | = | 0.6 m |
| Height of HWE | = H + d | = | 2+0.59 |
| | | = | 2.59 m |

## F. SIDE WALL

| | | | |
|---|---|---|---|
| Length | | = | b + H + d +Tw - Th. of HWE |
| | | = | 2.5+2.59+0.45-0.6 |
| | | = | 4.9 m |
| Width | = 0.6+0.4*(H+h) | = | 0.6+0.4*(2+0.44) |
| | | = | 1.58 m |
| Width at junction of w.w. | = 0.6+0.4*0.44 | | 0.78 m |
| Height | = H+d | = | 2+0.59 |
| | | = | 2.59 m |

## G. WING WALL

| | | | |
|---|---|---|---|
| Length | = 2.25*d | = | 2.25*0.59 |
| | | = | 1.33 m |
| Width | | = | 0.6 m |
| Height | = 1.5*d | = | 1.5*0.59 |
| | | = | 0.89 m |

## H. APRON

| | | | |
|---|---|---|---|
| Length | | = | 14 m |
| Width | 0.75*(H+d)+H | = | 0.75*(2+0.59)+2 |
| | | = | 2.59 m |
| Thickness | | = | 0.6 m |

(0.3 m concrete bed with 0.3 m stone kharanja in cement mortar (1 : 6)

## I. TOE WALL

| | | |
|---|---|---|
| Length | = | 14 m |
| Width (tw) | = | 0.45 m |
| Height | = | 0.3 m |

## J. CUT OFF WALL

| | | |
|---|---|---|
| Length | = | 14 m |
| Width | = | 0.6 m |

| | | |
|---|---|---|
| Depth | = | 1 m |

## K. DEPTH OF FOUNDATION

| | | |
|---|---|---|
| As per site condition Depth | = | 1.2 m |

| S. No. | Force | Vertical Forces (V) | Horizontal Forces (F) | Force acting at a distance from B. | Moment at B |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | W1=a*H*L*S<br>=0.9*2*2300<br>= 4140 | 4140 | | 2.05 | 8487 |
| 2 | W2=0.5*(b-a)*H*L*S<br>= 0.5*(2.5-0.9)*2*14*2300<br>= 1840 | 1840 | | 1.07 | 1968.8 |
| 3 | Fa = w*a*h<br>= 1000*0.9*0.44<br>= 396 | 396 | | 2.05 | 811.8 |
| 4 | P1=w*h*H<br>= 1000*0.44*2<br>= 880 | | 880 | 1 | -880 |
| 5 | P2=0.5*w*H^2<br>= 0.5*1000*(2)^2<br>= 2000 | | 2000 | 0.67 | -1340 |
| 6 | P3=(C*w*b*(H+h))/2<br>=(0.5*1000*2.5*(2+0.44))/2<br>= 1525 | -1525 | | 1.67 | -2546.75 |
| | TOTAL | 7505 | 2880 | | |

Restoring Moment (Mr) = 11267.6
Over turning Moment (Mo) = 4766.75
Resultant Moment (EM) = 6500.85

Where -

L = Length of Anicut (m)
S = Specific weight of masonary = 2300 Kg/Cu.m.
w = Specific weight of water = 1000 Kg/Cu.m.

## CHECKS :-

### (1.) OVERTURNING

Factor of safety against overturning

= Restoring Moment (Mr) / Overturning Moment (Mo)

= 11267.6/4766.75

= 2.363790843

It is more than 1.5, hence the structure is safe against overturning.

### (2.) SLIDING :-

Factor of safety against sliding = U*Sigma V / Sigma F

Where U is coefficient of sliding = 0.70

= 0.70*7505/2880

= 1.82

It is more than 1.0, so the structure is safe against sliding.

### (3.) RUPTURE :-

Position of resultant $\bar{X}$ = Sigma M / Sigma V

= 6500.85/7505

= 0.866 meter from B.

This value is more than 1/3 and less than 2/3 of the base width, it means resultant is passing through the middle third, so there is no chances of developing any tension in the masonary, hence the structure is safe from rupture in tension.

### (4.) SAFETY AGAINST COMPRESSION (CRUSHING)

Eccentricity e = b/2 -$\bar{X}$

Compressive stress at toe & heal respectively

$$P = \frac{\text{Sigma V}*[1+6*e/b]}{b}$$

P max = 7505*[1+6*0.384/2.5]/2.5 = 5768.64 Kg/Sq.m.

P min = 7505*[1-6*0.384/2.5]/2.5 = 235.36 Kg/Sq.m.

## DETAILS OF WORK

**Name of work : Masonry Check Dam Badanwadi** **Village : IWMP JALORE II**
**P. S. : JALORE** **District : JALORE**

| S.No. | Particular | Quantity | |
|---|---|---|---|
| ☆ | Dag belling ( 5 to 7.5 cm deep) | | |
| | | = 4*14 + 2*6 + 2*5 + 2*4.9 + 4*1.33= | **93.12** m. |
| ☆ | E /W for bund / embankment in dry or moist soil including laying in layers of 15 cm. Breaking of clods,sort ing of grass,pabbles etc and dressing in required profile when compacted manually or by plain roller with initial lead of 30 Mt. And lift of 1.5 Mt(excluding charges of .watering and compaction ) hard soil 55%(i.e.25.06) | | |
| | | | **118.125** Cu.m. |
| ☆ | Excavation in Loose soil dry or moist & disposal of excavated material within initial lead of 30 m and lift of 1.5 m including dressing etc. complete | | |
| | H. W. | = 14*2.5*0.2 | 7 |
| | H.W.E. (lleft) | = 6*0.75*0 | 0.9 |
| | H.W.E. (right) | = 5*0.75*0 | 0.75 |
| | S.W. | = 4.9*(1.58+0.78)*0.5*0 | 1.16 |
| | Wing wall | = 1.33*0.75*0 | 0.2 |
| | Toe wall | = 14*0.45*0.2 | 1.26 |
| | Apron | = 14*2.59*0.2 | 7.252 |
| | Cut off wall | = 20*0.75*0 | 3 |
| | | | **21.522** Cu.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Excavation in hard soil ordinary muram 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 1.5 m including dressing etc. complete. | | | |
| | H. W. | = | 14*2.5*0.2 | 490 |
| | H.W.E. (lleft) | = | 6*0.75*0.2 | 0.9 |
| | H.W.E. (right) | = | 5*0.75*0.2 | 0.75 |
| | S.W. | = | 4.9*(1.58+0.78)*0.5*0.2 | 1.16 |
| | Wing wall | = | 1.33*0.75*0.2 | 0.2 |
| | Toe wall | = | 14*0.45*0.2 | 1.26 |
| | Apron | = | 14*2.59*0.2 | 7.252 |
| | Cut off wall | = | 20*0.75*0 | 0 |
| | | | | **501.52** Cu.m. |
| ☆ | Excavation in disintegrated rock and or soft rock or hard kankar or compacted murrum, dry or moist including dresssing & disposal of excavated material with initial lead of 30 m and lift of 1.5 m | | | |
| | H. W. | = | 14*2.5*0.5 | 17.5 |
| | H.W.E. (lleft) | = | 6*0.75*0.5 | 2.25 |
| | H.W.E. (right) | = | 5*0.75*0.5 | 1.875 |
| | S.W. | = | 4.9*(1.58+0.78)*0.5*0.5 | 2.891 |
| | Wing wall | = | 1.33*0.75*0.5 | 0.49875 |
| | Toe wall | = | 14*0.45*0.2 | 1.26 |
| | Apron | = | 14*2.59*0.1 | 3.626 |
| | Cut off wall | = | 20*0.75*0 | 0 |
| | | | | **29.90075** Cu.m. |
| ☆ | Excavation in compacted kanti, or jhagia and or hard rock, dry or moist not requiring blasting including dressing & disposal of excavated material and stacking of useable stones with initial lead of 30 m & lift of 1.5 m | | | |

| | | | | |
|---|---|---|---|---|
| | H. W. | = | 14*2.5*0.3 | 10.5 |
| | H.W.E. (lleft) | = | 6*0.75*3 | 13.5 |
| | H.W.E. (right) | = | 6*0.75*3 | 11.25 |
| | S.W. | = | 4.9*(1.58+0.78)*0.5*0.5 | 2.891 |
| | Wing wall | = | 1.33*0.75*0.5 | 0.49875 |
| | Toe wall | = | 14*0.45*0.6 | 3.78 |
| | Apron | = | 14*2.59*0 | 0 |
| | Cut off wall | = | 14*2.59*0 | 0 |
| | | | | **42.41975** Cu.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Excavation in hard rock blasted (dry or moist) including dressing & disposal of excavated material and stacking of useable stones with initial lead of 30 m & lift of 1.5 m | | | |
| | H. W. | = | | |
| | H.W.E. (lleft) | = | | |
| | H.W.E. (right) | = | | |
| | S.W. | = | | |
| | Wing wall | = | | |
| | Toe wall | = | | |
| | Apron | = | | |
| | Cut off wall | = | | |
| | | | | Cu.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Cement concrete well mixed in cement mortar ( 1 : 4 : 8 ) laid in position complete including curing.Aggregate size upto 50 mm, HB | | | |
| | H. W. | = | 14*2.5*0.2 | 7 |
| | H.W.E. (lleft) | = | 6*0.75*0.2 | 0.9 |
| | H.W.E. (right) | = | 5*0.75*0.2 | 0.75 |
| | S.W. | = | 4.9*(1.58+0.78)*0.5*0.2 | 1.16 |
| | Wing wall | = | 1.33*0.75*0.2 | 0.2 |
| | Toe wall | = | 14*0.45*0.2 | 1.26 |
| | Apron | = | 14*2.59*0.2 | 7.25 |
| | Cut off wall | = | | |
| | | | | **18.52** Cu.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Random rubble stone masonary in cement sand mortar ( 1 : 6 )For foundation | | | |
| | H. W. | = | 14*2.5*1 | 35 |
| | H.W.E. (lleft) | = | 6*0.75*1 | 4.5 |
| | H.W.E. (right) | = | 5*0.75*1 | 3.75 |
| | S.W. | = | 4.9*(1.58+0.78)*0.5*1 | 11.56 |
| | Wing wall | = | 2*1.33*0.75*1 | 2 |
| | Toe wall | = | 14*0.45*1 | 6.3 |
| | Cut off wall | = | 20*0.75*1 | 15 |
| | | | | **78.11** Cu.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Random rubble stone masonary in cement sand mortar ( 1 : 6 ) For superstructure | | | |
| | H. W. | = | 14*(2.5+0.9)*0.5*2 | 47.6 |
| | H.W.E. (lleft) | = | 6*0.6*2.59 | 9.32 |
| | H.W.E. (right) | = | 5*0.6*2.59 | 7.77 |
| | S.W. | = | 4.9*[{(1.58+0.6)/2+(0.78+0.6)/2}/2]*(2.59+0.89)/2 | 7.59 |
| | Wing wall | = | 1.33*0.6*0.89 | 0.71 |
| | Toe wall | = | 14*0.45*0.3 | 1.89 |
| | | | | **74.88** Cu.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Stone kharanja in cement mortar (1 : 6) for bed floor including curring etc. complete | | | |
| | | | 14*2.59*0.3 | **10.88** Cu.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Cement plaster including smooth finishing in cement mortar (1:4) 25 mm thick. | | | |
| | H. W. | = | 14*2 | 28 |
| | H.W.E. (lleft) | = | 6*2.59 | 15.54 |
| | H.W.E. (right) | = | 5*2.59 | 12.95 |

| | | | | |
|---|---|---|---|---|
| | S.W. | = | 2 * {(0.9 * 0.59) + (0.59 + 2 + 0.59)/2*(2.5 - 0.9) + (2 + 0.59 + 0.89)/2*(2.59 + 0.45)} | 16.73 |
| | Wing wall | = | 1.33*0.89 | 1.18 |
| | Toe wall | = | 14*0.3 | 4.2 |
| | | | | **78.6** Sq.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Ruled pointing in cement mortar (1:3) | | | |
| | H. W. | = | 14*2.56 | **35.84** Sq.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Cement concrete coping in cement mortar 1 : 2 : 4 , 75 mm thick. | | | |
| | H. W. | = | 14*0.9 | 12.60 |
| | H.W.E. (lleft) | | 6*0.6 | 3.6 |
| | H.W.E. (right) | | 5*0.6 | 3 |
| | S.W. | | 2 * {( 0.6*(2.5 + 2.59 + 0.45)} | 6.65 |
| | Wing wall | | 1.33*0.60 | 0.8 |
| | Toe wall | | 14*0.45 | 6.3 |
| | | | | **32.95** Sq.m. |

## ABSTRACT OF COST

| S.No. | Item | Quantity | Rate | Amount |
|---|---|---|---|---|
| 1 | Dag belling ( 5 to 7.5 cm deep) | 93.12 | 0.25 / R m. | 23.28 |
| | E /W for bund / embankment in dry or moist soil including laying in layers of 15 cm. Breaking of clods,sort ing of grass,pabbles etc and dressing in required profile when compacted manually or by plain roller with initial lead of 30 Mt. And lift of 1.5 Mt(excluding charges of .watering and compaction ) hard soil | 118.125 | 74 / Cu.m. | 8741.25 |
| | Compaction of earth work on embankment by manual ramming or plain roller | 0 | 0 / Cu.m. | 0 |
| | Excavation in Loose soil dry or moist & disposal of excavated material within initial lead of 30 m and lift of 1.5 m including dressing etc. complete | 21.522 | 71 / Cu.m. | 1528.06 |
| | Excavation in hard soil ordinary muram 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 1.5 m including dressing etc. complete. | 501.52 | 82 / Cu.m. | 41124.64 |
| | Excavation in disintegrated rock and or soft rock or hard kankar or compacted murrum, dry or moist including dresssing & disposal of excavated material with initial lead of 30 m and lift of 1.5 m | 29.90075 | 130 / Cu.m. | 3887.1 |

| | | | | |
|---|---|---|---|---|
| | Excavation in compacted kanti, or jhagia and or hard rock, dry or moist not requiring blasting including dressing & disposal of excavated material and stacking of useable stones with initial lead of 30 m & lift of 1.5 m | 42.41975 | 178 / Cu.m. | 7550.72 |
| | Excavation in hard rock blasted (dry or moist) including dressing & disposal of excavated material and stacking of useable stones with initial lead of 30 m & lift of 1.5 m | 0 | 160 / Cu.m. | 0 |
| | Preparation of foundation of structure including removal of all loose stones and silt and final washing by manual labour. | 0 | / Cu.m. | 0 |
| | **C**ement concrete well mixed in cement mortar ( 1 : 4 : 8 ) laid in position complete including curing.Aggregate size upto 50 mm, HB | 18.52 | 1835 / Cu.m. | 33984.2 |
| | **R**andom rubble stone masonary in cement sand mortar ( 1 : 6 )For foundation | 78.11 | 1702 / Cu.m. | 132943.22 |
| | **R**andom rubble stone masonary in cement sand mortar ( 1 : 6 ) For superstructure | 74.88 | 1850 / Cu.m. | 138528 |
| | Stone kharanja in cement mortar (1 : 6) for bed floor including curring etc. complete | 10.88 | 1205 / Cu.m. | 13110.4 |

| | | | |
|---|---|---|---|
| Cement plaster including smooth finishing in cement mortar (1 : 4) 25 mm thick. | 78.6 | 152 / Sq.m. | 11947.2 |
| Ruled pointing in cement mortar (1 : 3) | 35.84 | 53 / Sq.m. | 1899.52 |
| Cement concrete coping in cement mortar 1 : 2 : 4 , 50 mm thick. | 32.95 | 218 / Sq.m. | 7183.1 |
| | | **Total Rs.** | **402450.69** |

## MATERIAL CONSUMPTION STATEMENT

Name of work : Masonry Check Dam Badanwadi  Name of Village : IWMP JALORE II

| S.No. | Particulars | Qty. | Cement (Bags) | Sand (Cu.m) | Aggregate | | Stone (Cu.m) |
|---|---|---|---|---|---|---|---|
| | | | | | 50 mm | 12 mm | |
| 1 | Cement concrete (1:4:8) Aggregate size upto 50 mm, HB. @ (3.2,0.45,0.9) | 18.52 Cu.m | 59.264 | 8.33 | 16.67 | | |
| 2 | R.R. Stone masonary (1:6) (Foundation / Superstructure. @(1.395,0.3,1.10) | 152.99 Cu.m | 213.42 | 45.9 | | | 168.29 |
| 3 | Cement plaster (1:4) 25 mm thick. @(0.224,0.032) | 78.6 Sq.m | 17.61 | 2.52 | | | |
| 4 | Raised & cut pointing @(0.028,0.003) | 35.84 Sq.m | 1 | 0.11 | | | |
| 5 | Stone kharanja in cement mortar (1:6) @(1.07,0.3,1.1) | 10.88 Cu.m | 11.64 | 3.26 | | | 11.97 |
| 6 | Cement concrete coping (1:2:4) 50 mm thick @(0.312,0.022,0.045) | 12.6 Sq.m | 3.93 | 0.28 | | 0.57 | |
| | **TOTAL** | | **306.864** | **60.4** | **16.67** | **0.57** | **180.26** |

**Say 307 Bags**

**Material Component :-**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | Cement | 307 | Bags | @ | 285 | Per Bag = Rs | 87495 |
| 2 | Sand | 60.4 | Cu.m. | @ | 390 | Per Cu.m = Rs | 23556 |
| 3 | Aggregate | | | | | | |
| | 50 mm | 16.67 | Cu.m. | @ | 507 | Per Cu.m = Rs | 8451.69 |
| | 12 mm | 0.57 | Cu.m. | @ | 700 | Per Cu.m = Rs | 399 |
| 4 | Stone | 180.26 | Cu.m. | @ | 650 | Per Cu.m = Rs | 117169 |

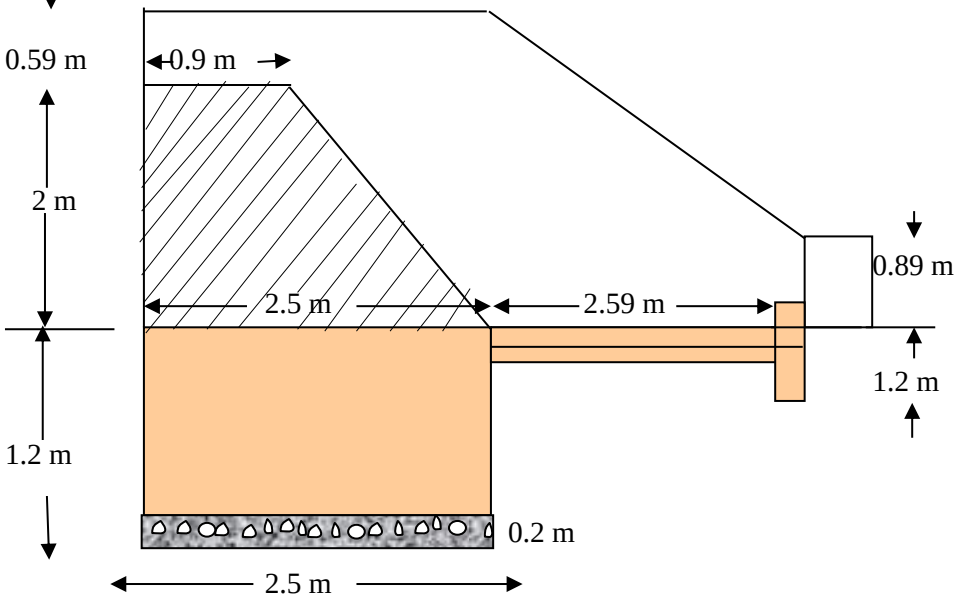
**Total Rs = 237070.69**

**EMPLOYMENT GENERATION**

| | | |
|---|---|---|
| Labour Component :- | Rs. | **165380** |
| | Total Rs. | **402450.69** |
| Contingency and Suoervision charges (@ 3%) | Rs. | **12073.52** |
| | **Grand Total Rs.=** | **414524.21** |
| | Say Rs | 4.15 Lakh |

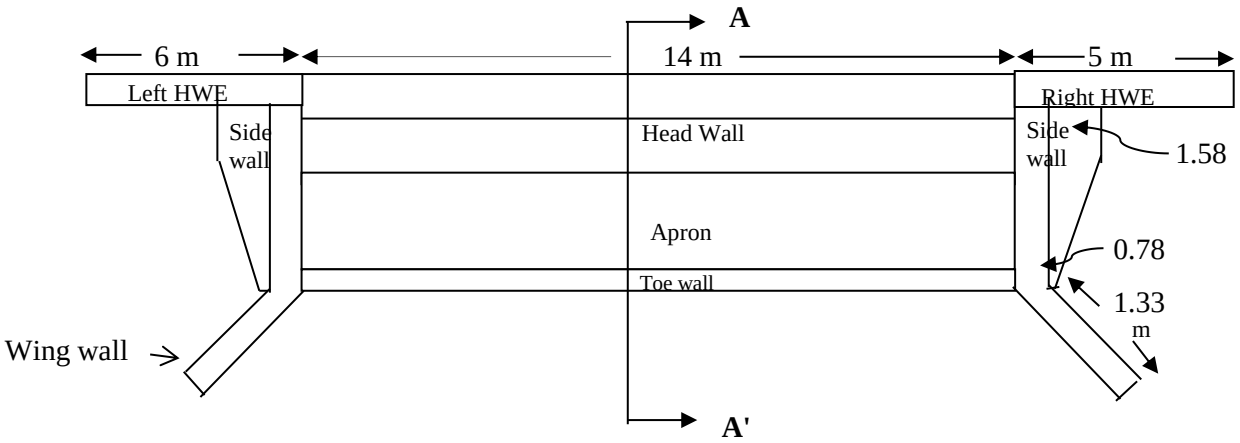
**Drawing of Anicut** **Village :- IWMP JALORE II**

**SIDE VIEW**




**Sec. at A A'**

**PLAN**



| | | | |
|---|---|---|---|
| **Name of Work** | Masonry Check Dam Godan | | 4.03 |
| **Watershed** | IWMP JALORE II | | |
| **Scheme** | IWMP | | |
| **Panchayat Samiti** | JALORE | | |
| **District** | JALORE | | |
| **Micro w/s No.** | 1/4 | | |
| **Catchment Area** | 133 | Ha. | |
| **Non Arable Land** | 37 | Ha. | |
| **Arable Land** | 96 | Ha. | |
| **Forest Land** | 0 | Ha. | |
| **% Slope of Nallah** | 1.9 | | 0.9906 |
| **Max. Length of travel of water** | 2120 | mt. | |
| **Diff. Of Elev. Bet. Most remote pt.& outlet** | 21 | mt. | |
| **Maximum rainfall intensity** | 7 | cm/hr | |
| **Length of Anicut (Mt)** | 13 | mt. | |
| **Top Width of Anicut = 0.8** | 0.9 | mt. | |
| **Length of HWE(Calculated) = 3.62** | | | |
| **Length of HWE (LEFT)** | 6 | mt.(As per site condition) | |
| **Length of HWE (RIGHT)** | 6 | mt.(As per site condition) | |
| **Height of Head Wall** | 2 | | |

| | |
|---|---|
| OVER TURNING | It is more than 1.5, hence the structure is safe against overturning. |
| SLIDING | It is more than 1.0, so the structure is safe against sliding. |
| RUPTURE | This value is more than 1/3 and less than 2/3 of the base width, it means res through the middle third, so there is no chances of developing any tension i the structure is safe from rupture in tension. |
| Depth of Foundation(As per Site Condition) | 1.2 m |

| | Depth | Loose Soil | hard soil | Disint rock | Soft rock |
|---|---|---|---|---|---|
| **H. W.** | 1.2 | **0.2** | **0.2** | **0.5** | **0.3** |
| **H.W.E. (lleft)** | 3.7 | **0** | **0.2** | **0.5** | **3** |
| **H.W.E. (right)** | 3.7 | **0** | **0.2** | **0.5** | **3** |
| **S.W.** | >>> | **0** | **0.2** | **0.5** | **0.5** |
| **Wing wall** | >>> | **0** | **0.2** | **0.5** | **0.5** |
| **Toe wall** | >>> | **0.2** | **0.2** | **0.2** | **0.6** |
| **Apron 50 cm** | >>> | **0.2** | **0.2** | **0.1** | |
| **Cut off wall** | >>> | **0** | **0** | | |
| **Berm** | >>> | **0** | | | |

## MATERIAL COMPONENT

| | | |
|---|---|---|
| **CEMENT** | 285 | PER BAG |
| **SAND** | 390 | PER CU.M. |
| **AGGREEGATE 40 MM HG.** | 507 | PER CU.M. |
| **20 MM HG.** | 700 | PER CU.M. |
| **STONE** | 650 | PER CU.M. |

## RATE OF ITEMS

| | | |
|---|---|---|
| **Dag belling** | 0.25 | per m |
| **E/W for bund / Embankment** | 74 | per cu.m. |
| **Compaction** | 0 | per cu.m. |
| **Excavation in hard soil** | 71 | per cu.m. |
| **Excavation in ordinary murrum** | 82 | per cu.m. |
| **Excavation in compacted murrum** | 130 | per cu.m. |
| **Excavation in compacted kanti** | 178 | per cu.m. |
| **Excavation in hard rock blasted** | 160 | per cu.m. |
| **Cement concrete (1:4:8)** | 1835 | per cu.m. |
| **Masonary in foundation (1:6)** | 1702 | per cu.m. |
| **Masonary in Super structure (1:6)** | 1850 | per cu.m. |

| | | |
|---|---|---|
| **plaster (1:4)** | 152 | per Sq.m. |
| **Coping** | 218 | per Sq.m. |
| **Pointing** | 53 | per Sq.m. |
| **Kharanjha** | 1205 | per cu.m. |

| Item | Source | Katcha | Pucca | Total | Rate |
|---|---|---|---|---|---|
| Cement | | 5 | 55 | 60 | 312.45 |
| Sand | | 2 | 0 | 2 | 34.65 |
| Aggregate | | | | | |
| 50 mm | | 5 | 5 | 10 | 270 |
| 20 mm | | 5 | 5 | 10 | 270 |
| Stone | | 5 | 5 | 10 | 270 |

ultant is passing
n the masonary, hence

| Kanti |
| --- |
| |
| |
| |
| |
| |
| |
| |
| |
| |

/ Ton

/ Cu.m.

/ Cu.m.
/ Cu.m.

/ Cu.m.

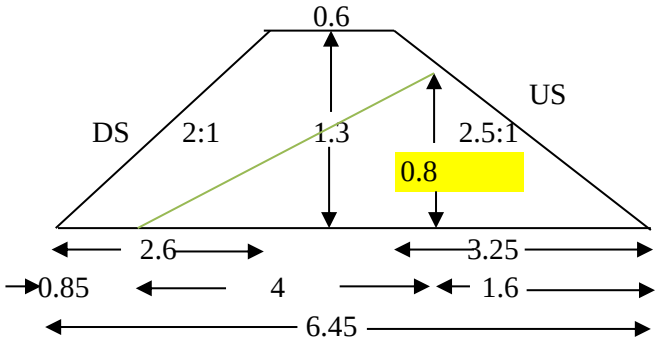
# Earthen bund

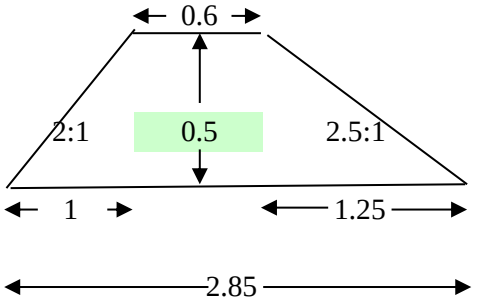
Name of work : Masonry Check Dam Godan  Watershed : IWMP JALORE II

| | |
|---|---|
| Left | 25 |
| Right | 30 |

Maximum cross section  Minimum cross section

Top width = Based on seepage line check
Slope of seepage line 5:1




$$CS = \frac{(Tw+Bw)\ *Ht}{2}$$

CS = 3.525 Sq.m.

$$CS = \frac{(Tw+Bw)\ *Ht}{2}$$

CS = 1.725 Sq.m.

| | | |
|---|---|---|
| Average Cross section | 2.625 | Sq.m. |
| Length | 55 | m. |
| Quantity | 144.375 | Cu.m. |

# TECHNICAL NOTE

**Name of work : Masonry Check Dam Godan** **Watershed : IWMP JALORE II**

**Block : JALORE** **District : JALORE** **Macro / Micro watershed No.** **1/4**

## A. Basic data :-

| | | | |
|---|---|---|---|
| 1. Catchment area | = | 133 | ha. |
| 2. Maximum rainfall intensity | = | 7 | cm/hr. |
| 3. General nature of catchment area : | | | |
| a. Agriculture land | = | 96 | ha. |
| b. Non arable land | = | 37 | ha. |
| c. Forest land | = | 0 | ha. |
| 4. Height of crest above G. L. | = | 2 | m |
| 5. Flood lift | = | 0.47 | m |
| 6. Free board | = | 0.15 | m |
| 7. Top width of head wall | = | 0.8 | m |
| 8. Bottom width of head wall | = | 2.5 | m |
| 9. Length of crest | = | 13 | m |
| 10. Percentage slope | = | 1.9 | % |
| 11. Submerged area of Anicut | = | 2.54 | ha. |
| 12. Storage capacity of Anicut | = | | ha. |
| 13. Wells benefited | = | 6 | Nos. |

| | | | | |
|---|---|---|---|---|
| 14. Farmers benefited | = | 8 | Nos. |
| 15. Area to be benifitted | = | 34 | ha. |

Catchment area is less than 1300 ha., so Rational formula is applicable.

Q = 0.0276*C*I*A

Where -

Q = Peak rate of runoff in Cu.m./sec

C = Weighted coefficient of runoff

I = Intensity of runoff in cm/hr. for a duration equal to time of concentration and for a given frequency.

A = Catchment area in ha.

Time of concentration Tc = 0.0195*(K)^0.77

Where -

K = (Lt)^1.5/(He)^0.5

Lt = maximum length of travel by runoff water in m.

He = Difference in elevation between most remote point and outlet point in m.

K = 21300.71

Tc = 0.0195*21300.71^0.77

= 41.97 minute I (for Tc = 41.97 min) = 8.1 cm/hr.

Q = 0.0276*0.24*8.1*133

= 7.14 Cumec.

**B. DEPTH OF FLOW OR FLOOD LIFT :-**

Q = 1.71*L*h^1.5

Therefore h^1.5 = Q/(1.71*L)

h^1.5 = 7.14/(1.71*13)

h = 0.47 m.

Taking free board as 0.15 m.

Total (d) = 0.62 m

## C. LENGTH OF OVER FLOW REQUIRED :-

L = 4.75*Q^0.5

= 4.75*^0.5

L = 12.69 m

But as per site condition consider length of head wall = 13 m

Height of head wall taken as per site plan = 2 m

Depth of Foundation from G. L. = 1.2 m

Total height of the structure, H = 3.82 m

## D. HEAD WALL

The up stream face is vertical and down stream face is slanted 0.8 : 1

| | | |
|---|---|---|
| Top width of head wall | = | h/{(p-1)}^0.5 |
| | = | 0.41 |
| (As per departmental practices | = | ((H+d)^0.5)/2 |
| | = | 0.81 |

Therefore min. top width is considered = 0.9 m

| | | | |
|---|---|---|---|
| Base width of Head wall (b) | | = | Top width + 0.8 * H |
| | | = | 0.9+0.8*2 |
| | | = | 2.5 m |

## E. HEAD WALL EXTENSION

| | | | |
|---|---|---|---|
| Length | | = | H+d+1 |
| | | = | 2+0.62+1 |
| | | = | 3.62 m |
| As per site condition left HWE | | = | 6 m |
| Right HWE | | = | 6 m |
| Width of HWE | | = | 0.6 m |
| Height of HWE | = H + d | = | 2+0.62 |
| | | = | 2.62 m |

## F. SIDE WALL

| | | | |
|---|---|---|---|
| Length | | = | b + H + d +Tw - Th. of HWE |
| | | = | 2.5+2.62+0.45-0.6 |
| | | = | 5 m |
| Width | = 0.6+0.4*(H+h) | = | 0.6+0.4*(2+0.47) |
| | | = | 1.59 m |
| Width at junction of w.w. | = 0.6+0.4*0.47 | | 0.79 m |
| Height | = H+d | = | 2+0.62 |
| | | = | 2.62 m |

## G. WING WALL

| | | | |
|---|---|---|---|
| Length | = 2.25*d | = | 2.25*0.62 |
| | | = | 1.4 m |
| Width | | = | 0.6 m |
| Height | = 1.5*d | = | 1.5*0.62 |
| | | = | 0.93 m |

## H. APRON

| | | | |
|---|---|---|---|
| Length | | = | 13 m |
| Width | 0.75*(H+d)+H | = | 0.75*(2+0.62)+2 |
| | | = | 2.62 m |
| Thickness | | = | 0.6 m |

(0.3 m concrete bed with 0.3 m stone kharanja in cement mortar (1 : 6)

## I. TOE WALL

| | | |
|---|---|---|
| Length | = | 13 m |
| Width (tw) | = | 0.45 m |
| Height | = | 0.3 m |

## J. CUT OFF WALL

| | | |
|---|---|---|
| Length | = | 13 m |
| Width | = | 0.6 m |

| | | |
|---|---|---|
| Depth | = | 1 m |

## K. DEPTH OF FOUNDATION

| | | |
|---|---|---|
| As per site condition Depth | = | 1.2 m |

| S. No. | Force | Vertical Forces (V) | Horizontal Forces (F) | Force acting at a distance from B. | Moment at B |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | W1=a*H*L*S<br>=0.9*2*2300<br>= 4140 | 4140 | | 2.05 | 8487 |
| 2 | W2=0.5*(b-a)*H*L*S<br>= 0.5*(2.5-0.9)*2*13*2300<br>= 1840 | 1840 | | 1.07 | 1968.8 |
| 3 | Fa = w*a*h<br>= 1000*0.9*0.47<br>= 423 | 423 | | 2.05 | 867.15 |
| 4 | P1=w*h*H<br>= 1000*0.47*2<br>= 940 | | 940 | 1 | -940 |
| 5 | P2=0.5*w*H^2<br>= 0.5*1000*(2)^2<br>= 2000 | | 2000 | 0.67 | -1340 |
| 6 | P3=(C*w*b*(H+h))/2<br>=(0.5*1000*2.5*(2+0.47))/2<br>= 1543.75 | -1543.75 | | 1.67 | -2578.0625 |
| | TOTAL | 7523.75 | 2940 | | |

Restoring Moment (Mr) = 11322.95
Over turning Moment (Mo) = 4858.06
Resultant Moment (EM) = 6464.89

Where -

L = Length of Anicut (m)
S = Specific weight of masonary = 2300 Kg/Cu.m.
w = Specific weight of water = 1000 Kg/Cu.m.

## CHECKS :-

### (1.) OVERTURNING

Factor of safety against overturning

= Restoring Moment (Mr) / Overturning Moment (Mo)

= 11322.95/4858.06

= 2.330755487

It is more than 1.5, hence the structure is safe against overturning.

### (2.) SLIDING :-

Factor of safety against sliding = U*Sigma V / Sigma F

Where U is coefficient of sliding = 0.70

= 0.70*7523.75/2940

= 1.79

It is more than 1.0, so the structure is safe against sliding.

### (3.) RUPTURE :-

Position of resultant $\bar{X}$ = Sigma M / Sigma V

= 6464.89/7523.75

= 0.859 meter from B.

This value is more than 1/3 and less than 2/3 of the base width, it means resultant is passing through the middle third, so there is no chances of developing any tension in the masonary, hence the structure is safe from rupture in tension.

### (4.) SAFETY AGAINST COMPRESSION (CRUSHING)

Eccentricity e = b/2 -$\bar{X}$

Compressive stress at toe & heal respectively

$$P = \frac{\text{Sigma V}*[1+6*e/b]}{b}$$

P max = 7523.75*[1+6*0.391/2.5]/2.5 = 5833.61 Kg/Sq.m.

P min = 7523.75*[1-6*0.391/2.5]/2.5 = 185.39 Kg/Sq.m.

## DETAILS OF WORK

**Name of work : Masonry Check Dam Godan** **Village : IWMP JALORE II**
**P. S. : JALORE** **District : JALORE**

| S.No. | Particular | | Quantity | |
|---|---|---|---|---|
| ☆ | Dag belling ( 5 to 7.5 cm deep) | | | |
| | | | = 4*13 + 2*6 + 2*6 + 2*5 + 4*1.4= | **91.6** m. |
| ☆ | E /W for bund / embankment in dry or moist soil including laying in layers of 15 cm. Breaking of clods,sort ing of grass,pabbles etc and dressing in required profile when compacted manually or by plain roller with initial lead of 30 Mt. And lift of 1.5 Mt(excluding charges of .watering and compaction ) hard soil 55%(i.e.25.06) | | | |
| | | | | **144.375** Cu.m. |
| ☆ | Excavation in Loose soil dry or moist & disposal of excavated material within initial lead of 30 m and lift of 1.5 m including dressing etc. complete | | | |
| | H. W. | = | 13*2.5*0.2 | 6.5 |
| | H.W.E. (lleft) | = | 6*0.75*0 | 0.9 |
| | H.W.E. (right) | = | 6*0.75*0 | 0.9 |
| | S.W. | = | 5*(1.59+0.79)*0.5*0 | 1.19 |
| | Wing wall | = | 1.4*0.75*0 | 0.21 |
| | Toe wall | = | 13*0.45*0.2 | 1.17 |
| | Apron | = | 13*2.62*0.2 | 6.812 |
| | Cut off wall | = | 20*0.75*0 | 3 |
| | | | | **20.682** Cu.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Excavation in hard soil ordinary muram 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 1.5 m including dressing etc. complete. | | | |
| | H. W. | = | 13*2.5*0.2 | 422.5 |
| | H.W.E. (lleft) | = | 6*0.75*0.2 | 0.9 |
| | H.W.E. (right) | = | 6*0.75*0.2 | 0.9 |
| | S.W. | = | 5*(1.59+0.79)*0.5*0.2 | 1.19 |
| | Wing wall | = | 1.4*0.75*0.2 | 0.21 |
| | Toe wall | = | 13*0.45*0.2 | 1.17 |
| | Apron | = | 13*2.62*0.2 | 6.812 |
| | Cut off wall | = | 20*0.75*0 | 0 |
| | | | | **433.68** Cu.m. |
| ☆ | Excavation in disintegrated rock and or soft rock or hard kankar or compacted murrum, dry or moist including dresssing & disposal of excavated material with initial lead of 30 m and lift of 1.5 m | | | |
| | H. W. | = | 13*2.5*0.5 | 16.25 |
| | H.W.E. (lleft) | = | 6*0.75*0.5 | 2.25 |
| | H.W.E. (right) | = | 6*0.75*0.5 | 2.25 |
| | S.W. | = | 5*(1.59+0.79)*0.5*0.5 | 2.975 |
| | Wing wall | = | 1.4*0.75*0.5 | 0.525 |
| | Toe wall | = | 13*0.45*0.2 | 1.17 |
| | Apron | = | 13*2.62*0.1 | 3.406 |
| | Cut off wall | = | 20*0.75*0 | 0 |
| | | | | **28.826** Cu.m. |
| ☆ | Excavation in compacted kanti, or jhagia and or hard rock, dry or moist not requiring blasting including dressing & disposal of excavated material and stacking of useable stones with initial lead of 30 m & lift of 1.5 m | | | |

| | | | | |
|---|---|---|---|---|
| | H. W. | = | 13*2.5*0.3 | 9.75 |
| | H.W.E. (lleft) | = | 6*0.75*3 | 13.5 |
| | H.W.E. (right) | = | 6*0.75*3 | 13.5 |
| | S.W. | = | 5*(1.59+0.79)*0.5*0.5 | 2.975 |
| | Wing wall | = | 1.4*0.75*0.5 | 0.525 |
| | Toe wall | = | 13*0.45*0.6 | 3.51 |
| | Apron | = | 13*2.62*0 | 0 |
| | Cut off wall | = | 13*2.62*0 | 0 |
| | | | | **43.76** Cu.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Excavation in hard rock blasted (dry or moist) including dressing & disposal of excavated material and stacking of useable stones with initial lead of 30 m & lift of 1.5 m | | | |
| | H. W. | = | | |
| | H.W.E. (lleft) | = | | |
| | H.W.E. (right) | = | | |
| | S.W. | = | | |
| | Wing wall | = | | |
| | Toe wall | = | | |
| | Apron | = | | |
| | Cut off wall | = | | |
| | | | | Cu.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Cement concrete well mixed in cement mortar ( 1 : 4 : 8 ) laid in position complete including curing.Aggregate size upto 50 mm, HB | | | |
| | H. W. | = | 13*2.5*0.2 | 6.5 |
| | H.W.E. (lleft) | = | 6*0.75*0.2 | 0.9 |
| | H.W.E. (right) | = | 6*0.75*0.2 | 0.9 |
| | S.W. | = | 5*(1.59+0.79)*0.5*0.2 | 1.19 |
| | Wing wall | = | 1.4*0.75*0.2 | 0.21 |
| | Toe wall | = | 13*0.45*0.2 | 1.17 |
| | Apron | = | 13*2.62*0.2 | 6.81 |
| | Cut off wall | = | | |
| | | | | **17.68** Cu.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Random rubble stone masonary in cement sand mortar ( 1 : 6 )For foundation | | | |
| | H. W. | = | 13*2.5*1 | 32.5 |
| | H.W.E. (lleft) | = | 6*0.75*1 | 4.5 |
| | H.W.E. (right) | = | 6*0.75*1 | 4.5 |
| | S.W. | = | 5*(1.59+0.79)*0.5*1 | 11.9 |
| | Wing wall | = | 2*1.4*0.75*1 | 2.1 |
| | Toe wall | = | 13*0.45*1 | 5.85 |
| | Cut off wall | = | 20*0.75*1 | 15 |
| | | | | **76.35** Cu.m. |
| ☆ | Random rubble stone masonary in cement sand mortar ( 1 : 6 ) For superstructure | | | |
| | H. W. | = | 13*(2.5+0.9)*0.5*2 | 44.2 |
| | H.W.E. (lleft) | = | 6*0.6*2.62 | 9.43 |
| | H.W.E. (right) | = | 6*0.6*2.62 | 9.43 |
| | S.W. | = | 5*[{(1.59+0.6)/2+(0.79+0.6)/2}/2]*(2.62+0.93)/2 | 7.94 |
| | Wing wall | = | 1.4*0.6*0.93 | 0.78 |
| | Toe wall | = | 13*0.45*0.3 | 1.76 |
| | | | | **73.54** Cu.m. |
| ☆ | Stone kharanja in cement mortar (1 : 6) for bed floor including curring etc. complete | | | |
| | | | 13*2.62*0.3 | **10.22** Cu.m. |
| ☆ | Cement plaster including smooth finishing in cement mortar (1:4) 25 mm thick. | | | |
| | H. W. | = | 13*2 | 26 |
| | H.W.E. (lleft) | = | 6*2.62 | 15.72 |
| | H.W.E. (right) | = | 6*2.62 | 15.72 |

| | | | | |
|---|---|---|---|---|
| | S.W. | = | 2 * {(0.9 * 0.62) + (0.62 + 2 + 0.62)/2*(2.5 - 0.9) + (2 + 0.62 + 0.93)/2*(2.62 + 0.45)} | 17.2 |
| | Wing wall | = | 1.4*0.93 | 1.3 |
| | Toe wall | = | 13*0.3 | 3.9 |
| | | | | **79.84** Sq.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Ruled pointing in cement mortar (1:3) | | | |
| | H. W. | = | 13*2.56 | **33.28** Sq.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Cement concrete coping in cement mortar 1 : 2 : 4 , 75 mm thick. | | | |
| | H. W. | = | 13*0.9 | 11.70 |
| | H.W.E. (lleft) | | 6*0.6 | 3.6 |
| | H.W.E. (right) | | 6*0.6 | 3.6 |
| | S.W. | | 2 * {( 0.6*(2.5 + 2.62 + 0.45)} | 6.68 |
| | Wing wall | | 1.4*0.60 | 0.84 |
| | Toe wall | | 13*0.45 | 5.85 |
| | | | | **32.27** Sq.m. |

## ABSTRACT OF COST

| S.No. | Item | Quantity | Rate | Amount |
|---|---|---|---|---|
| 1 | Dag belling ( 5 to 7.5 cm deep) | 91.6 | 0.25 / R m. | 22.9 |
| | E /W for bund / embankment in dry or moist soil including laying in layers of 15 cm. Breaking of clods,sort ing of grass,pabbles etc and dressing in required profile when compacted manually or by plain roller with initial lead of 30 Mt. And lift of 1.5 Mt(excluding charges of .watering and compaction ) hard soil | 144.375 | 74 / Cu.m. | 10683.75 |
| | Compaction of earth work on embankment by manual ramming or plain roller | 0 | 0 / Cu.m. | 0 |
| | Excavation in Loose soil dry or moist & disposal of excavated material within initial lead of 30 m and lift of 1.5 m including dressing etc. complete | 20.682 | 71 / Cu.m. | 1468.42 |
| | Excavation in hard soil ordinary muram 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 1.5 m including dressing etc. complete. | 433.68 | 82 / Cu.m. | 35561.76 |
| | Excavation in disintegrated rock and or soft rock or hard kankar or compacted murrum, dry or moist including dresssing & disposal of excavated material with initial lead of 30 m and lift of 1.5 m | 28.826 | 130 / Cu.m. | 3747.38 |

| | | | | |
|---|---|---|---|---|
| | Excavation in compacted kanti, or jhagia and or hard rock, dry or moist not requiring blasting including dressing & disposal of excavated material and stacking of useable stones with initial lead of 30 m & lift of 1.5 m | 43.76 | 178 / Cu.m. | 7789.28 |
| | Excavation in hard rock blasted (dry or moist) including dressing & disposal of excavated material and stacking of useable stones with initial lead of 30 m & lift of 1.5 m | 0 | 160 / Cu.m. | 0 |
| | Preparation of foundation of structure including removal of all loose stones and silt and final washing by manual labour. | 0 | / Cu.m. | 0 |
| | **C**ement concrete well mixed in cement mortar ( 1 : 4 : 8 ) laid in position complete including curing.Aggregate size upto 50 mm, HB | 17.68 | 1835 / Cu.m. | 32442.8 |
| | **R**andom rubble stone masonary in cement sand mortar ( 1 : 6 )For foundation | 76.35 | 1702 / Cu.m. | 129947.7 |
| | **R**andom rubble stone masonary in cement sand mortar ( 1 : 6 ) For superstructure | 73.54 | 1850 / Cu.m. | 136049 |
| | Stone kharanja in cement mortar (1 : 6) for bed floor including curring etc. complete | 10.22 | 1205 / Cu.m. | 12315.1 |

| | | | |
|---|---|---|---|
| Cement plaster including smooth finishing in cement mortar (1 : 4) 25 mm thick. | 79.84 | 152 / Sq.m. | 12135.68 |
| Ruled pointing in cement mortar (1 : 3) | 33.28 | 53 / Sq.m. | 1763.84 |
| Cement concrete coping in cement mortar 1 : 2 : 4 , 50 mm thick. | 32.27 | 218 / Sq.m. | 7034.86 |
| | | **Total Rs.** | **390962.47** |

## MATERIAL CONSUMPTION STATEMENT

Name of work : Masonry Check Dam Godan  Name of Village : IWMP JALORE II

| S.No. | Particulars | Qty. | Cement (Bags) | Sand (Cu.m) | Aggregate | | Stone (Cu.m) |
|---|---|---|---|---|---|---|---|
| | | | | | 50 mm | 12 mm | |
| 1 | Cement concrete (1:4:8) Aggregate size upto 50 mm, HB. @ (3.2,0.45,0.9) | 17.68 Cu.m | 56.576 | 7.96 | 15.91 | | |
| 2 | R.R. Stone masonary (1:6) (Foundation / Superstructure. @(1.395,0.3,1.10) | 149.89 Cu.m | 209.1 | 44.97 | | | 164.88 |
| 3 | Cement plaster (1:4) 25 mm thick. @(0.224,0.032) | 79.84 Sq.m | 17.88 | 2.55 | | | |
| 4 | Raised & cut pointing @(0.028,0.003) | 33.28 Sq.m | 0.93 | 0.1 | | | |
| 5 | Stone kharanja in cement mortar (1:6) @(1.07,0.3,1.1) | 10.22 Cu.m | 10.94 | 3.07 | | | 11.24 |
| 6 | Cement concrete coping (1:2:4) 50 mm thick @(0.312,0.022,0.045) | 11.7 Sq.m | 3.65 | 0.26 | | 0.53 | |
| | **TOTAL** | | **299.076** | **58.91** | **15.91** | **0.53** | **176.12** |

**Say 299 Bags**

**Material Component :-**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | Cement | 299 | Bags | @ | 285 | Per Bag = Rs | 85215 |
| 2 | Sand | 58.91 | Cu.m. | @ | 390 | Per Cu.m = Rs | 22974.9 |
| 3 | Aggregate | | | | | | |
| | 50 mm | 15.91 | Cu.m. | @ | 507 | Per Cu.m = Rs | 8066.37 |
| | 12 mm | 0.53 | Cu.m. | @ | 700 | Per Cu.m = Rs | 371 |
| 4 | Stone | 176.12 | Cu.m. | @ | 650 | Per Cu.m = Rs | 114478 |

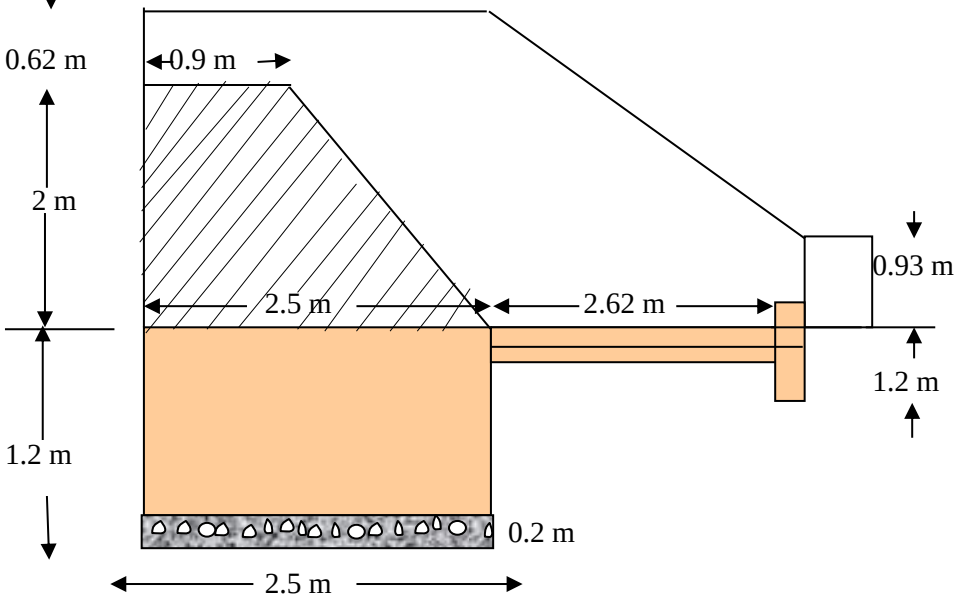
**Total Rs = 231105.27**

**EMPLOYMENT GENERATION**

| | | |
|---|---|---|
| Labour Component :- | Rs. | **159857.2** |
| | Total Rs. | **390962.47** |
| Contingency and Suoervision charges (@ 3%) | Rs. | **11728.87** |
| | **Grand Total Rs.=** | **402691.34** |
| | Say Rs | 4.03 Lakh |

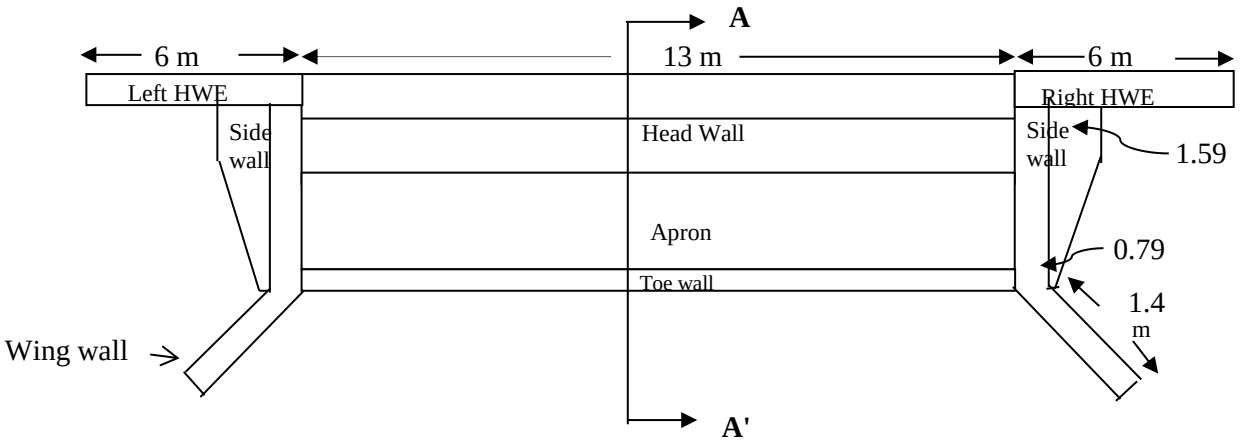
**Drawing of Anicut** **Village :- IWMP JALORE II**

**SIDE VIEW**




**Sec. at A A'**

**PLAN**



| | | | |
|---|---|---|---|
| **Name of Work** | Masonry Check Dam Samtipura | | 4.95 |
| **Watershed** | IWMP JALORE II | | |
| **Scheme** | IWMP | | |
| **Panchayat Samiti** | JALORE | | |
| **District** | JALORE | | |
| **Micro w/s No.** | 1/4 | | |
| **Catchment Area** | 175 | Ha. | |
| **Non Arable Land** | 60 | Ha. | |
| **Arable Land** | 100 | Ha. | |
| **Forest Land** | 0 | Ha. | |
| **% Slope of Nallah** | 1.9 | | 1.9091 |
| **Max. Length of travel of water** | 2200 | mt. | |
| **Diff. Of Elev. Bet. Most remote pt.& outlet** | 42 | mt. | |
| **Maximum rainfall intensity** | 7 | cm/hr | |
| **Length of Anicut (Mt)** | 17 | mt. | |
| **Top Width of Anicut = 0.8** | 0.9 | mt. | |
| **Length of HWE(Calculated) = 3.6** | | | |
| **Length of HWE (LEFT)** | 7 | mt.(As per site condition) | |
| **Length of HWE (RIGHT)** | 6 | mt.(As per site condition) | |
| **Height of Head Wall** | 2 | | |

| | |
|---|---|
| OVER TURNING | It is more than 1.5, hence the structure is safe against overturning. |
| SLIDING | It is more than 1.0, so the structure is safe against sliding. |
| RUPTURE | This value is more than 1/3 and less than 2/3 of the base width, it means res through the middle third, so there is no chances of developing any tension i the structure is safe from rupture in tension. |
| Depth of Foundation(As per Site Condition) | 1.2 m |

| | Depth | Loose Soil | hard soil | Disint rock | Soft rock |
|---|---|---|---|---|---|
| **H. W.** | 1.2 | **0.2** | **0.2** | **0.5** | **0.3** |
| **H.W.E. (lleft)** | 3.7 | **0** | **0.2** | **0.5** | **3** |
| **H.W.E. (right)** | 3.7 | **0** | **0.2** | **0.5** | **3** |
| **S.W.** | >>> | **0** | **0.2** | **0.5** | **0.5** |
| **Wing wall** | >>> | **0** | **0.2** | **0.5** | **0.5** |
| **Toe wall** | >>> | **0.2** | **0.2** | **0.2** | **0.6** |
| **Apron 50 cm** | >>> | **0.2** | **0.2** | **0.1** | |
| **Cut off wall** | >>> | **0** | **0** | | |
| **Berm** | >>> | **0** | | | |

## MATERIAL COMPONENT

| | | |
|---|---|---|
| **CEMENT** | 285 | PER BAG |
| **SAND** | 390 | PER CU.M. |
| **AGGREEGATE 40 MM HG.** | 507 | PER CU.M. |
| **20 MM HG.** | 700 | PER CU.M. |
| **STONE** | 650 | PER CU.M. |

## RATE OF ITEMS

| | | |
|---|---|---|
| **Dag belling** | 0.25 | per m |
| **E/W for bund / Embankment** | 74 | per cu.m. |
| **Compaction** | 0 | per cu.m. |
| **Excavation in hard soil** | 71 | per cu.m. |
| **Excavation in ordinary murrum** | 82 | per cu.m. |
| **Excavation in compacted murrum** | 130 | per cu.m. |
| **Excavation in compacted kanti** | 178 | per cu.m. |
| **Excavation in hard rock blasted** | 160 | per cu.m. |
| **Cement concrete (1:4:8)** | 1835 | per cu.m. |
| **Masonary in foundation (1:6)** | 1702 | per cu.m. |
| **Masonary in Super structure (1:6)** | 1850 | per cu.m. |

| | | |
|---|---|---|
| **plaster (1:4)** | 152 | per Sq.m. |
| **Coping** | 218 | per Sq.m. |
| **Pointing** | 53 | per Sq.m. |
| **Kharanjha** | 1205 | per cu.m. |

| Item | Source | Katcha | Pucca | Total | Rate |
|---|---|---|---|---|---|
| Cement | | 5 | 55 | 60 | 312.45 |
| Sand | | 2 | 0 | 2 | 34.65 |
| Aggregate | | | | | |
| 50 mm | | 5 | 5 | 10 | 270 |
| 20 mm | | 5 | 5 | 10 | 270 |
| Stone | | 5 | 5 | 10 | 270 |

ultant is passing
n the masonary, hence

| Kanti |
| --- |
| |
| |
| |
| |
| |
| |
| |
| |
| |

/ Ton

/ Cu.m.

/ Cu.m.
/ Cu.m.

/ Cu.m.

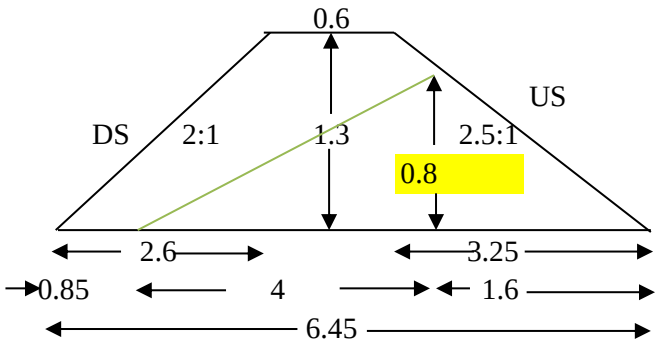
# Earthen bund

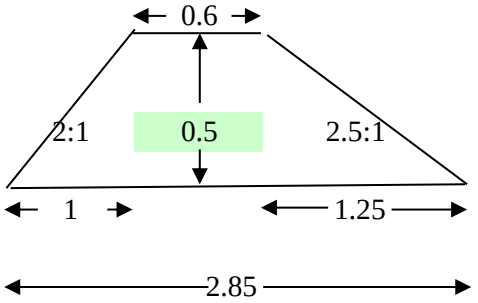
Name of work : Masonry Check Dam Samtipura  Watershed : IWMP JALORE II

| | |
|---|---|
| Left | 20 |
| Right | 20 |

Maximum cross section  Minimum cross section

Top width = Based on seepage line check
Slope of seepage line 5:1




$$CS = \frac{(Tw+Bw) * Ht}{2}$$

CS = 3.525 Sq.m.

$$CS = \frac{(Tw+Bw) * Ht}{2}$$

CS = 1.725 Sq.m.

| | | |
|---|---|---|
| Average Cross section | 2.625 | Sq.m. |
| Length | 40 | m. |
| Quantity | 105 | Cu.m. |

# TECHNICAL NOTE

**Name of work : Masonry Check Dam Samtipura** **Watershed : IWMP JALORE II**

**Block : JALORE** **District : JALORE** **Macro / Micro watershed No.** **1/4**

## A. Basic data :-

| | | | |
|---|---|---|---|
| 1. Catchment area | = | 175 | ha. |
| 2. Maximum rainfall intensity | = | 7 | cm/hr. |
| 3. General nature of catchment area : | | | |
| a. Agriculture land | = | 100 | ha. |
| b. Non arable land | = | 60 | ha. |
| c. Forest land | = | 0 | ha. |
| 4. Height of crest above G. L. | = | 2 | m |
| 5. Flood lift | = | 0.45 | m |
| 6. Free board | = | 0.15 | m |
| 7. Top width of head wall | = | 0.8 | m |
| 8. Bottom width of head wall | = | 2.5 | m |
| 9. Length of crest | = | 17 | m |
| 10. Percentage slope | = | 1.9 | % |
| 11. Submerged area of Anicut | = | 2.54 | ha. |
| 12. Storage capacity of Anicut | = | | ha. |
| 13. Wells benefited | = | 6 | Nos. |

| | | | | |
|---|---|---|---|---|
| 14. Farmers benefited | = | 8 | Nos. |
| 15. Area to be benifitted | = | 34 | ha. |

Catchment area is less than 1300 ha., so Rational formula is applicable.

Q = 0.0276*C*I*A

Where -

Q = Peak rate of runoff in Cu.m./sec

C = Weighted coefficient of runoff

I = Intensity of runoff in cm/hr. for a duration equal to time of concentration and for a given frequency.

A = Catchment area in ha.

Time of concentration Tc = 0.0195*(K)^0.77

Where -

K = (Lt)^1.5/(He)^0.5

Lt = maximum length of travel by runoff water in m.

He = Difference in elevation between most remote point and outlet point in m.

K = 15922.43

Tc = 0.0195*15922.43^0.77

= 33.54 minute I (for Tc = 33.54 min) = 8.6 cm/hr.

Q = 0.0276*0.23*8.6*160

= 8.73 Cumec.

**B. DEPTH OF FLOW OR FLOOD LIFT :-**

Q = 1.71*L*h^1.5

Therefore h^1.5 = Q/(1.71*L)

h^1.5 = 8.73/(1.71*17)

h = 0.45 m.

Taking free board as 0.15 m.

Total (d) = 0.6 m

## C. LENGTH OF OVER FLOW REQUIRED :-

L = 4.75*Q^0.5

= 4.75*^0.5

L = 14.03 m

But as per site condition consider length of head wall = 17 m

Height of head wall taken as per site plan = 2 m

Depth of Foundation from G. L. = 1.2 m

Total height of the structure, H = 3.8 m

## D. HEAD WALL

The up stream face is vertical and down stream face is slanted 0.8 : 1

| | | |
|---|---|---|
| Top width of head wall | = | h/{(p-1)}^0.5 |
| | = | 0.39 |
| (As per departmental practices | = | ((H+d)^0.5)/2 |
| | = | 0.81 |

Therefore min. top width is considered = 0.9 m

| | | | |
|---|---|---|---|
| Base width of Head wall (b) | | = | Top width + 0.8 * H |
| | | = | 0.9+0.8*2 |
| | | = | 2.5 m |

## E. HEAD WALL EXTENSION

| | | | |
|---|---|---|---|
| Length | | = | H+d+1 |
| | | = | 2+0.6+1 |
| | | = | 3.6 m |
| As per site condition left HWE | | = | 7 m |
| Right HWE | | = | 6 m |
| Width of HWE | | = | 0.6 m |
| Height of HWE | = H + d | = | 2+0.6 |
| | | = | 2.6 m |

## F. SIDE WALL

| | | | |
|---|---|---|---|
| Length | | = | b + H + d +Tw - Th. of HWE |
| | | = | 2.5+2.6+0.45-0.6 |
| | | = | 5 m |
| Width | = 0.6+0.4*(H+h) | = | 0.6+0.4*(2+0.45) |
| | | = | 1.58 m |
| Width at junction of w.w. | = 0.6+0.4*0.45 | | 0.78 m |
| Height | = H+d | = | 2+0.6 |
| | | = | 2.6 m |

## G. WING WALL

| | | | |
|---|---|---|---|
| Length | = 2.25*d | = | 2.25*0.6 |
| | | = | 1.35 m |
| Width | | = | 0.6 m |
| Height | = 1.5*d | = | 1.5*0.6 |
| | | = | 0.9 m |

## H. APRON

| | | | |
|---|---|---|---|
| Length | | = | 17 m |
| Width | 0.75*(H+d)+H | = | 0.75*(2+0.6)+2 |
| | | = | 2.6 m |
| Thickness | | = | 0.6 m |

(0.3 m concrete bed with 0.3 m stone kharanja in cement mortar (1 : 6)

## I. TOE WALL

| | | |
|---|---|---|
| Length | = | 17 m |
| Width (tw) | = | 0.45 m |
| Height | = | 0.3 m |

## J. CUT OFF WALL

| | | |
|---|---|---|
| Length | = | 17 m |
| Width | = | 0.6 m |

| | | |
|---|---|---|
| Depth | = | 1 m |

## K. DEPTH OF FOUNDATION

| | | |
|---|---|---|
| As per site condition Depth | = | 1.2 m |

| S. No. | Force | Vertical Forces (V) | Horizontal Forces (F) | Force acting at a distance from B. | Moment at B |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | W1=a*H*L*S<br>=0.9*2*2300<br>= 4140 | 4140 | | 2.05 | 8487 |
| 2 | W2=0.5*(b-a)*H*L*S<br>= 0.5*(2.5-0.9)*2*17*2300<br>= 1840 | 1840 | | 1.07 | 1968.8 |
| 3 | Fa = w*a*h<br>= 1000*0.9*0.45<br>= 405 | 405 | | 2.05 | 830.25 |
| 4 | P1=w*h*H<br>= 1000*0.45*2<br>= 900 | | 900 | 1 | -900 |
| 5 | P2=0.5*w*H^2<br>= 0.5*1000*(2)^2<br>= 2000 | | 2000 | 0.67 | -1340 |
| 6 | P3=(C*w*b*(H+h))/2<br>=(0.5*1000*2.5*(2+0.45))/2<br>= 1531.25 | -1531.25 | | 1.67 | -2557.1875 |
| | TOTAL | 7511.25 | 2900 | | |

Restoring Moment (Mr) = 11286.05
Over turning Moment (Mo) = 4797.19
Resultant Moment (EM) = 6488.86

Where -

L = Length of Anicut (m)
S = Specific weight of masonary = 2300 Kg/Cu.m.
w = Specific weight of water = 1000 Kg/Cu.m.

## CHECKS :-

### (1.) OVERTURNING

Factor of safety against overturning

= Restoring Moment (Mr) / Overturning Moment (Mo)

= 11286.05/4797.19

= 2.35263769

It is more than 1.5, hence the structure is safe against overturning.

### (2.) SLIDING :-

Factor of safety against sliding = U*Sigma V / Sigma F

Where U is coefficient of sliding = 0.70

= 0.70*7511.25/2900

= 1.81

It is more than 1.0, so the structure is safe against sliding.

### (3.) RUPTURE :-

Position of resultant $\bar{X}$ = Sigma M / Sigma V

= 6488.86/7511.25

= 0.864 meter from B.

This value is more than 1/3 and less than 2/3 of the base width, it means resultant is passing through the middle third, so there is no chances of developing any tension in the masonary, hence the structure is safe from rupture in tension.

### (4.) SAFETY AGAINST COMPRESSION (CRUSHING)

Eccentricity e = b/2 -$\bar{X}$

Compressive stress at toe & heal respectively

$$P = \frac{\text{Sigma V}*[1+6*e/b]}{b}$$

P max = 7511.25*[1+6*0.386/2.5]/2.5 = 5787.87 Kg/Sq.m.

P min = 7511.25*[1-6*0.386/2.5]/2.5 = 221.13 Kg/Sq.m.

## DETAILS OF WORK

**Name of work : Masonry Check Dam Samtipura** **Village : IWMP JALORE II**
**P. S. : JALORE** **District : JALORE**

| S.No. | Particular | | Quantity | |
|---|---|---|---|---|
| ☆ | Dag belling ( 5 to 7.5 cm deep) | | | |
| | | | = 4*17 + 2*7 + 2*6 + 2*5 + 4*1.35= | **109.4** m. |
| ☆ | E /W for bund / embankment in dry or moist soil including laying in layers of 15 cm. Breaking of clods,sort ing of grass,pabbles etc and dressing in required profile when compacted manually or by plain roller with initial lead of 30 Mt. And lift of 1.5 Mt(excluding charges of .watering and compaction ) hard soil 55%(i.e.25.06) | | | |
| | | | | **105** Cu.m. |
| ☆ | Excavation in Loose soil dry or moist & disposal of excavated material within initial lead of 30 m and lift of 1.5 m including dressing etc. complete | | | |
| | H. W. | = | 17*2.5*0.2 | 8.5 |
| | H.W.E. (lleft) | = | 7*0.75*0 | 1.05 |
| | H.W.E. (right) | = | 6*0.75*0 | 0.9 |
| | S.W. | = | 5*(1.58+0.78)*0.5*0 | 1.18 |
| | Wing wall | = | 1.35*0.75*0 | 0.2 |
| | Toe wall | = | 17*0.45*0.2 | 1.53 |
| | Apron | = | 17*2.6*0.2 | 8.84 |
| | Cut off wall | = | 20*0.75*0 | 3 |
| | | | | **25.2** Cu.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Excavation in hard soil ordinary muram 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 1.5 m including dressing etc. complete. | | | |
| | H. W. | = | 17*2.5*0.2 | 722.5 |
| | H.W.E. (lleft) | = | 7*0.75*0.2 | 1.05 |
| | H.W.E. (right) | = | 6*0.75*0.2 | 0.9 |
| | S.W. | = | 5*(1.58+0.78)*0.5*0.2 | 1.18 |
| | Wing wall | = | 1.35*0.75*0.2 | 0.2 |
| | Toe wall | = | 17*0.45*0.2 | 1.53 |
| | Apron | = | 17*2.6*0.2 | 8.84 |
| | Cut off wall | = | 20*0.75*0 | 0 |
| | | | | **736.2** Cu.m. |
| ☆ | Excavation in disintegrated rock and or soft rock or hard kankar or compacted murrum, dry or moist including dresssing & disposal of excavated material with initial lead of 30 m and lift of 1.5 m | | | |
| | H. W. | = | 17*2.5*0.5 | 21.25 |
| | H.W.E. (lleft) | = | 7*0.75*0.5 | 2.625 |
| | H.W.E. (right) | = | 6*0.75*0.5 | 2.25 |
| | S.W. | = | 5*(1.58+0.78)*0.5*0.5 | 2.95 |
| | Wing wall | = | 1.35*0.75*0.5 | 0.50625 |
| | Toe wall | = | 17*0.45*0.2 | 1.53 |
| | Apron | = | 17*2.6*0.1 | 4.42 |
| | Cut off wall | = | 20*0.75*0 | 0 |
| | | | | **35.53125** Cu.m. |
| ☆ | Excavation in compacted kanti, or jhagia and or hard rock, dry or moist not requiring blasting including dressing & disposal of excavated material and stacking of useable stones with initial lead of 30 m & lift of 1.5 m | | | |

| | | | | |
|---|---|---|---|---|
| | H. W. | = | 17*2.5*0.3 | 12.75 |
| | H.W.E. (lleft) | = | 7*0.75*3 | 15.75 |
| | H.W.E. (right) | = | 7*0.75*3 | 13.5 |
| | S.W. | = | 5*(1.58+0.78)*0.5*0.5 | 2.95 |
| | Wing wall | = | 1.35*0.75*0.5 | 0.50625 |
| | Toe wall | = | 17*0.45*0.6 | 4.59 |
| | Apron | = | 17*2.6*0 | 0 |
| | Cut off wall | = | 17*2.6*0 | 0 |
| | | | | **50.04625** Cu.m. |

☆ Excavation in hard rock blasted (dry or moist) including dressing & disposal of excavated material and stacking of useable stones with initial lead of 30 m & lift of 1.5 m

| | | | | |
|---|---|---|---|---|
| | H. W. | = | | |
| | H.W.E. (lleft) | = | | |
| | H.W.E. (right) | = | | |
| | S.W. | = | | |
| | Wing wall | = | | |
| | Toe wall | = | | |
| | Apron | = | | |
| | Cut off wall | = | | |
| | | | | Cu.m. |

☆ Cement concrete well mixed in cement mortar ( 1 : 4 : 8 ) laid in position complete including curing.Aggregate size upto 50 mm, HB

| | | | | |
|---|---|---|---|---|
| | H. W. | = | 17*2.5*0.2 | 8.5 |
| | H.W.E. (lleft) | = | 7*0.75*0.2 | 1.05 |
| | H.W.E. (right) | = | 6*0.75*0.2 | 0.9 |
| | S.W. | = | 5*(1.58+0.78)*0.5*0.2 | 1.18 |
| | Wing wall | = | 1.35*0.75*0.2 | 0.2 |
| | Toe wall | = | 17*0.45*0.2 | 1.53 |
| | Apron | = | 17*2.6*0.2 | 8.84 |
| | Cut off wall | = | | |
| | | | | **22.2** Cu.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Random rubble stone masonary in cement sand mortar ( 1 : 6 )For foundation | | | |
| | H. W. | = | 17*2.5*1 | 42.5 |
| | H.W.E. (lleft) | = | 7*0.75*1 | 5.25 |
| | H.W.E. (right) | = | 6*0.75*1 | 4.5 |
| | S.W. | = | 5*(1.58+0.78)*0.5*1 | 11.8 |
| | Wing wall | = | 2*1.35*0.75*1 | 2.03 |
| | Toe wall | = | 17*0.45*1 | 7.65 |
| | Cut off wall | = | 20*0.75*1 | 15 |
| | | | | **88.73** Cu.m. |
| ☆ | Random rubble stone masonary in cement sand mortar ( 1 : 6 ) For superstructure | | | |
| | H. W. | = | 17*(2.5+0.9)*0.5*2 | 57.8 |
| | H.W.E. (lleft) | = | 7*0.6*2.6 | 10.92 |
| | H.W.E. (right) | = | 6*0.6*2.6 | 9.36 |
| | S.W. | = | 5*[{(1.58+0.6)/2+(0.78+0.6)/2}/2]*(2.6+0.9)/2 | 7.79 |
| | Wing wall | = | 1.35*0.6*0.9 | 0.73 |
| | Toe wall | = | 17*0.45*0.3 | 2.3 |
| | | | | **88.9** Cu.m. |
| ☆ | Stone kharanja in cement mortar (1 : 6) for bed floor including curring etc. complete | | | |
| | | | 17*2.6*0.3 | **13.26** Cu.m. |
| ☆ | Cement plaster including smooth finishing in cement mortar (1:4) 25 mm thick. | | | |
| | H. W. | = | 17*2 | 34 |
| | H.W.E. (lleft) | = | 7*2.6 | 18.2 |
| | H.W.E. (right) | = | 6*2.6 | 15.6 |

| | | | | |
|---|---|---|---|---|
| | S.W. | = | 2 * {(0.9 * 0.6) + (0.6 + 2 + 0.6)/2*(2.5 - 0.9) + (2 + 0.6 + 0.9)/2*(2.6 + 0.45)} | 16.88 |
| | Wing wall | = | 1.35*0.9 | 1.22 |
| | Toe wall | = | 17*0.3 | 5.1 |
| | | | | **91** Sq.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Ruled pointing in cement mortar (1:3) | | | |
| | H. W. | = | 17*2.56 | **43.52** Sq.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Cement concrete coping in cement mortar 1 : 2 : 4 , 75 mm thick. | | | |
| | H. W. | = | 17*0.9 | 15.30 |
| | H.W.E. (lleft) | | 7*0.6 | 4.2 |
| | H.W.E. (right) | | 6*0.6 | 3.6 |
| | S.W. | | 2 * {( 0.6*(2.5 + 2.6 + 0.45)} | 6.66 |
| | Wing wall | | 1.35*0.60 | 0.81 |
| | Toe wall | | 17*0.45 | 7.65 |
| | | | | **38.22** Sq.m. |

## ABSTRACT OF COST

| S.No. | Item | Quantity | Rate | Amount |
|---|---|---|---|---|
| 1 | Dag belling ( 5 to 7.5 cm deep) | 109.4 | 0.25 / R m. | 27.35 |
| | E /W for bund / embankment in dry or moist soil including laying in layers of 15 cm. Breaking of clods,sort ing of grass,pabbles etc and dressing in required profile when compacted manually or by plain roller with initial lead of 30 Mt. And lift of 1.5 Mt(excluding charges of .watering and compaction ) hard soil | 105 | 74 / Cu.m. | 7770 |
| | Compaction of earth work on embankment by manual ramming or plain roller | 0 | 0 / Cu.m. | 0 |
| | Excavation in Loose soil dry or moist & disposal of excavated material within initial lead of 30 m and lift of 1.5 m including dressing etc. complete | 25.2 | 71 / Cu.m. | 1789.2 |
| | Excavation in hard soil ordinary muram 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 1.5 m including dressing etc. complete. | 736.2 | 82 / Cu.m. | 60368.4 |
| | Excavation in disintegrated rock and or soft rock or hard kankar or compacted murrum, dry or moist including dresssing & disposal of excavated material with initial lead of 30 m and lift of 1.5 m | 35.53125 | 130 / Cu.m. | 4619.06 |

| | | | | |
|---|---|---|---|---|
| | Excavation in compacted kanti, or jhagia and or hard rock, dry or moist not requiring blasting including dressing & disposal of excavated material and stacking of useable stones with initial lead of 30 m & lift of 1.5 m | 50.04625 | 178 / Cu.m. | 8908.23 |
| | Excavation in hard rock blasted (dry or moist) including dressing & disposal of excavated material and stacking of useable stones with initial lead of 30 m & lift of 1.5 m | 0 | 160 / Cu.m. | 0 |
| | Preparation of foundation of structure including removal of all loose stones and silt and final washing by manual labour. | 0 | / Cu.m. | 0 |
| | **C**ement concrete well mixed in cement mortar ( 1 : 4 : 8 ) laid in position complete including curing.Aggregate size upto 50 mm, HB | 22.2 | 1835 / Cu.m. | 40737 |
| | **R**andom rubble stone masonary in cement sand mortar ( 1 : 6 )For foundation | 88.73 | 1702 / Cu.m. | 151018.46 |
| | **R**andom rubble stone masonary in cement sand mortar ( 1 : 6 ) For superstructure | 88.9 | 1850 / Cu.m. | 164465 |
| | Stone kharanja in cement mortar (1 : 6) for bed floor including curring etc. complete | 13.26 | 1205 / Cu.m. | 15978.3 |

| | | | |
|---|---|---|---|
| Cement plaster including smooth finishing in cement mortar (1 : 4) 25 mm thick. | 91 | 152 / Sq.m. | 13832 |
| Ruled pointing in cement mortar (1 : 3) | 43.52 | 53 / Sq.m. | 2306.56 |
| Cement concrete coping in cement mortar 1 : 2 : 4 , 50 mm thick. | 38.22 | 218 / Sq.m. | 8331.96 |
| | | **Total Rs.** | **480151.52** |

## MATERIAL CONSUMPTION STATEMENT

Name of work : Masonry Check Dam Samtipura  Name of Village : IWMP JALORE II

| S.No. | Particulars | Qty. | Cement (Bags) | Sand (Cu.m) | Aggregate | | Stone (Cu.m) |
|---|---|---|---|---|---|---|---|
| | | | | | 50 mm | 12 mm | |
| 1 | Cement concrete (1:4:8) Aggregate size upto 50 mm, HB. @ (3.2,0.45,0.9) | 22.2 Cu.m | 71.04 | 9.99 | 19.98 | | |
| 2 | R.R. Stone masonary (1:6) (Foundation / Superstructure. @(1.395,0.3,1.10) | 177.63 Cu.m | 247.79 | 53.29 | | | 195.39 |
| 3 | Cement plaster (1:4) 25 mm thick. @(0.224,0.032) | 91 Sq.m | 20.38 | 2.91 | | | |
| 4 | Raised & cut pointing @(0.028,0.003) | 43.52 Sq.m | 1.22 | 0.13 | | | |
| 5 | Stone kharanja in cement mortar (1:6) @(1.07,0.3,1.1) | 13.26 Cu.m | 14.19 | 3.98 | | | 14.59 |
| 6 | Cement concrete coping (1:2:4) 50 mm thick @(0.312,0.022,0.045) | 15.3 Sq.m | 4.77 | 0.34 | | 0.69 | |
| | **TOTAL** | | **359.39** | **70.64** | **19.98** | **0.69** | **209.98** |

**Say 359 Bags**

**Material Component :-**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | Cement | 359 | Bags | @ | 285 | Per Bag = Rs | 102315 |
| 2 | Sand | 70.64 | Cu.m. | @ | 390 | Per Cu.m = Rs | 27549.6 |
| 3 | Aggregate | | | | | | |
| | 50 mm | 19.98 | Cu.m. | @ | 507 | Per Cu.m = Rs | 10129.86 |
| | 12 mm | 0.69 | Cu.m. | @ | 700 | Per Cu.m = Rs | 483 |
| 4 | Stone | 209.98 | Cu.m. | @ | 650 | Per Cu.m = Rs | 136487 |

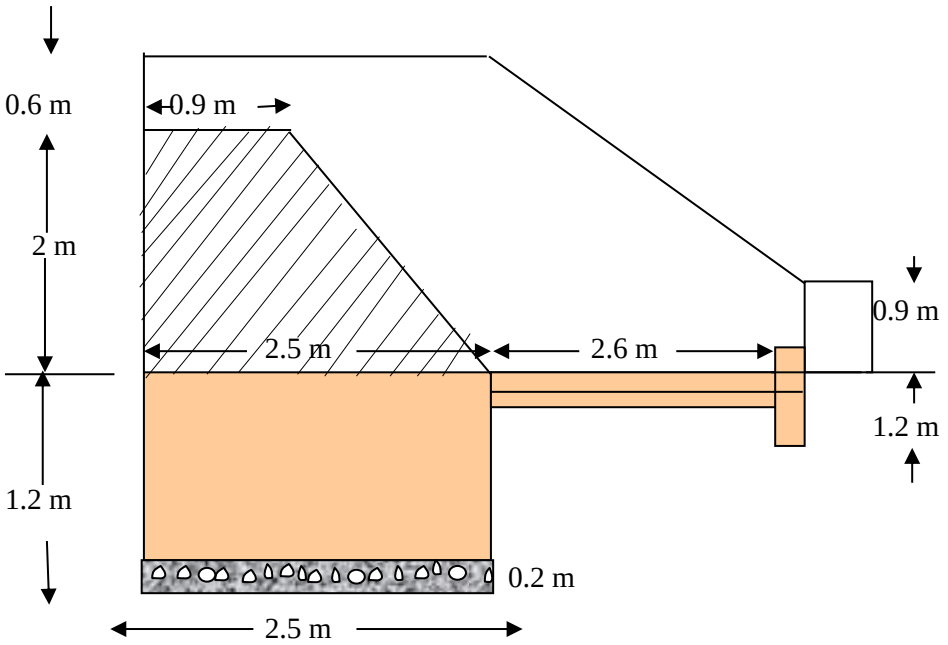
**Total Rs = 276964.46**

**EMPLOYMENT GENERATION**

| | | |
|---|---|---|
| Labour Component :- | Rs. | **203187.06** |
| | Total Rs. | **480151.52** |
| Contingency and Suoervision charges (@ 3%) | Rs. | **14404.55** |
| | **Grand Total Rs.=** | **494556.07** |
| | Say Rs | 4.95 Lakh |

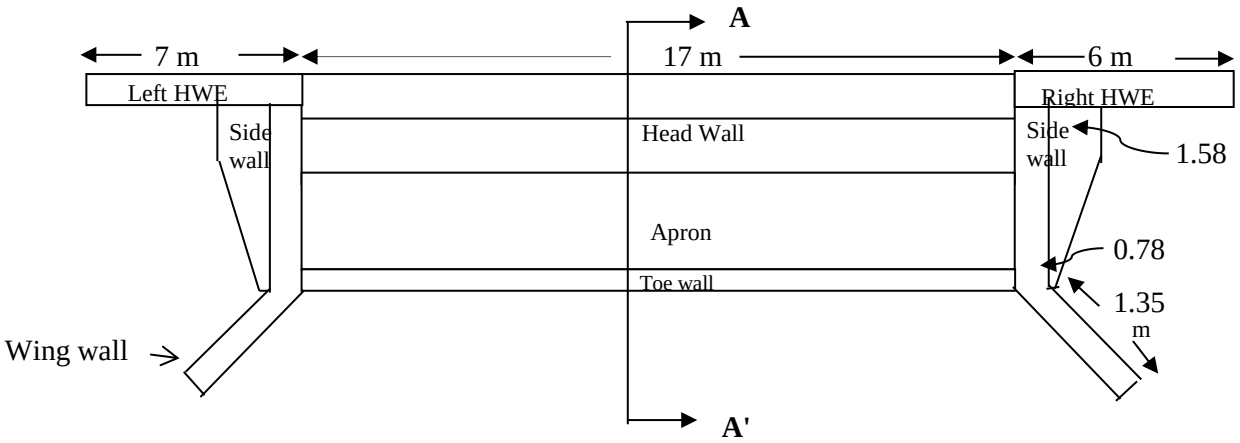
**Drawing of Anicut** **Village :- IWMP JALORE II**

**SIDE VIEW**




**Sec. at A A'**

**PLAN**



| | | | |
|---|---|---|---|
| **Name of Work** | Masonry Check Dam Sankarna | | 4.40 |
| **Watershed** | IWMP JALORE II | | |
| **Scheme** | IWMP | | |
| **Panchayat Samiti** | JALORE | | |
| **District** | JALORE | | |
| **Micro w/s No.** | 2/3 | | |
| **Catchment Area** | 142 | Ha. | |
| **Non Arable Land** | 42 | Ha. | |
| **Arable Land** | 100 | Ha. | |
| **Forest Land** | 0 | Ha. | |
| **% Slope of Nallah** | 1.9 | | 1 |
| **Max. Length of travel of water** | 2200 | mt. | |
| **Diff. Of Elev. Bet. Most remote pt.& outlet** | 22 | mt. | |
| **Maximum rainfall intensity** | 7 | cm/hr | |
| **Length of Anicut (Mt)** | 15 | mt. | |
| **Top Width of Anicut = 0.8** | 0.9 | mt. | |
| **Length of HWE(Calculated) = 3.6** | | | |
| **Length of HWE (LEFT)** | 6 | mt.(As per site condition) | |
| **Length of HWE (RIGHT)** | 6 | mt.(As per site condition) | |
| **Height of Head Wall** | 2 | | |

| | |
|---|---|
| OVER TURNING | It is more than 1.5, hence the structure is safe against overturning. |
| SLIDING | It is more than 1.0, so the structure is safe against sliding. |
| RUPTURE | This value is more than 1/3 and less than 2/3 of the base width, it means res through the middle third, so there is no chances of developing any tension i the structure is safe from rupture in tension. |
| Depth of Foundation(As per Site Condition) | 1.2 m |

| | Depth | Loose Soil | hard soil | Disint rock | Soft rock |
|---|---|---|---|---|---|
| **H. W.** | 1.2 | **0.2** | **0.2** | **0.5** | **0.3** |
| **H.W.E. (lleft)** | 3.7 | **0** | **0.2** | **0.5** | **3** |
| **H.W.E. (right)** | 3.7 | **0** | **0.2** | **0.5** | **3** |
| **S.W.** | >>> | **0** | **0.2** | **0.5** | **0.5** |
| **Wing wall** | >>> | **0** | **0.2** | **0.5** | **0.5** |
| **Toe wall** | >>> | **0.2** | **0.2** | **0.2** | **0.6** |
| **Apron 50 cm** | >>> | **0.2** | **0.2** | **0.1** | |
| **Cut off wall** | >>> | **0** | **0** | | |
| **Berm** | >>> | **0** | | | |

## MATERIAL COMPONENT

| | | |
|---|---|---|
| **CEMENT** | 285 | PER BAG |
| **SAND** | 390 | PER CU.M. |
| **AGGREEGATE 40 MM HG.** | 507 | PER CU.M. |
| **20 MM HG.** | 700 | PER CU.M. |
| **STONE** | 650 | PER CU.M. |

## RATE OF ITEMS

| | | |
|---|---|---|
| **Dag belling** | 0.25 | per m |
| **E/W for bund / Embankment** | 74 | per cu.m. |
| **Compaction** | 0 | per cu.m. |
| **Excavation in hard soil** | 71 | per cu.m. |
| **Excavation in ordinary murrum** | 82 | per cu.m. |
| **Excavation in compacted murrum** | 130 | per cu.m. |
| **Excavation in compacted kanti** | 178 | per cu.m. |
| **Excavation in hard rock blasted** | 160 | per cu.m. |
| **Cement concrete (1:4:8)** | 1835 | per cu.m. |
| **Masonary in foundation (1:6)** | 1702 | per cu.m. |
| **Masonary in Super structure (1:6)** | 1850 | per cu.m. |

| | | |
|---|---|---|
| **plaster (1:4)** | 152 | per Sq.m. |
| **Coping** | 218 | per Sq.m. |
| **Pointing** | 53 | per Sq.m. |
| **Kharanjha** | 1205 | per cu.m. |

| Item | Source | Katcha | Pucca | Total | Rate |
|---|---|---|---|---|---|
| Cement | | 5 | 55 | 60 | 312.45 |
| Sand | | 2 | 0 | 2 | 34.65 |
| Aggregate | | | | | |
| 50 mm | | 5 | 5 | 10 | 270 |
| 20 mm | | 5 | 5 | 10 | 270 |
| Stone | | 5 | 5 | 10 | 270 |

ultant is passing
n the masonary, hence

| Kanti |
| --- |
| |
| |
| |
| |
| |
| |
| |
| |
| |

/ Ton

/ Cu.m.

/ Cu.m.
/ Cu.m.

/ Cu.m.

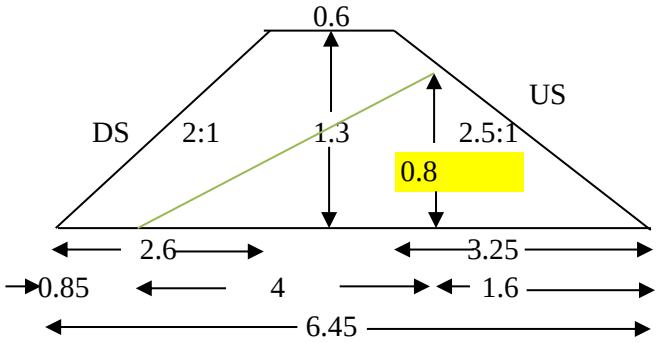
# Earthen bund

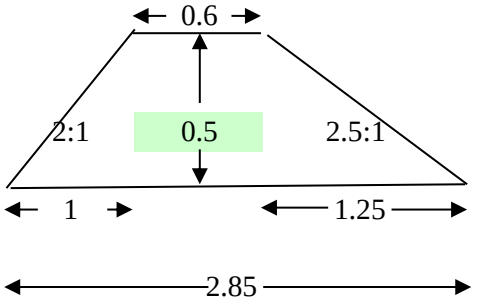
Name of work : Masonry Check Dam Sankarna  Watershed : IWMP JALORE II

| | |
|---|---|
| Left | 12 |
| Right | 12 |

Maximum cross section  Minimum cross section

Top width = Based on seepage line check
Slope of seepage line 5:1




$$CS = \frac{(Tw+Bw)*Ht}{2}$$

CS = 3.525 Sq.m.

$$CS = \frac{(Tw+Bw)*Ht}{2}$$

CS = 1.725 Sq.m.

| | | |
|---|---|---|
| Average Cross section | 2.625 | Sq.m. |
| Length | 24 | m. |
| Quantity | 63 | Cu.m. |

# TECHNICAL NOTE

**Name of work : Masonry Check Dam Sankarna** **Watershed : IWMP JALORE II**

**Block : JALORE** **District : JALORE** **Macro / Micro watershed No.** **2/3**

## A. Basic data :-

| | | | |
|---|---|---|---|
| 1. Catchment area | = | 142 | ha. |
| 2. Maximum rainfall intensity | = | 7 | cm/hr. |
| 3. General nature of catchment area : | | | |
| a. Agriculture land | = | 100 | ha. |
| b. Non arable land | = | 42 | ha. |
| c. Forest land | = | 0 | ha. |
| 4. Height of crest above G. L. | = | 2 | m |
| 5. Flood lift | = | 0.45 | m |
| 6. Free board | = | 0.15 | m |
| 7. Top width of head wall | = | 0.8 | m |
| 8. Bottom width of head wall | = | 2.5 | m |
| 9. Length of crest | = | 15 | m |
| 10. Percentage slope | = | 1.9 | % |
| 11. Submerged area of Anicut | = | 2.54 | ha. |
| 12. Storage capacity of Anicut | = | | ha. |
| 13. Wells benefited | = | 6 | Nos. |

| | | | | |
|---|---|---|---|---|
| 14. Farmers benefited | = | 8 | Nos. |
| 15. Area to be benifitted | = | 34 | ha. |

Catchment area is less than 1300 ha., so Rational formula is applicable.

Q = 0.0276*C*I*A

Where -

Q = Peak rate of runoff in Cu.m./sec

C = Weighted coefficient of runoff

I = Intensity of runoff in cm/hr. for a duration equal to time of concentration and for a given frequency.

A = Catchment area in ha.

Time of concentration Tc = 0.0195*(K)^0.77

Where -

K = (Lt)^1.5/(He)^0.5

Lt = maximum length of travel by runoff water in m.

He = Difference in elevation between most remote point and outlet point in m.

K = 22000

Tc = 0.0195*22000^0.77

= 43.02 minute I (for Tc = 43.02 min) = 8.1 cm/hr.

Q = 0.0276*0.24*8.1*142

= 7.62 Cumec.

**B. DEPTH OF FLOW OR FLOOD LIFT :-**

Q = 1.71*L*h^1.5

Therefore h^1.5 = Q/(1.71*L)

h^1.5 = 7.62/(1.71*15)

h = 0.45 m.

Taking free board as 0.15 m.

Total (d) = 0.6 m

## C. LENGTH OF OVER FLOW REQUIRED :-

L = 4.75*Q^0.5

= 4.75*^0.5

L = 13.11 m

But as per site condition consider length of head wall = 15 m

Height of head wall taken as per site plan = 2 m

Depth of Foundation from G. L. = 1.2 m

Total height of the structure, H = 3.8 m

## D. HEAD WALL

The up stream face is vertical and down stream face is slanted 0.8 : 1

| | | |
|---|---|---|
| Top width of head wall | = | h/{(p-1)}^0.5 |
| | = | 0.39 |
| (As per departmental practices | = | ((H+d)^0.5)/2 |
| | = | 0.81 |

Therefore min. top width is considered = 0.9 m

| | | | |
|---|---|---|---|
| Base width of Head wall (b) | | = | Top width + 0.8 * H |
| | | = | 0.9+0.8*2 |
| | | = | 2.5 m |

## E. HEAD WALL EXTENSION

| | | | |
|---|---|---|---|
| Length | | = | H+d+1 |
| | | = | 2+0.6+1 |
| | | = | 3.6 m |
| As per site condition left HWE | | = | 6 m |
| Right HWE | | = | 6 m |
| Width of HWE | | = | 0.6 m |
| Height of HWE | = H + d | = | 2+0.6 |
| | | = | 2.6 m |

## F. SIDE WALL

| | | | |
|---|---|---|---|
| Length | | = | b + H + d +Tw - Th. of HWE |
| | | = | 2.5+2.6+0.45-0.6 |
| | | = | 5 m |
| Width | = 0.6+0.4*(H+h) | = | 0.6+0.4*(2+0.45) |
| | | = | 1.58 m |
| Width at junction of w.w. | = 0.6+0.4*0.45 | | 0.78 m |
| Height | = H+d | = | 2+0.6 |
| | | = | 2.6 m |

## G. WING WALL

| | | | |
|---|---|---|---|
| Length | = 2.25*d | = | 2.25*0.6 |
| | | = | 1.35 m |
| Width | | = | 0.6 m |
| Height | = 1.5*d | = | 1.5*0.6 |
| | | = | 0.9 m |

## H. APRON

| | | | |
|---|---|---|---|
| Length | | = | 15 m |
| Width | 0.75*(H+d)+H | = | 0.75*(2+0.6)+2 |
| | | = | 2.6 m |
| Thickness | | = | 0.6 m |

(0.3 m concrete bed with 0.3 m stone kharanja in cement mortar (1 : 6)

## I. TOE WALL

| | | |
|---|---|---|
| Length | = | 15 m |
| Width (tw) | = | 0.45 m |
| Height | = | 0.3 m |

## J. CUT OFF WALL

| | | |
|---|---|---|
| Length | = | 15 m |
| Width | = | 0.6 m |

| | | |
|---|---|---|
| Depth | = | 1 m |

## K. DEPTH OF FOUNDATION

| | | |
|---|---|---|
| As per site condition Depth | = | 1.2 m |

| S. No. | Force | Vertical Forces (V) | Horizontal Forces (F) | Force acting at a distance from B. | Moment at B |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | W1=a*H*L*S<br>=0.9*2*2300<br>= 4140 | 4140 | | 2.05 | 8487 |
| 2 | W2=0.5*(b-a)*H*L*S<br>= 0.5*(2.5-0.9)*2*15*2300<br>= 1840 | 1840 | | 1.07 | 1968.8 |
| 3 | Fa = w*a*h<br>= 1000*0.9*0.45<br>= 405 | 405 | | 2.05 | 830.25 |
| 4 | P1=w*h*H<br>= 1000*0.45*2<br>= 900 | | 900 | 1 | -900 |
| 5 | P2=0.5*w*H^2<br>= 0.5*1000*(2)^2<br>= 2000 | | 2000 | 0.67 | -1340 |
| 6 | P3=(C*w*b*(H+h))/2<br>=(0.5*1000*2.5*(2+0.45))/2<br>= 1531.25 | -1531.25 | | 1.67 | -2557.1875 |
| | TOTAL | 7511.25 | 2900 | | |

Restoring Moment (Mr) = 11286.05
Over turning Moment (Mo) = 4797.19
Resultant Moment (EM) = 6488.86

Where -

L = Length of Anicut (m)
S = Specific weight of masonary = 2300 Kg/Cu.m.
w = Specific weight of water = 1000 Kg/Cu.m.

## CHECKS :-

### (1.) OVERTURNING

Factor of safety against overturning

= Restoring Moment (Mr) / Overturning Moment (Mo)

= 11286.05/4797.19

= 2.35263769

It is more than 1.5, hence the structure is safe against overturning.

### (2.) SLIDING :-

Factor of safety against sliding = U*Sigma V / Sigma F

Where U is coefficient of sliding = 0.70

= 0.70*7511.25/2900

= 1.81

It is more than 1.0, so the structure is safe against sliding.

### (3.) RUPTURE :-

Position of resultant $\bar{X}$ = Sigma M / Sigma V

= 6488.86/7511.25

= 0.864 meter from B.

This value is more than 1/3 and less than 2/3 of the base width, it means resultant is passing through the middle third, so there is no chances of developing any tension in the masonary, hence the structure is safe from rupture in tension.

### (4.) SAFETY AGAINST COMPRESSION (CRUSHING)

Eccentricity e = b/2 -$\bar{X}$

Compressive stress at toe & heal respectively

$$P = \frac{\text{Sigma V}*[1+6*e/b]}{b}$$

P max = 7511.25*[1+6*0.386/2.5]/2.5 = 5787.87 Kg/Sq.m.

P min = 7511.25*[1-6*0.386/2.5]/2.5 = 221.13 Kg/Sq.m.

## DETAILS OF WORK

**Name of work : Masonry Check Dam Sankarna** **Village : IWMP JALORE II**
**P. S. : JALORE** **District : JALORE**

| S.No. | Particular | | Quantity | |
|---|---|---|---|---|
| ☆ | Dag belling ( 5 to 7.5 cm deep) | | | |
| | | | = 4*15 + 2*6 + 2*6 + 2*5 + 4*1.35= | **99.4** m. |
| ☆ | E /W for bund / embankment in dry or moist soil including laying in layers of 15 cm. Breaking of clods,sort ing of grass,pabbles etc and dressing in required profile when compacted manually or by plain roller with initial lead of 30 Mt. And lift of 1.5 Mt(excluding charges of .watering and compaction ) hard soil 55%(i.e.25.06) | | | |
| | | | | **63** Cu.m. |
| ☆ | Excavation in Loose soil dry or moist & disposal of excavated material within initial lead of 30 m and lift of 1.5 m including dressing etc. complete | | | |
| | H. W. | = | 15*2.5*0.2 | 7.5 |
| | H.W.E. (lleft) | = | 6*0.75*0 | 0.9 |
| | H.W.E. (right) | = | 6*0.75*0 | 0.9 |
| | S.W. | = | 5*(1.58+0.78)*0.5*0 | 1.18 |
| | Wing wall | = | 1.35*0.75*0 | 0.2 |
| | Toe wall | = | 15*0.45*0.2 | 1.35 |
| | Apron | = | 15*2.6*0.2 | 7.8 |
| | Cut off wall | = | 20*0.75*0 | 3 |
| | | | | **22.83** Cu.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Excavation in hard soil ordinary muram 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 1.5 m including dressing etc. complete. | | | |
| | H. W. | = | 15*2.5*0.2 | 562.5 |
| | H.W.E. (lleft) | = | 6*0.75*0.2 | 0.9 |
| | H.W.E. (right) | = | 6*0.75*0.2 | 0.9 |
| | S.W. | = | 5*(1.58+0.78)*0.5*0.2 | 1.18 |
| | Wing wall | = | 1.35*0.75*0.2 | 0.2 |
| | Toe wall | = | 15*0.45*0.2 | 1.35 |
| | Apron | = | 15*2.6*0.2 | 7.8 |
| | Cut off wall | = | 20*0.75*0 | 0 |
| | | | | **574.83** Cu.m. |
| ☆ | Excavation in disintegrated rock and or soft rock or hard kankar or compacted murrum, dry or moist including dresssing & disposal of excavated material with initial lead of 30 m and lift of 1.5 m | | | |
| | H. W. | = | 15*2.5*0.5 | 18.75 |
| | H.W.E. (lleft) | = | 6*0.75*0.5 | 2.25 |
| | H.W.E. (right) | = | 6*0.75*0.5 | 2.25 |
| | S.W. | = | 5*(1.58+0.78)*0.5*0.5 | 2.95 |
| | Wing wall | = | 1.35*0.75*0.5 | 0.50625 |
| | Toe wall | = | 15*0.45*0.2 | 1.35 |
| | Apron | = | 15*2.6*0.1 | 3.9 |
| | Cut off wall | = | 20*0.75*0 | 0 |
| | | | | **31.95625** Cu.m. |
| ☆ | Excavation in compacted kanti, or jhagia and or hard rock, dry or moist not requiring blasting including dressing & disposal of excavated material and stacking of useable stones with initial lead of 30 m & lift of 1.5 m | | | |

| | | | | |
|---|---|---|---|---|
| | H. W. | = | 15*2.5*0.3 | 11.25 |
| | H.W.E. (lleft) | = | 6*0.75*3 | 13.5 |
| | H.W.E. (right) | = | 6*0.75*3 | 13.5 |
| | S.W. | = | 5*(1.58+0.78)*0.5*0.5 | 2.95 |
| | Wing wall | = | 1.35*0.75*0.5 | 0.50625 |
| | Toe wall | = | 15*0.45*0.6 | 4.05 |
| | Apron | = | 15*2.6*0 | 0 |
| | Cut off wall | = | 15*2.6*0 | 0 |
| | | | | **45.75625** Cu.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Excavation in hard rock blasted (dry or moist) including dressing & disposal of excavated material and stacking of useable stones with initial lead of 30 m & lift of 1.5 m | | | |
| | H. W. | = | | |
| | H.W.E. (lleft) | = | | |
| | H.W.E. (right) | = | | |
| | S.W. | = | | |
| | Wing wall | = | | |
| | Toe wall | = | | |
| | Apron | = | | |
| | Cut off wall | = | | |
| | | | | Cu.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Cement concrete well mixed in cement mortar ( 1 : 4 : 8 ) laid in position complete including curing.Aggregate size upto 50 mm, HB | | | |
| | H. W. | = | 15*2.5*0.2 | 7.5 |
| | H.W.E. (lleft) | = | 6*0.75*0.2 | 0.9 |
| | H.W.E. (right) | = | 6*0.75*0.2 | 0.9 |
| | S.W. | = | 5*(1.58+0.78)*0.5*0.2 | 1.18 |
| | Wing wall | = | 1.35*0.75*0.2 | 0.2 |
| | Toe wall | = | 15*0.45*0.2 | 1.35 |
| | Apron | = | 15*2.6*0.2 | 7.8 |
| | Cut off wall | = | | |
| | | | | **19.83** Cu.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Random rubble stone masonary in cement sand mortar ( 1 : 6 )For foundation | | | |
| | H. W. | = | 15*2.5*1 | 37.5 |
| | H.W.E. (lleft) | = | 6*0.75*1 | 4.5 |
| | H.W.E. (right) | = | 6*0.75*1 | 4.5 |
| | S.W. | = | 5*(1.58+0.78)*0.5*1 | 11.8 |
| | Wing wall | = | 2*1.35*0.75*1 | 2.03 |
| | Toe wall | = | 15*0.45*1 | 6.75 |
| | Cut off wall | = | 20*0.75*1 | 15 |
| | | | | **82.08** Cu.m. |
| ☆ | Random rubble stone masonary in cement sand mortar ( 1 : 6 ) For superstructure | | | |
| | H. W. | = | 15*(2.5+0.9)*0.5*2 | 51 |
| | H.W.E. (lleft) | = | 6*0.6*2.6 | 9.36 |
| | H.W.E. (right) | = | 6*0.6*2.6 | 9.36 |
| | S.W. | = | 5*[{(1.58+0.6)/2+(0.78+0.6)/2}/2]*(2.6+0.9)/2 | 7.79 |
| | Wing wall | = | 1.35*0.6*0.9 | 0.73 |
| | Toe wall | = | 15*0.45*0.3 | 2.03 |
| | | | | **80.27** Cu.m. |
| ☆ | Stone kharanja in cement mortar (1 : 6) for bed floor including curring etc. complete | | | |
| | | | 15*2.6*0.3 | **11.7** Cu.m. |
| ☆ | Cement plaster including smooth finishing in cement mortar (1:4) 25 mm thick. | | | |
| | H. W. | = | 15*2 | 30 |
| | H.W.E. (lleft) | = | 6*2.6 | 15.6 |
| | H.W.E. (right) | = | 6*2.6 | 15.6 |

| | | | | |
|---|---|---|---|---|
| | S.W. | = | 2 * {(0.9 * 0.6) + (0.6 + 2 + 0.6)/2*(2.5 - 0.9) + (2 + 0.6 + 0.9)/2*(2.6 + 0.45)} | 16.88 |
| | Wing wall | = | 1.35*0.9 | 1.22 |
| | Toe wall | = | 15*0.3 | 4.5 |
| | | | | **83.8** Sq.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Ruled pointing in cement mortar (1:3) | | | |
| | H. W. | = | 15*2.56 | **38.40** Sq.m. |

| | | | | |
|---|---|---|---|---|
| ☆ | Cement concrete coping in cement mortar 1 : 2 : 4 , 75 mm thick. | | | |
| | H. W. | = | 15*0.9 | 13.50 |
| | H.W.E. (lleft) | | 6*0.6 | 3.6 |
| | H.W.E. (right) | | 6*0.6 | 3.6 |
| | S.W. | | 2 * {( 0.6*(2.5 + 2.6 + 0.45)} | 6.66 |
| | Wing wall | | 1.35*0.60 | 0.81 |
| | Toe wall | | 15*0.45 | 6.75 |
| | | | | **34.92** Sq.m. |

## ABSTRACT OF COST

| S.No. | Item | Quantity | Rate | Amount |
|---|---|---|---|---|
| 1 | Dag belling ( 5 to 7.5 cm deep) | 99.4 | 0.25 / R m. | 24.85 |
| | E /W for bund / embankment in dry or moist soil including laying in layers of 15 cm. Breaking of clods,sort ing of grass,pabbles etc and dressing in required profile when compacted manually or by plain roller with initial lead of 30 Mt. And lift of 1.5 Mt(excluding charges of .watering and compaction ) hard soil | 63 | 74 / Cu.m. | 4662 |
| | Compaction of earth work on embankment by manual ramming or plain roller | 0 | 0 / Cu.m. | 0 |
| | Excavation in Loose soil dry or moist & disposal of excavated material within initial lead of 30 m and lift of 1.5 m including dressing etc. complete | 22.83 | 71 / Cu.m. | 1620.93 |
| | Excavation in hard soil ordinary muram 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 1.5 m including dressing etc. complete. | 574.83 | 82 / Cu.m. | 47136.06 |
| | Excavation in disintegrated rock and or soft rock or hard kankar or compacted murrum, dry or moist including dresssing & disposal of excavated material with initial lead of 30 m and lift of 1.5 m | 31.95625 | 130 / Cu.m. | 4154.31 |

| | | | | |
|---|---|---|---|---|
| | Excavation in compacted kanti, or jhagia and or hard rock, dry or moist not requiring blasting including dressing & disposal of excavated material and stacking of useable stones with initial lead of 30 m & lift of 1.5 m | 45.75625 | 178 / Cu.m. | 8144.61 |
| | Excavation in hard rock blasted (dry or moist) including dressing & disposal of excavated material and stacking of useable stones with initial lead of 30 m & lift of 1.5 m | 0 | 160 / Cu.m. | 0 |
| | Preparation of foundation of structure including removal of all loose stones and silt and final washing by manual labour. | 0 | / Cu.m. | 0 |
| | **C**ement concrete well mixed in cement mortar ( 1 : 4 : 8 ) laid in position complete including curing.Aggregate size upto 50 mm, HB | 19.83 | 1835 / Cu.m. | 36388.05 |
| | **R**andom rubble stone masonary in cement sand mortar ( 1 : 6 )For foundation | 82.08 | 1702 / Cu.m. | 139700.16 |
| | **R**andom rubble stone masonary in cement sand mortar ( 1 : 6 ) For superstructure | 80.27 | 1850 / Cu.m. | 148499.5 |
| | Stone kharanja in cement mortar (1 : 6) for bed floor including curring etc. complete | 11.7 | 1205 / Cu.m. | 14098.5 |

| | | | |
|---|---|---|---|
| Cement plaster including smooth finishing in cement mortar (1 : 4) 25 mm thick. | 83.8 | 152 / Sq.m. | 12737.6 |
| Ruled pointing in cement mortar (1 : 3) | 38.40 | 53 / Sq.m. | 2035.2 |
| Cement concrete coping in cement mortar 1 : 2 : 4 , 50 mm thick. | 34.92 | 218 / Sq.m. | 7612.56 |
| | | **Total Rs.** | **426814.33** |

## MATERIAL CONSUMPTION STATEMENT

Name of work : Masonry Check Dam Sankarna  Name of Village : IWMP JALORE II

| S.No. | Particulars | Qty. | Cement (Bags) | Sand (Cu.m) | Aggregate | | Stone (Cu.m) |
|---|---|---|---|---|---|---|---|
| | | | | | 50 mm | 12 mm | |
| 1 | Cement concrete (1:4:8) Aggregate size upto 50 mm, HB. @ (3.2,0.45,0.9) | 19.83 Cu.m | 63.456 | 8.92 | 17.85 | | |
| 2 | R.R. Stone masonary (1:6) (Foundation / Superstructure. @(1.395,0.3,1.10) | 162.35 Cu.m | 226.48 | 48.71 | | | 178.59 |
| 3 | Cement plaster (1:4) 25 mm thick. @(0.224,0.032) | 83.8 Sq.m | 18.77 | 2.68 | | | |
| 4 | Raised & cut pointing @(0.028,0.003) | 38.4 Sq.m | 1.08 | 0.12 | | | |
| 5 | Stone kharanja in cement mortar (1:6) @(1.07,0.3,1.1) | 11.7 Cu.m | 12.52 | 3.51 | | | 12.87 |
| 6 | Cement concrete coping (1:2:4) 50 mm thick @(0.312,0.022,0.045) | 13.5 Sq.m | 4.21 | 0.3 | | 0.61 | |
| | **TOTAL** | | **326.516** | **64.24** | **17.85** | **0.61** | **191.46** |

**Say 327 Bags**

**Material Component :-**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | Cement | 327 | Bags | @ | 285 | Per Bag = Rs | 93195 |
| 2 | Sand | 64.24 | Cu.m. | @ | 390 | Per Cu.m = Rs | 25053.6 |
| 3 | Aggregate | | | | | | |
| | 50 mm | 17.85 | Cu.m. | @ | 507 | Per Cu.m = Rs | 9049.95 |
| | 12 mm | 0.61 | Cu.m. | @ | 700 | Per Cu.m = Rs | 427 |
| 4 | Stone | 191.46 | Cu.m. | @ | 650 | Per Cu.m = Rs | 124449 |

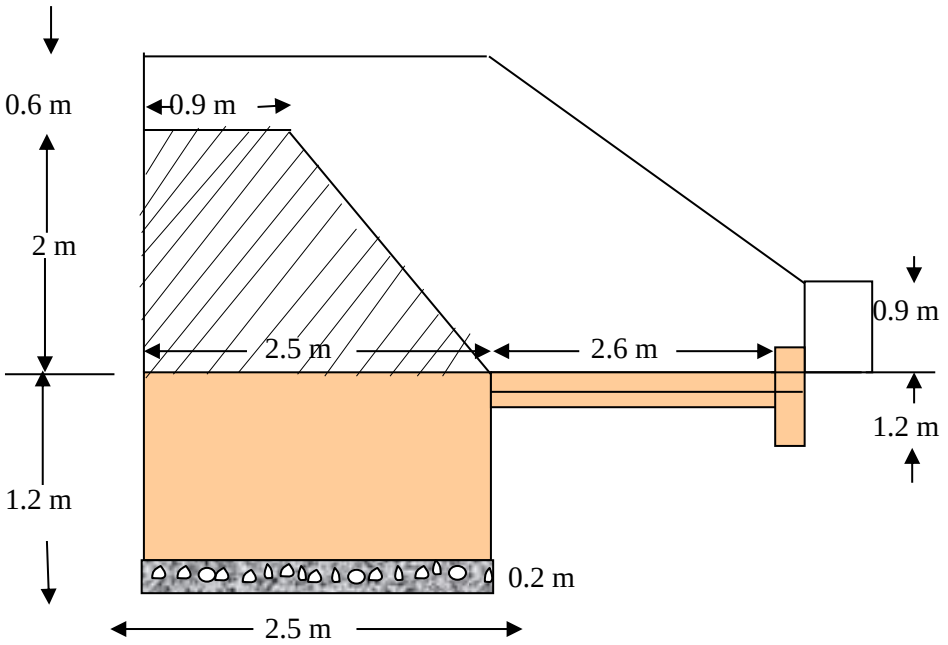
**Total Rs = 252174.55**

**EMPLOYMENT GENERATION**

| | | |
|---|---|---|
| Labour Component :- | Rs. | **174639.78** |
| | Total Rs. | **426814.33** |
| Contingency and Suoervision charges (@ 3%) | Rs. | **12804.43** |
| | **Grand Total Rs.=** | **439618.76** |
| | Say Rs | 4.40 Lakh |

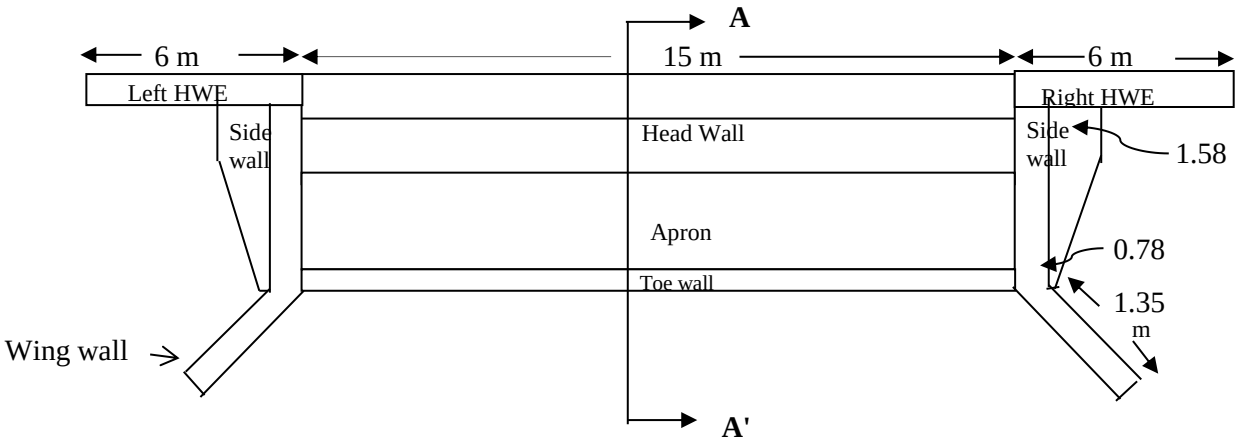
**Drawing of Anicut** **Village :- IWMP JALORE II**

**SIDE VIEW**




**Sec. at A A'**

**PLAN**



# CHAPTER V

## ANNUAL ACTION PLAN THROUGH PROJECT FUND

| | | | | | |
|---|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. | |
| **District: JALORE** | Samtipura | **Geographical Area** | | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 1013 | Hac. | 1013 |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 709 | Hac. | |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 207 | Hac. | |
| | | **2. Govt. / waste /OTHER LAND** | 97 | Hac. | |
| | | **TOTAL COST** | 151.95 | Lac. | |

| S. N. | ACTIVITY | Unit | Quantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| AI. | ADMINISTRATIVE COST | | 10% | 15.195 | 15.195 | | 3.039 | | 3.039 | | 3.039 | | 3.039 | | 3.039 |
| II | MONITORING | | 1% | 1.520 | 1.520 | | 0.304 | | 0.304 | | 0.304 | | 0.304 | | 0.304 |
| III | EVALUATION | | 1% | 1.520 | 1.520 | | 0.304 | | 0.304 | | 0.304 | | 0.304 | | 0.304 |
| | **TOTAL** | | **12%** | **18.234** | **18.234** | | **3.647** | | **3.647** | | **3.647** | | **3.647** | | **3.647** |
| BI | PREPARATORY PHASE ENTRY POINT ACTIVITY | | 4% | 6.078 | 6.078 | | 6.078 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| II | Instituion & CAPACITY BUILDING | | 5% | 7.598 | 7.598 | | 4.559 | | 1.368 | | 0.912 | | 0.380 | | 0.380 |
| III | Preparation of DETAILED PROJECT REPORT | | 1% | 1.520 | 1.520 | | 1.520 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| | **TOTAL** | | **10%** | **15.195** | **15.195** | | **12.156** | | **1.368** | | **0.912** | | **0.380** | | **0.380** |

| S. N. | ACTIVITY | Unit | Quantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| C | **watershed Development works(NRM)** | | **60%** | | **91.17** | **10%** | **15.195** | **15%** | **22.7925** | **15%** | **22.7925** | **12%** | **18.234** | **08%** | **12.156** |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | Vegitative counter bund | Hac | 300 | 11280 | 33.840 | 51 | 5.753 | 71 | 8.009 | 65 | 7.332 | 65 | 7.332 | 48 | 5.414 |
| (ii) | WHS (Tanka) | No. | 46 | 82000 | 37.720 | 3 | 2.460 | 14 | 11.480 | 17 | 13.940 | 11 | 9.020 | 1 | 0.820 |
| (iii) | Waste weir | No. | 20 | 14000 | 2.800 | 1 | 0.140 | 2 | 0.280 | 2 | 0.280 | 12 | 1.680 | 3 | 0.420 |
| (iv) | Gulley Control Structure Nallah Bunding (LSCD) | No. | 6 | 10600 | 0.636 | 1 | 0.106 | 1 | 0.106 | 1 | 0.106 | 1 | 0.106 | 2 | 0.212 |
| (v) | Water harvesting tanka | No. | 2 | 50000 | 1.000 | 1 | 0.500 | 1 | 0.500 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| **TOTAL** | | | | | **75.996** | | **8.959** | | **20.375** | | **21.658** | | **18.138** | | **6.866** |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | V Ditch for PD | | 10 | 13760 | 1.376 | | 0.000 | 10 | 1.376 | | 0.000 | | 0.000 | 0 | 0.000 |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (iii) | Dug out Pond | | 4 | 50000 | 2.000 | 2 | 1.000 | 0 | 0.000 | 0 | 0.000 | | 0.000 | 2 | 1.000 |
| (iv) | WHS (Tanka) | | 2 | 82000 | 1.640 | 2 | 1.640 | 0 | 0.000 | 0 | 0.000 | | 0.000 | 0 | 0.000 |
| (v) | Nallah Bunding with ww | | 5 | 24600 | 1.230 | 5 | 1.230 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | | | | | | | | 0.000 |
| (i) | LSCD 'A' | No. | 2 | 18700 | 0.374 | 2 | 0.374 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (ii) | LSCD 'B' | No. | 3 | 17200 | 0.516 | 2 | 0.344 | 1 | 0.172 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iii) | LSCD 'C' | No. | 4 | 15800 | 0.632 | 2 | 0.316 | 2 | 0.316 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iv) | LSCD 'D' | No. | 8 | 14400 | 1.152 | 3 | 0.432 | 2 | 0.288 | 2 | 0.288 | 0 | 0.000 | 1 | 0.144 |
| (v) | LSCD 'E' | No. | 10 | 13000 | 1.300 | 5 | 0.650 | 2 | 0.260 | 2 | 0.260 | 0 | 0.000 | 1 | 0.130 |
| (vi) | Masonry Check Dam | No. | 1 | | 4.954 | 0 | 0.250 | 0 | 0.005 | 0 | 0.587 | 0 | 0.096 | 1 | 4.016 |
| **TOTAL** | | | | | **91.170** | | **15.195** | | **22.792** | | **22.793** | | **18.234** | | **12.156** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | **15%** | **22.793** | | | | | | | | | | | |
| | **For Arable Land** | | | | | | | | | | | | | | |
| 1 | Arable bund | **Hac** | 300 | 320 | 0.960 | 51 | 0.163 | 71 | 0.227 | 65 | 0.208 | 65 | 0.208 | 48 | 0.154 |
| 2 | Agro Forestry | | 1159 | 73 | 0.846 | 254 | 0.185 | 235 | 0.172 | 341 | 0.249 | 231 | 0.169 | 98 | 0.072 |
| 3 | Horticulture Plantation with fencing & Tanka | | 46 | 29400 | 13.524 | 3 | 0.882 | 14 | 4.116 | 17 | 4.998 | 11 | 3.234 | 1 | 0.294 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 3 | 10000 | 0.300 | 1 | 0.100 | 0 | 0.000 | 1 | 0.100 | 0 | 0.000 | 1 | 0.100 |
| 5 | Vermi Compost | | 2 | 36000 | 0.720 | 0 | 0.000 | 0 | 0.000 | 1 | 0.360 | 1 | 0.360 | 0 | 0.000 |
| 6 | Crop Demonstration | No. | 40 | 2000 | 0.800 | 10 | 0.200 | 10 | 0.200 | 10 | 0.200 | 0 | 0.000 | 10 | 0.200 |
| 7 | Homested Kitchen Gerden | | 40 | 1000 | 0.400 | 10 | 0.100 | 10 | 0.100 | 0 | 0.000 | 10 | 0.100 | 10 | 0.100 |
| 8 | Medicinal Plants | | 20 | 3000 | 0.600 | 5 | 0.150 | 5 | 0.150 | 5 | 0.150 | 0 | 0.000 | 5 | 0.150 |

| S. N. | ACTIVITY | Unit | Quantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| | **For Non-arable Land** | | | | | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 1 | V Ditch for PD | | 10 | 2200.00 | 0.220 | 5 | 0.110 | 5 | 0.110 | | 0.000 | | 0.000 | 0 | 0.000 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.00 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 3 | Fencing of PD (by SW) | mt | 0 | 0.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 4 | Fencing of PD (by DCB) | mt | 10 | 0.000 | 2.517 | 10 | 0.000 | 0 | 2.517 | | 0.000 | | 0.000 | 0 | 0.000 |
| 1 | **TOOLKIT, TRAINING & REVOLVING FUND OF SHG** | | | | | | | | | | | | | | |
| (i) | KARIGER | No. | 1 | 26250 | 0.263 | 1 | 0.263 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (ii) | WHITEWASH & PENT | No. | 0 | 40500 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (iii) | TAILORING | No. | 0 | 67000 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | 0 | 0.000 |
| (iv) | MASALA UDYOG | No. | 1 | 42200 | 0.422 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 1 | 0.422 |
| (v) | BICYCLE/MOBILE | No. | 0 | 34000 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (vi) | KUMAHRI UDYOG | No. | 1 | 22000 | 0.220 | | 0.000 | | 0.000 | 1 | 0.220 | | 0.000 | 0 | 0.000 |
| (vii) | ARI TARI UDYOG | No. | 0 | 50000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 2 | **LIVESTOCK MANAGEMENT** | | | | | | | | | | | | | | |
| (i.) | Animal Health Camp | No. | 3 | 20000 | 0.600 | 1 | 0.200 | 1 | 0.200 | 1 | 0.200 | 0 | 0.000 | 0 | 0.000 |
| (ii) | Vaccination | No. | | | 0.200 | | 0.100 | | 0.100 | | 0.000 | | 0.000 | | 0.000 |
| (iii) | Purchase of Bull / Pada | No. | 0 | 20000 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 |
| (iv) | A I | No. | | | 0.201 | | 0.050 | | 0.050 | | 0.000 | | 0.101 | | 0.000 |
| **TOTAL** | | | | | **22.793** | | **2.503** | | **7.942** | | **6.685** | | **4.172** | | **1.491** |
| **IX** | **CONSOLIDATION PHASE** | | **3%** | **4.559** | **4.559** | | | | | | | | **2.735** | | **1.823** |
| | **GRAND TOTAL** | | **100%** | | **151.950** | | **33.501** | | **35.748** | | **34.036** | | **29.167** | | **19.498** |

# CHAPTER V

## ANNUAL ACTION PLAN THROUGH PROJECT FUND

| | | | | | |
|---|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. | |
| **District: JALORE** | Sankarna | **Geographical Area** | | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 963 | Hac. | 963 |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 794 | Hac. | |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 93 | Hac. | |
| | | **2. Govt. / waste /OTHER LAN** | 76 | Hac. | |
| | | **TOTAL COST** | 144.45 | Lac. | |

| S. N. | ACTIVITY | Unit | Quantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| **AI.** | **ADMINISTRATIVE COST** | | **10%** | **14.445** | 14.445 | | 2.889 | | 2.889 | | 2.889 | | 2.889 | |
| **II** | **MONITORING** | | **1%** | **1.445** | 1.445 | | 0.289 | | 0.289 | | 0.289 | | 0.289 | |
| **III** | **EVALUATION** | | **1%** | **1.445** | 1.445 | | 0.289 | | 0.289 | | 0.289 | | 0.289 | |
| **TOTAL** | | | **12%** | **17.334** | **17.334** | | **3.467** | | **3.467** | | **3.467** | | **3.467** | |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | | **4%** | **5.778** | 5.778 | | 5.778 | | 0.000 | | 0.000 | | 0.000 | |
| **II** | **Instituion & CAPACITY BUILDING** | | **5%** | **7.223** | 7.223 | | 4.334 | | 1.300 | | 0.867 | | 0.361 | |
| **III** | **Preparation of DETAILED PROJECT REPORT** | | **1%** | **1.445** | **1.445** | | 1.445 | | 0.000 | | 0.000 | | 0.000 | |
| **TOTAL** | | | **10%** | **14.445** | **14.445** | | **11.556** | | **1.300** | | **0.867** | | **0.361** | |
| **VII** | **watershed Development works(NRM)** | | **60%** | **86.67** | | **15%** | **14.445** | **15%** | **21.6675** | **15%** | **21.6675** | **12%** | **17.334** | **08%** |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | | | | | | | |
| (i) | Earthen Bund | Hac | 288 | 11280 | 32.486 | 34 | 3.835 | 69 | 7.783 | 71 | 8.009 | 55 | 6.204 | 59 |
| (ii) | WHS (Tanka) | | 20 | 82000 | 16.400 | 4 | 3.280 | 4 | 3.280 | 4 | 3.280 | 6 | 4.920 | 2 |
| (iii) | Waste weir | | 12 | 14000 | 1.680 | 3 | 0.420 | 3 | 0.420 | 3 | 0.420 | 3 | 0.420 | 0 |
| (iv) | Gulley Control Structure Nallah Bunding | | 10 | 10600 | 1.060 | 2 | 0.212 | 2 | 0.212 | 2 | 0.212 | 2 | 0.212 | 2 |
| (v) | Farm Pond | | 8 | 50000 | 4.000 | 2 | 1.000 | 2 | 1.000 | 2 | 1.000 | 2 | 1.000 | 0 |
| **TOTAL** | | | | | **55.626** | | **8.747** | | **12.695** | | **12.921** | | **12.756** | |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | | | | | | | |
| (i) | V Ditch for PD | | 10 | 13760 | 1.376 | 0 | 0.000 | 10 | 1.376 | | 0.000 | | 0.000 | 0 |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 |
| (iii) | Dug out Pond | | 5 | 50000 | 2.500 | 2 | 1.000 | 1 | 0.500 | 1 | 0.500 | | 0.000 | 1 |

| S. N. | ACTIVITY | Unit | Quantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY |
| (iv) | WHS (Tanka) | | 8 | 82000 | 6.560 | 2 | 1.640 | 2 | 1.640 | 2 | 1.640 | | 0.000 | 2 |
| (v) | Nallah Bunding with ww | | 40 | 24600 | 9.840 | 2 | 0.492 | 10 | 2.460 | 18 | 4.428 | 10 | 2.460 | 0 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | | | | | | | |

| S. N. | ACTIVITY | Unit | Quantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY |
| (i) | LSCD 'A' | | 8 | 18700 | 1.496 | 2 | 0.374 | 2 | 0.374 | 2 | 0.374 | 2 | 0.374 | 0 |
| (ii) | LSCD 'B' | | 8 | 17200 | 1.376 | 2 | 0.344 | 2 | 0.344 | 2 | 0.344 | 2 | 0.344 | 0 |
| (iii) | LSCD 'C' | | 8 | 15800 | 1.264 | 2 | 0.316 | 2 | 0.316 | 2 | 0.316 | 2 | 0.316 | 0 |
| (iv) | LSCD 'D' | | 8 | 14400 | 1.152 | 2 | 0.288 | 2 | 0.288 | 2 | 0.288 | 2 | 0.288 | 0 |
| (v) | LSCD 'E' | | 8 | 13000 | 1.040 | 2 | 0.260 | 2 | 0.260 | 2 | 0.260 | 2 | 0.260 | 0 |
| (vi) | Masonry Check Dam | | 1 | | 4.440 | 1 | 0.984 | 0 | 1.415 | 0 | 0.597 | 0 | 0.536 | 0 |
| **TOTAL** | | | | | **86.670** | | **14.445** | | **21.668** | | **21.668** | | **17.334** | |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | **15%** | **21.668** | | | | | | | | | | |
| | **For Arable Land** | | | | | | | | | | | | | |
| 1 | Arable bund | | 288 | 320 | 0.922 | 35 | 0.112 | 55 | 0.176 | 65 | 0.208 | 64 | 0.205 | 69 |
| 2 | Agro Forestry | | 625 | 73 | 0.456 | | 0.000 | 121 | 0.088 | 125 | 0.091 | 225 | 0.164 | 154 |
| 3 | Horticulture Plantation with fencing & Tanka | | 20 | 29400 | 5.880 | 5 | 1.470 | 5 | 1.470 | 5 | 1.470 | 5 | 1.470 | 0 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 3 | 10000 | 0.300 | | 0.000 | 1 | 0.100 | 1 | 0.100 | 0 | 0.000 | 1 |
| 5 | Vermi Compost | | 5 | 36000 | 1.800 | 1 | 0.360 | 1 | 0.360 | 1 | 0.360 | 1 | 0.360 | 1 |
| 6 | Crop Demonstration | | 40 | 2000 | 0.800 | 10 | 0.200 | 10 | 0.200 | 12 | 0.240 | 8 | 0.160 | 0 |
| 7 | Homested Kitchen Gerden | | 40 | 1000 | 0.400 | 8 | 0.080 | 12 | 0.120 | 8 | 0.080 | 11 | 0.110 | 1 |
| 8 | Medicinal Plants | | 20 | 3000 | 0.600 | 0 | 0.000 | 0 | 0.000 | 5 | 0.150 | 15 | 0.450 | 0 |
| | **For Non-arable Land** | | | | | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 |
| 1 | V Ditch for PD | | 10 | 2200.000 | 0.220 | | 0.000 | 10 | 0.220 | | 0.000 | | 0.000 | 0 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 |
| 3 | Fencing of PD (by SW) | | 0 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 |
| 4 | Fencing of PD (by DCB) | | 10 | | 2.517 | | 0.000 | 10 | 2.517 | | 0.000 | | 0.000 | 0 |
| 1 | **TOOLKIT, TRAINING & REVOLVING FUND OF SHG** | | | | | | | | | | | | | |
| (i) | KARIGER | | 2 | 26250 | 0.525 | 2 | 0.525 | | 0.000 | | 0.000 | | 0.000 | 0 |

# CHAPTER V

## ANNUAL ACTION PLAN THROUGH PROJECT FUND

| | | | | | |
|---|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | | **UNIT COST** | 15000 Hac. | |
| **District: JALORE** | Leta | | **Geographical Area** | | |
| **AGROCLIMATIC ZONE:IIB** | II B | | **Effective Area** | 627 Hac. | 627 |
| **Name of the BLOCK:** | Jalore | | **Total Arable land** | | |
| **Name of WATERSHED** | JALORE II | | **1. Unirrigated** | 473 Hac. | |
| **CATEGORY OF WATERSHED** | DESERT AREA | | **Total Nonarable land** | | |
| **IRRIGATION PERCENTAGE** | | | **1. Pasture** | 103 Hac. | |
| | | | **2. Govt. / waste /OTHER LAN** | 51 Hac. | |
| | | | **TOTAL COST** | 94.05 Lac. | |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| **AI.** | **ADMINISTRATIVE COST** | | **10%** | **9.405** | 9.405 | | 1.881 | | 1.881 | | 1.881 | | 1.881 | | 1.881 |
| **II** | **MONITORING** | | **1%** | **0.941** | 0.941 | | 0.188 | | 0.188 | | 0.188 | | 0.188 | | 0.188 |
| **III** | **EVALUATION** | | **1%** | **0.941** | 0.941 | | 0.188 | | 0.188 | | 0.188 | | 0.188 | | 0.188 |
| | **TOTAL** | | **12%** | **11.286** | **11.286** | | **2.257** | | **2.257** | | **2.257** | | **2.257** | | **2.257** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | | **4%** | **3.76** | 3.762 | | 3.762 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | | **5%** | **4.70** | 4.703 | | 2.822 | | 0.846 | | 0.564 | | 0.235 | | 0.235 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | | **1%** | **0.94** | **0.941** | | 0.941 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| | **TOTAL** | | **10%** | **9.405** | **9.405** | | **7.524** | | **0.846** | | **0.564** | | **0.235** | | **0.235** |
| **VII** | **watershed Development works(NRM)** | | **60%** | **56.43** | | **10%** | **9.405** | **15%** | **14.1075** | **15%** | **14.1075** | **12%** | **11.286** | **08%** | **7.524** |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | Earthen Bund | | 135 | 11280 | 15.228 | 20 | 2.256 | 35 | 3.948 | 47 | 5.302 | 23 | 2.594 | ` | 1.128 |
| (ii) | WHS (Tanka) | | 25 | 82000 | 20.500 | 3 | 2.460 | 5 | 4.100 | 5 | 4.100 | 9 | 7.380 | 3 | 2.460 |
| (iii) | Waste weir | | 4 | 14000 | 0.560 | 1 | 0.140 | 1 | 0.140 | 1 | 0.140 | 1 | 0.140 | 0 | 0.000 |
| (iv) | Gulley Control Structure Nallah Bunding | | 8 | 10600 | 0.848 | 2 | 0.212 | 1 | 0.106 | 2 | 0.212 | 2 | 0.212 | 1 | 0.106 |
| (v) | Farm Pond | | 8 | 50000 | 4.000 | 1 | 0.500 | 2 | 1.000 | 2 | 1.000 | 1 | 0.500 | 2 | 1.000 |
| | **TOTAL** | | | | **41.136** | | **5.568** | | **9.294** | | **10.754** | | **10.826** | | **4.694** |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | V Ditch for PD | | 10 | 13760 | 1.376 | | | 10 | 1.376 | | 0.000 | | 0.000 | 0 | 0.000 |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (iii) | Dug out Pond | | 4 | 50000 | 2.000 | 2 | 1.000 | 1 | 0.500 | 1 | 0.500 | | 0.000 | 0 | 0.000 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| (iv) | WHS (Tanka) | | 8 | 82000 | 6.560 | 2 | 1.640 | 2 | 1.640 | 2 | 1.640 | | 0.000 | 2 | 1.640 |
| (v) | Nallah Bunding with ww | | 8 | 24600 | 1.968 | 2 | 0.492 | 2 | 0.492 | 2 | 0.492 | 1 | 0.246 | 1 | 0.246 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | | | | | | | 0 | |
| (i) | LSCD 'A' | | 4 | 18700 | 0.748 | 1 | 0.187 | 1 | 0.187 | 1 | 0.187 | 1 | 0.187 | 0 | 0.000 |
| (ii) | LSCD 'B' | | 4 | 17200 | 0.688 | 1 | 0.172 | 1 | 0.172 | 1 | 0.172 | 0 | 0.000 | 1 | 0.172 |
| (iii) | LSCD 'C' | | 4 | 15800 | 0.632 | 1 | 0.158 | 1 | 0.158 | 0 | 0.000 | 0 | 0.000 | 2 | 0.316 |
| (iv) | LSCD 'D' | | 4 | 14400 | 0.576 | 0 | 0.000 | 2 | 0.288 | 1 | 0.144 | 0 | 0.000 | 1 | 0.144 |
| (v) | LSCD 'E' | | 4 | 13000 | 0.520 | 1 | 0.130 | 0 | 0.000 | 1 | 0.130 | 0 | 0.000 | 2 | 0.260 |
| (vi) | Masonry Check Dam | | 0 | | 0.226 | 0 | 0.058 | 0 | 0.001 | 0 | 0.089 | 0 | 0.027 | 0 | 0.051 |
| **TOTAL** | | | | | **56.430** | | **9.405** | | **14.108** | | **14.108** | | **11.286** | | **7.523** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | **15%** | **14.108** | | | | | | | | | | | |
| | **For Arable Land** | | | | | | | | | | | | | | |
| 1 | Arable bund | | 135 | 320 | 0.432 | 20 | 0.064 | 15 | 0.048 | 55 | 0.176 | 20 | 0.064 | 25 | 0.080 |
| 2 | Agro Forestry | | 20 | 73 | 0.015 | 5 | 0.004 | 5 | 0.004 | 5 | 0.004 | 5 | 0.004 | 0 | 0.000 |
| 3 | Horticulture Plantation with fencing & Tanka | | 25 | 29400 | 7.350 | 5 | 1.470 | 5 | 1.470 | 5 | 1.470 | 8 | 2.352 | 2 | 0.588 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 2 | 10000 | 0.200 | | 0.000 | 1 | 0.100 | 0 | 0.000 | 0 | 0.000 | 1 | 0.100 |
| 5 | Vermi Compost | | 1 | 36000 | 0.360 | 1 | 0.360 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 6 | Crop Demonstration | | 5 | 2000 | 0.100 | 1 | 0.020 | 1 | 0.020 | 1 | 0.020 | 1 | 0.020 | 1 | 0.020 |
| 7 | Homested Kitchen Gerden | | 3 | 1000 | 0.030 | 1 | 0.010 | 0 | 0.000 | 0 | 0.000 | 1 | 0.010 | 1 | 0.010 |
| 8 | Medicinal Plants | | 4 | 3000 | 0.120 | 1 | 0.030 | 1 | 0.030 | 1 | 0.030 | 0 | 0.000 | 1 | 0.030 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| | **For Non-arable Land** | | | | | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 1 | V Ditch for PD | | 10 | 2200.000 | 0.220 | 2 | 0.044 | 2 | 0.044 | 2 | 0.044 | 2 | 0.044 | 2 | 0.044 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 4 | Fencing of PD (by DCB) | | 10 | | 2.517 | 0 | 0.000 | 10 | 2.517 | 0 | 0.000 | | 0.000 | 0 | 0.000 |
| 1 | **TOOLKIT, TRAINING & REVOLVING FUND OF SHG** | | | | | | | | | | | | | | |
| (i) | KARIGER | | 2 | 26250 | 0.525 | 0 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 2 | 0.525 |
| (ii) | WHITEWASH & PENT | | 2 | 40500 | 0.810 | | 0.000 | 0 | 0.000 | | 0.000 | 0 | 0.000 | 2 | 0.810 |
| (iii) | TAILORING | | 1 | 67000 | 0.670 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | 1 | 0.670 |
| (iv) | MASALA UDYOG | | 0 | 42200 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (v) | BICYCLE/MOBILE | | 0 | 34000 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (vi) | KUMAHRI UDYOG | | 0 | 22000 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | 0 | 0.000 |
| (vii) | ARI TARI UDYOG | | 0 | 50000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 2 | **LIVESTOCK MANAGEMENT** | | | | | | | | | | | | | | |
| (i.) | Animal Health Camp | | 0 | 20000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (ii) | Vaccination | | 0 | | 0.500 | | 0.100 | | 0.100 | | 0.100 | | 0.100 | 0 | 0.100 |
| (iii) | Purchase of Bull / Pada | | 0 | 25000 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | | 0.000 | 0 | 0.000 |
| (iv) | A I | | | | 0.259 | | 0.200 | | 0.000 | | 0.000 | | 0.059 | 0 | 0.000 |
| | **TOTAL** | | | | **14.108** | | **2.302** | | **4.333** | | **1.844** | | **2.653** | | **2.977** |
| **IX** | **CONSOLIDATION PHASE** | | **3%** | **2.822** | **2.822** | | | | | | | | **1.693** | | **1.129** |
| | **GRAND TOTAL** | | **100%** | | **94.050** | | **21.488** | | **21.544** | | **18.773** | | **18.124** | | **14.121** |

# CHAPTER V

## ANNUAL ACTION PLAN THROUGH PROJECT FUND

| | | | | | |
|---|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. | |
| **District: JALORE** | Godan | **Geographical Area** | | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 489 | Hac. | 489 |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 378 | Hac. | |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 30 | Hac. | |
| | | **2. Govt. / waste /OTHER LAN** | 81 | Hac. | |
| | | **TOTAL COST** | 73.35 | Lac. | |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| **AI.** | **ADMINISTRATIVE COST** | | **10%** | **7.335** | 7.335 | | 1.467 | | 1.467 | | 1.467 | | 1.467 | | 1.467 |
| **II** | **MONITORING** | | **1%** | **0.734** | 0.734 | | 0.147 | | 0.147 | | 0.147 | | 0.147 | | 0.147 |
| **III** | **EVALUATION** | | **1%** | **0.734** | 0.734 | | 0.147 | | 0.147 | | 0.147 | | 0.147 | | 0.147 |
| **TOTAL** | | | **12%** | **8.802** | **8.802** | | **1.760** | | **1.760** | | **1.760** | | **1.760** | | **1.760** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | | **4%** | **2.93** | 2.934 | | 2.934 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | | **5%** | **3.67** | 3.668 | | 2.201 | | 0.660 | | 0.440 | | 0.183 | | 0.183 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | | **1%** | **0.73** | **0.734** | | 0.734 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | | **10%** | **7.335** | **7.335** | | **5.868** | | **0.660** | | **0.440** | | **0.183** | | **0.183** |
| **VII** | **watershed Development works(NRM)** | | **60%** | **44.01** | | **10%** | **7.335** | **15%** | **11.0025** | **15%** | **11.0025** | **12%** | **8.802** | **08%** | **5.868** |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | Earthen Bund | | 108 | 11280 | 12.182 | 23 | 2.594 | 33 | 3.722 | 31 | 3.497 | 21 | 2.369 | 0 | 0.000 |
| (ii) | WHS (Tanka) | | 20 | 82000 | 16.400 | 4 | 3.280 | 3 | 2.460 | 5 | 4.100 | 6 | 4.920 | 2 | 1.640 |
| (iii) | Waste weir | | 5 | 14000 | 0.700 | 1 | 0.140 | 1 | 0.140 | 1 | 0.140 | 1 | 0.140 | 1 | 0.140 |
| (iv) | Gulley Control Structure Nallah Bunding | | 5 | 10600 | 0.530 | 1 | 0.106 | 1 | 0.106 | 1 | 0.106 | 1 | 0.106 | 1 | 0.106 |
| (v) | Farm Pond | | 2 | 50000 | 1.000 | 0 | 0.000 | 1 | 0.500 | 1 | 0.500 | 0 | 0.000 | 0 | 0.000 |
| **TOTAL** | | | | | **30.812** | | **6.120** | | **6.928** | | **8.343** | | **7.535** | | **1.886** |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | V Ditch for PD | | 10 | 13760 | 1.376 | | | 10 | 1.376 | | 0.000 | | 0.000 | 0 | 0.000 |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (iii) | Dug out Pond | | 4 | 50000 | 2.000 | 1 | 0.500 | 1 | 0.500 | 1 | 0.500 | | 0.000 | 1 | 0.500 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| (iv) | WHS (Tanka) | | 2 | 82000 | 1.640 | 0 | 0.000 | 1 | 0.820 | 1 | 0.820 | | 0.000 | 0 | 0.000 |
| (v) | Nallah Bunding with ww | | 4 | 24600 | 0.984 | 0 | 0.000 | 2 | 0.492 | 2 | 0.492 | 0 | 0.000 | 0 | 0.000 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | 0.000 | | | | | | | | | 0 | |
| (i) | LSCD 'A' | | 4 | 18700 | 0.748 | 1 | 0.187 | 1 | 0.187 | 1 | 0.187 | 1 | 0.187 | 0 | 0.000 |
| (ii) | LSCD 'B' | | 4 | 17200 | 0.688 | 0 | 0.000 | 1 | 0.172 | 1 | 0.172 | 1 | 0.172 | 1 | 0.172 |
| (iii) | LSCD 'C' | | 4 | 15800 | 0.632 | 1 | 0.158 | 1 | 0.158 | 1 | 0.158 | 1 | 0.158 | 0 | 0.000 |
| (iv) | LSCD 'D' | | 4 | 14400 | 0.576 | 1 | 0.144 | 1 | 0.144 | 1 | 0.144 | 1 | 0.144 | 0 | 0.000 |
| (v) | LSCD 'E' | | 4 | 13000 | 0.520 | 1 | 0.130 | 1 | 0.130 | 1 | 0.130 | 1 | 0.130 | 0 | 0.000 |
| (vi) | Masonry Check Dam | | 1 | | 4.034 | 1 | 0.096 | 0 | 0.096 | 0 | 0.057 | 0 | 0.476 | 0 | 3.309 |
| **TOTAL** | | | | | **44.010** | | **7.335** | | **11.003** | | **11.003** | | **8.802** | | **5.867** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | **15%** | **11.003** | | | | | | | | | | | |
| | **For Arable Land** | | | | | | | | | | | | | | |
| 1 | Arable bund | | 108 | 320 | 0.346 | 15 | 0.048 | 20 | 0.064 | 25 | 0.080 | 24 | 0.077 | 24 | 0.077 |
| 2 | Agro Forestry | | 250 | 73 | 0.183 | 25 | 0.018 | 150 | 0.110 | 50 | 0.037 | 0 | 0.000 | 25 | 0.018 |
| 3 | Horticulture Plantation with fencing & Tanka | | 20 | 29400 | 5.880 | 10 | 2.940 | 10 | 2.940 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 5 | 10000 | 0.500 | 1 | 0.100 | 1 | 0.100 | 1 | 0.100 | 1 | 0.100 | 1 | 0.100 |
| 5 | Vermi Compost | | 0 | 36000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 6 | Crop Demonstration | | 5 | 2000 | 0.100 | 1 | 0.020 | 1 | 0.020 | 1 | 0.020 | 1 | 0.020 | 1 | 0.020 |
| 7 | Homested Kitchen Gerden | | 5 | 1000 | 0.050 | 1 | 0.010 | 1 | 0.010 | 1 | 0.010 | 1 | 0.010 | 1 | 0.010 |
| 8 | Medicinal Plants | | 5 | 3000 | 0.150 | 1 | 0.030 | 1 | 0.030 | 1 | 0.030 | 1 | 0.030 | 1 | 0.030 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| | **For Non-arable Land** | | | | | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 1 | V Ditch for PD | | 10 | 2200.000 | 0.220 | | 0.000 | 10 | 0.220 | | 0.000 | | 0.000 | 0 | 0.000 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 4 | Fencing of PD (by DCB) | | 10 | | 2.517 | 0 | 0.000 | 10 | 2.517 | | 0.000 | | 0.000 | 0 | 0.000 |
| 1 | **TOOLKIT, TRAINING & REVOLVING FUND OF SHG** | | | | | | | | | | | | | | |
| (i) | KARIGER | | 1 | 26250 | 0.263 | 1 | 0.263 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (ii) | WHITEWASH & PENT | | 0 | 40500 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (iii) | TAILORING | | 0 | 67000 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | 0 | 0.000 |
| (iv) | MASALA UDYOG | | 0 | 42200 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (v) | BICYCLE/MOBILE | | 0 | 34000 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (vi) | KUMAHRI UDYOG | | 0 | 22000 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | 0 | 0.000 |
| (vii) | ARI TARI UDYOG | | 0 | 50000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 2 | **LIVESTOCK MANAGEMENT** | | | | | | | | | | | | | | |
| (i.) | Animal Health Camp | | 0 | 20000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (ii) | Vaccination | | | | 0.500 | | 0.100 | | 0.100 | | 0.100 | | 0.100 | 0 | 0.100 |
| (iii) | Purchase of Bull / Pada | | 0 | 25000 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | | 0.000 | 0 | 0.000 |
| (iv) | A I | | | | 0.295 | | 0.200 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.095 |
| **TOTAL** | | | | | **11.003** | | **3.729** | | **6.111** | | **0.377** | | **0.337** | | **0.450** |
| **IX** | **CONSOLIDATION PHASE** | | **3%** | **2.201** | **2.201** | | | | | | | | **1.320** | | **0.880** |
| | **GRAND TOTAL** | | **100%** | | **73.350** | | **18.693** | | **19.534** | | **13.580** | | **12.403** | | **9.141** |

# CHAPTER V

## ANNUAL ACTION PLAN THROUGH PROJECT FUND

| | | | | | |
|---|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | | **UNIT COST** | 15000 Hac. | |
| **District: JALORE** | Badanwadi | | **Geographical Area** | | |
| **AGROCLIMATIC ZONE:IIB** | II B | | **Effective Area** | 741 Hac. | 741 |
| **Name of the BLOCK:** | Jalore | | **Total Arable land** | | |
| **Name of WATERSHED** | JALORE II | | **1. Unirrigated** | 626 Hac. | |
| **CATEGORY OF WATERSHED** | DESERT AREA | | **Total Nonarable land** | | |
| **IRRIGATION PERCENTAGE** | | | **1. Pasture** | 30 Hac. | |
| | | | **2. Govt. / waste /OTHER LAN** | 85 Hac. | |
| | | | **TOTAL COST** | 111.15 Lac. | |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| **AI.** | **ADMINISTRATIVE COST** | | **10%** | **11.115** | 11.115 | | 2.223 | | 2.223 | | 2.223 | | 2.223 | | 2.223 |
| **II** | **MONITORING** | | **1%** | **1.112** | 1.112 | | 0.222 | | 0.222 | | 0.222 | | 0.222 | | 0.222 |
| **III** | **EVALUATION** | | **1%** | **1.112** | 1.112 | | 0.222 | | 0.222 | | 0.222 | | 0.222 | | 0.222 |
| **TOTAL** | | | **12%** | **13.338** | **13.338** | | **2.668** | | **2.668** | | **2.668** | | **2.668** | | **2.668** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | | **4%** | **4.45** | 4.446 | | 4.446 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | | **5%** | **5.56** | 5.558 | | 3.335 | | 1.000 | | 0.667 | | 0.278 | | 0.278 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | | **1%** | **1.11** | **1.112** | | 1.112 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | | **10%** | **11.115** | **11.115** | | **8.892** | | **1.000** | | **0.667** | | **0.278** | | **0.278** |
| **VII** | **watershed Development works(NRM)** | | **60%** | **66.69** | | **10%** | **11.115** | **15%** | **16.6725** | **15%** | **16.6725** | **12%** | **13.338** | **08%** | **8.892** |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | Earthen Bund | | 159 | 11280 | 17.935 | 21 | 2.369 | 56 | 6.317 | 45 | 5.076 | 35 | 3.948 | 2 | 0.226 |
| (ii) | WHS (Tanka) | | 27 | 82000 | 22.140 | 4 | 3.280 | 8 | 6.560 | 7 | 5.740 | 6 | 4.920 | 2 | 1.640 |
| (iii) | Waste weir | | 5 | 14000 | 0.700 | 2 | 0.280 | 1 | 0.140 | 1 | 0.140 | 1 | 0.140 | 0 | 0.000 |
| (iv) | Gulley Control Structure Nallah Bunding | | 5 | 10600 | 0.530 | 1 | 0.106 | 1 | 0.106 | 1 | 0.106 | 1 | 0.106 | 1 | 0.106 |
| (v) | Farm Pond | | 8 | 50000 | 4.000 | 3 | 1.500 | 2 | 1.000 | 2 | 1.000 | 1 | 0.500 | 0 | 0.000 |
| **TOTAL** | | | | | **45.305** | | **7.535** | | **14.123** | | **12.062** | | **9.614** | | **1.972** |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | V Ditch for PD | | 0 | 13760 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (iii) | Dug out Pond | | 5 | 50000 | 2.500 | 1 | 0.500 | 1 | 0.500 | 1 | 0.500 | 2 | 1.000 | 0 | 0.000 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| (iv) | WHS (Tanka) | | 2 | 82000 | 1.640 | 1 | 0.820 | 0 | 0.000 | 1 | 0.820 | | 0.000 | 0 | 0.000 |
| (v) | Nallah Bunding with ww | | 5 | 24600 | 1.230 | 2 | 0.492 | 2 | 0.492 | 0 | 0.000 | 0 | 0.000 | 1 | 0.246 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | | | | | | | 0 | |
| (i) | LSCD 'A' | | 15 | 18700 | 2.805 | 2 | 0.374 | 2 | 0.374 | 5 | 0.935 | 2 | 0.374 | 4 | 0.748 |
| (ii) | LSCD 'B' | | 15 | 17200 | 2.580 | 2 | 0.344 | 3 | 0.516 | 4 | 0.688 | 2 | 0.344 | 4 | 0.688 |
| (iii) | LSCD 'C' | | 15 | 15800 | 2.370 | 2 | 0.316 | 3 | 0.474 | 2 | 0.316 | 3 | 0.474 | 5 | 0.790 |
| (iv) | LSCD 'D' | | 15 | 14400 | 2.160 | 3 | 0.432 | 0 | 0.000 | 4 | 0.576 | 4 | 0.576 | 4 | 0.576 |
| (v) | LSCD 'E' | | 15 | 13000 | 1.950 | 2 | 0.260 | 1 | 0.130 | 5 | 0.650 | 5 | 0.650 | 2 | 0.260 |
| (vi) | Masonry Check Dam | | 1 | | 4.150 | 0 | 0.042 | 0 | 0.064 | 0 | 0.126 | 0 | 0.306 | 1 | 3.612 |
| **TOTAL** | | | | | **66.690** | | **11.115** | | **16.673** | | **16.673** | | **13.338** | | **8.892** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | **15%** | **16.673** | 0.000 | | | | | | | | | | |
| | **For Arable Land** | | | | | | | | | | | | | | |
| 1 | Arable bund | | 159 | 320 | 0.509 | 25 | 0.080 | 36 | 0.115 | 39 | 0.125 | 24 | 0.077 | 35 | 0.112 |
| 2 | Agro Forestry | | 1500 | 73 | 1.095 | 125 | 0.091 | 150 | 0.110 | 325 | 0.237 | 250 | 0.183 | 650 | 0.475 |
| 3 | Horticulture Plantation with fencing & Tanka | | 27 | 29400 | 7.938 | 10 | 2.940 | 10 | 2.940 | 5 | 1.470 | 2 | 0.588 | 0 | 0.000 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 4 | 10000 | 0.400 | | 0.000 | 1 | 0.100 | 1 | 0.100 | 1 | 0.100 | 1 | 0.100 |
| 5 | Vermi Compost | | 1 | 36000 | 0.360 | 1 | 0.360 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 6 | Crop Demonstration | | 2 | 2000 | 0.040 | 0 | 0.000 | 0 | 0.000 | 1 | 0.020 | 0 | 0.000 | 1 | 0.020 |
| 7 | Homested Kitchen Gerden | | 2 | 1000 | 0.020 | 1 | 0.010 | 0 | 0.000 | 1 | 0.010 | 0 | 0.000 | 0 | 0.000 |
| 8 | Medicinal Plants | | 2 | 3000 | 0.060 | 0 | 0.000 | 1 | 0.030 | 0 | 0.000 | 1 | 0.030 | 0 | 0.000 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| | **For Non-arable Land** | | | | | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 1 | V Ditch for PD | | 0 | 2200.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 4 | Fencing of PD (by DCB) | | 0 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 1 | **TOOLKIT, TRAINING & REVOLVING FUND OF SHG** | | | | | | | | | | | | | | |
| (i) | KARIGER | | 4 | 26250 | 1.050 | 2 | 0.525 | | 0.000 | | 0.000 | | 0.000 | 2 | 0.525 |
| (ii) | WHITEWASH & PENT | | 1 | 40500 | 0.405 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 1 | 0.405 |
| (iii) | TAILORING | | 0 | 67000 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | 0 | 0.000 |
| (iv) | MASALA UDYOG | | 1 | 42200 | 0.422 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 1 | 0.422 |
| (v) | BICYCLE/MOBILE | | 1 | 34000 | 0.340 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 | 1 | 0.340 |
| (vi) | KUMAHRI UDYOG | | 0 | 22000 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | 0 | 0.000 |
| (vii) | ARI TARI UDYOG | | 1 | 50000 | 0.500 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 1 | 0.500 |
| 2 | **LIVESTOCK MANAGEMENT** | | | | | | | | | | | | | | |
| (i.) | Animal Health Camp | | 10 | 20000 | 2.000 | 2 | 0.400 | 1 | 0.200 | 0 | 0.000 | 2 | 0.400 | 5 | 1.000 |
| (ii) | Vaccination | | | | 0.500 | | 0.100 | | 0.100 | | 0.100 | | 0.100 | 0 | 0.100 |
| (iii) | Purchase of Bull / Pada | | 1 | 25000 | 0.250 | | 0.000 | 1 | 0.250 | 0 | 0.000 | | 0.000 | 0 | 0.000 |
| (iv) | A I | | | | 0.784 | | 0.200 | | 0.200 | | 0.200 | | 0.100 | 0 | 0.084 |
| **TOTAL** | | | | | **16.673** | | **4.706** | | **4.045** | | **2.262** | | **1.577** | | **4.083** |
| **IX** | **CONSOLIDATION PHASE** | | **3%** | **3.335** | **3.335** | | | | | | | | **2.001** | | **1.334** |
| | **GRAND TOTAL** | | **100%** | | **111.150** | | **27.381** | | **24.385** | | **22.270** | | **19.861** | | **17.253** |

111.150

# CHAPTER V

## ANNUAL ACTION PLAN THROUGH PROJECT FUND

| | | | | | |
|---|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. | |
| **District: JALORE** | Oun | **Geographical Area** | | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 253 | Hac. | 253 |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 222 | Hac. | |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 16 | Hac. | |
| | | **2. Govt. / waste /OTHER LAN** | 15 | Hac. | |
| | | **TOTAL COST** | 37.95 | Lac. | |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| **AI.** | **ADMINISTRATIVE COST** | | **10%** | **3.795** | 3.795 | | 0.759 | | 0.759 | | 0.759 | | 0.759 | | 0.759 |
| **II** | **MONITORING** | | **1%** | **0.380** | 0.380 | | 0.076 | | 0.076 | | 0.076 | | 0.076 | | 0.076 |
| **III** | **EVALUATION** | | **1%** | **0.380** | 0.380 | | 0.076 | | 0.076 | | 0.076 | | 0.076 | | 0.076 |
| **TOTAL** | | | **12%** | **4.554** | **4.554** | | **0.911** | | **0.911** | | **0.911** | | **0.911** | | **0.911** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | | **4%** | **1.52** | 1.518 | | 1.518 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | | **5%** | **1.90** | 1.898 | | 1.139 | | 0.342 | | 0.228 | | 0.095 | | 0.095 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | | **1%** | **0.38** | **0.380** | | 0.380 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | | **10%** | **3.795** | **3.795** | | **3.036** | | **0.342** | | **0.228** | | **0.095** | | **0.095** |
| **VII** | **watershed Development works(NRM)** | | **60%** | **22.77** | | **10%** | **3.795** | **15%** | **5.6925** | **15%** | **5.6925** | **12%** | **4.554** | **08%** | **3.036** |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | Earthen Bund | | 46 | 11280 | 5.189 | 9 | 1.015 | 20 | 2.256 | 12 | 1.354 | 5 | 0.564 | 0 | 0.000 |
| (ii) | WHS (Tanka) | | 5 | 82000 | 4.100 | 1 | 0.820 | 2 | 1.640 | 2 | 1.640 | 0 | 0.000 | 0 | 0.000 |
| (iii) | Waste weir | | 5 | 14000 | 0.700 | 1 | 0.140 | 0 | 0.000 | 3 | 0.420 | 1 | 0.140 | 0 | 0.000 |
| (iv) | Gulley Control Structure Nallah Bunding | | 5 | 10600 | 0.53 | 1 | 0.106 | 1 | 0.106 | 1 | 0.106 | 2 | 0.212 | 0 | 0.000 |
| (v) | Farm Pond | | 2 | 50000 | 1.00 | 1 | 0.500 | 0 | 0.000 | 1 | 0.500 | 0 | 0.000 | 0 | 0.000 |
| **TOTAL** | | | | | **11.519** | | **2.581** | | **4.002** | | **4.020** | | **0.916** | | **0.000** |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | V Ditch for PD | | 0 | 13760 | 0.00 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.00 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (iii) | Dug out Pond | | 5 | 50000 | 2.50 | 0 | 0.000 | 2 | 1.000 | 2 | 1.000 | 1 | 0.500 | 0 | 0.000 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| (iv) | WHS (Tanka) | | 2 | 82000 | 1.64 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 2 | 1.640 | 0 | 0.000 |
| (v) | Nallah Bunding with ww | | 5 | 24600 | 1.23 | 0 | 0.000 | 2 | 0.492 | 1 | 0.246 | 2 | 0.492 | 0 | 0.000 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | | | | | | | 0 | |
| (i) | LSCD 'A' | | 2 | 18700 | 0.37 | 1 | 0.187 | 0 | 0.000 | 0 | 0.000 | 1 | 0.187 | 0 | 0.000 |
| (ii) | LSCD 'B' | | 2 | 17200 | 0.34 | 1 | 0.172 | 0 | 0.000 | 0 | 0.000 | 1 | 0.172 | 0 | 0.000 |
| (iii) | LSCD 'C' | | 2 | 15800 | 0.32 | 1 | 0.158 | 1 | 0.158 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iv) | LSCD 'D' | | 2 | 14400 | 0.29 | 1 | 0.144 | 0 | 0.000 | 1 | 0.144 | 0 | 0.000 | 0 | 0.000 |
| (v) | LSCD 'E' | | 2 | 13000 | 0.26 | 1 | 0.130 | 0 | 0.000 | 1 | 0.130 | 0 | 0.000 | 0 | 0.000 |
| (vi) | Masonry Check Dam | | 1 | | 4.299 | 0 | 0.423 | 0 | 0.040 | 0 | 0.153 | 1 | 0.647 | 0 | 3.036 |
| **TOTAL** | | | | | **22.770** | | **3.795** | | **5.692** | | **5.693** | | **4.554** | | **3.036** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | **15%** | **5.693** | | | | | | | | | | | |
| | **For Arable Land** | | | | | | | | | | | | | | |
| 1 | Arable bund | | 46 | 320 | 0.15 | 20 | 0.064 | 10 | 0.032 | 8 | 0.026 | 7 | 0.022 | 1 | 0.003 |
| 2 | Agro Forestry | | 250 | 73 | 0.18 | 75 | 0.055 | 50 | 0.037 | 50 | 0.037 | 75 | 0.055 | 0 | 0.000 |
| 3 | Horticulture Plantation with fencing & Tanka | | 5 | 29400 | 1.47 | 1 | 0.294 | 2 | 0.588 | 1 | 0.294 | 1 | 0.294 | 0 | 0.000 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 2 | 10000 | 0.20 | | 0.000 | 1 | 0.100 | 1 | 0.100 | 0 | 0.000 | 0 | 0.000 |
| 5 | Vermi Compost | | 0 | 36000 | 0.00 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 6 | Crop Demonstration | | 5 | 2000 | 0.10 | 1 | 0.020 | 0 | 0.000 | 2 | 0.040 | 0 | 0.000 | 2 | 0.040 |
| 7 | Homested Kitchen Gerden | | 5 | 1000 | 0.05 | 2 | 0.020 | 1 | 0.010 | 0 | 0.000 | 0 | 0.000 | 2 | 0.020 |
| 8 | Medicinal Plants | | 2 | 3000 | 0.06 | 1 | 0.030 | 0 | 0.000 | 0 | 0.000 | 1 | 0.030 | 0 | 0.000 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| | **For Non-arable Land** | | | | | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 1 | V Ditch for PD | | 0 | 2200.000 | 0.00 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.00 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | | 0.00 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 4 | Fencing of PD (by DCB) | | 0 | | 2.517 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 2.517 |
| 1 | **TOOLKIT, TRAINING & REVOLVING FUND OF SHG** | | | | | | | | | | | | | | |
| (i) | KARIGER | | 1 | 26250 | 0.263 | 1 | 0.263 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (ii) | WHITEWASH & PENT | | 0 | 40500 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (iii) | TAILORING | | 0 | 67000 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | 0 | 0.000 |
| (iv) | MASALA UDYOG | | 0 | 42200 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (v) | BICYCLE/MOBILE | | 0 | 34000 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (vi) | KUMAHRI UDYOG | | 0 | 22000 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | 0 | 0.000 |
| (vii) | ARI TARI UDYOG | | 0 | 50000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 2 | **LIVESTOCK MANAGEMENT** | | | | | | | | | | | | | 0 | |
| (i.) | Animal Health Camp | | 0 | 20000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (ii) | Vaccination | | | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (iii) | Purchase of Bull / Pada | | 0 | 25000 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | | 0.000 | 0 | 0.000 |
| (iv) | A I | | | | 0.703 | | 0.200 | | 0.300 | | 0.000 | | 0.100 | 0 | 0.103 |
| **TOTAL** | | | | | **5.692** | | **0.945** | | **1.067** | | **0.496** | | **0.501** | | **2.683** |
| **IX** | **CONSOLIDATION PHASE** | | **3%** | **1.139** | **1.139** | | | | | | | | **0.683** | | **0.455** |
| | **GRAND TOTAL** | | **100%** | | **37.950** | | **8.687** | | **8.011** | | **7.327** | | **6.744** | | **7.180** |

# CHAPTER V

## ANNUAL ACTION PLAN THROUGH PROJECT FUND

| | | | | | |
|---|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. | |
| **District: JALORE** | Desu | **Geographical Area** | | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 112 | Hac. | 112 |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 111 | Hac. | |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | | Hac. | |
| | | **2. Govt. / waste /OTHER LAN** | 1 | Hac. | |
| | | **TOTAL COST** | 16.80 | Lac. | |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| **AI.** | **ADMINISTRATIVE COST** | | **10%** | **1.680** | 1.680 | | 0.336 | | 0.336 | | 0.336 | | 0.336 | |
| **II** | **MONITORING** | | **1%** | **0.168** | 0.168 | | 0.034 | | 0.034 | | 0.034 | | 0.034 | |
| **III** | **EVALUATION** | | **1%** | **0.168** | 0.168 | | 0.034 | | 0.034 | | 0.034 | | 0.034 | |
| **TOTAL** | | | **12%** | **2.016** | **2.016** | | **0.403** | | **0.403** | | **0.403** | | **0.403** | |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | | **4%** | **0.67** | 0.672 | | 0.672 | | 0.000 | | 0.000 | | 0.000 | |
| **II** | **Instituion & CAPACITY BUILDING** | | **5%** | **0.84** | 0.840 | | 0.504 | | 0.151 | | 0.101 | | 0.042 | |
| **III** | **Preparation of DETAILED PROJECT REPORT** | | **1%** | **0.17** | **0.168** | | 0.168 | | 0.000 | | 0.000 | | 0.000 | |
| **TOTAL** | | | **10%** | **1.680** | **1.680** | | **1.344** | | **0.151** | | **0.101** | | **0.042** | |
| **VII** | **watershed Development works(NRM)** | | **60%** | **10.08** | | **10%** | **1.68** | **15%** | **2.52** | **15%** | **2.52** | **12%** | **2.016** | **08%** |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | | | | | | | |
| (i) | Earthen Bund | | 25 | 11280 | 2.820 | 5 | 0.564 | 4 | 0.451 | 4 | 0.451 | 11 | 1.241 | 1 |
| (ii) | WHS (Tanka) | | 2 | 82000 | 1.640 | 0 | 0.000 | 2 | 1.640 | 0 | 0.000 | 0 | 0.000 | 0 |
| (iii) | Waste weir | | 5 | 14000 | 0.700 | 2 | 0.280 | 1 | 0.140 | 2 | 0.280 | 0 | 0.000 | 0 |
| (iv) | Gulley Control Structure Nallah Bunding | | 2 | 10600 | 0.212 | 1 | 0.106 | 0 | 0.000 | 1 | 0.106 | 0 | 0.000 | 0 |
| (v) | Farm Pond | | 1 | 50000 | 0.500 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 1 |
| **TOTAL** | | | | | **5.872** | | **0.950** | | **2.231** | | **0.837** | | **1.241** | |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | | | | | | | |
| (i) | V Ditch for PD | | 0 | 13760 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 |
| (iii) | Dug out Pond | | 1 | 50000 | 0.500 | 0 | 0.000 | 0 | 0.000 | 1 | 0.500 | | 0.000 | 0 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY |
| (iv) | WHS (Tanka) | | 0 | 82000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | | 0.000 | 0 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY |
| (v) | Nallah Bunding with ww | | 0 | 24600 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | | | | | | | |
| (i) | LSCD 'A' | | 2 | 18700 | 0.374 | 1 | 0.187 | 0 | 0.000 | 1 | 0.187 | 0 | 0.000 | 0 |
| (ii) | LSCD 'B' | | 2 | 17200 | 0.344 | 1 | 0.172 | 1 | 0.172 | 0 | 0.000 | 0 | 0.000 | 0 |
| (iii) | LSCD 'C' | | 2 | 15800 | 0.316 | 0 | 0.000 | 0 | 0.000 | 2 | 0.316 | 0 | 0.000 | 0 |
| (iv) | LSCD 'D' | | 2 | 14400 | 0.288 | 0 | 0.000 | 0 | 0.000 | 1 | 0.144 | 1 | 0.144 | 0 |
| (v) | LSCD 'E' | | 2 | 13000 | 0.260 | 2 | 0.260 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 |
| (vi) | Masonry Check Dam | | 1 | | 2.126 | 0 | 0.111 | 0 | 0.117 | 0 | 0.536 | 0 | 0.631 | 1 |
| **TOTAL** | | | | | **10.080** | | **1.680** | | **2.520** | | **2.520** | | **2.016** | |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | **15%** | **2.520** | | | | | | | | | | |
| | **For Arable Land** | | | | | | | | | | | | | |
| 1 | Arable bund | | 25 | 320 | 0.080 | 5 | 0.016 | 5 | 0.016 | 4 | 0.013 | 3 | 0.010 | 8 |
| 2 | Agro Forestry | | 550 | 73 | 0.402 | 150 | 0.110 | 115 | 0.084 | 65 | 0.047 | 55 | 0.040 | 165 |
| 3 | Horticulture Plantation with fencing & Tanka | | 2 | 29400 | 0.588 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 2 | 0.588 | 0 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 0 | 10000 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 |
| 5 | Vermi Compost | | 0 | 36000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 |
| 6 | Crop Demonstration | | 0 | 2000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 |
| 7 | Homested Kitchen Gerden | | 0 | 1000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 |
| 8 | Medicinal Plants | | 0 | 3000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 |
| | **For Non-arable Land** | | | | | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 |
| 1 | V Ditch for PD | | 0 | 2200.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 |
| 3 | Fencing of PD (by SW) | | 0 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 |
| 4 | Fencing of PD (by DCB) | | 0 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 |

# CHAPTER V

## ANNUAL ACTION PLAN THROUGH CONVERGENCE

| | | | | |
|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. |
| **District: JALORE** | Samtipura | **Geographical Area** | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 1013 | Hac. |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 709 | Hac. |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 207 | Hac. |
| | | **2. Govt. / waste /OTHER LA** | 97 | Hac. |
| | | **TOTAL COST** | 151.95 | Lac. |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| **AI.** | **ADMINISTRATIVE COST** | **10%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **MONITORING** | **1%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **III** | **EVALUATION** | **1%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | **12%** | | **0.000** | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | **4%** | | **0.00** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | **5%** | | **0.00** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | **1%** | | **0.00** | **0.000** | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | **10%** | | **0.00** | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** |
| | **W/S WORK PHASE** | | | | | | | | | | | | | | |
| **VII** | **NRM** | | | | | | | | | | | | | | |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | Earthen Bund | | 80 | 11280 | 9.024 | 0 | 0.000 | 10 | 1.128 | 20 | 2.256 | 30 | 3.384 | 20 | 2.256 |
| (ii) | WHS (Tanka) | | 20 | 82000 | 16.400 | 0 | 0.000 | 10 | 8.200 | 10 | 8.200 | 0 | 0.000 | 0 | 0.000 |
| (iii) | Waste weir | | 10 | 14000 | 1.400 | 0 | 0.000 | 3 | 0.420 | 3 | 0.420 | 2 | 0.280 | 2 | 0.280 |
| (iv) | Gulley Control Structure Nallah Bunding | | 0 | 10600 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (v) | Farm Pond | | 8 | 50000 | 4.000 | 0 | 0.000 | 2 | 1.000 | 2 | 1.000 | 2 | 1.000 | 2 | 1.000 |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | V Ditch for PD | | 0 | 13760 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (iii) | Dug out Pond | | 3 | 50000 | 1.500 | 0 | 0.000 | 1 | 0.500 | 1 | 0.500 | | 0.000 | 1 | 0.500 |
| (iv) | WHS (Tanka) | | 3 | 82000 | 2.460 | 0 | 0.000 | 1 | 0.820 | 1 | 0.820 | | 0.000 | 1 | 0.820 |
| (v) | Nallah Bunding with ww | | 8 | 24600 | 1.968 | 0 | 0.000 | 2 | 0.492 | 2 | 0.492 | 2 | 0.492 | 2 | 0.492 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | | | | | | | | |
| (i) | LSCD 'A' | | 0 | 18700 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (ii) | LSCD 'B' | | 0 | 17200 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iii) | LSCD 'C' | | 0 | 15800 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iv) | LSCD 'D' | | 0 | 14400 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (v) | LSCD 'E' | | 0 | 13000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (vi) | Masonry Check Dam | | 0 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | #REF! |
| **TOTAL** | | | | | **36.752** | | **0.000** | | **12.560** | | **13.688** | | **5.156** | | **#REF!** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | | | | | | | | | | | | | |
| | **For Arable Land** | | | | | | | | | | | | | | |
| 1 | Arable bund | | 0 | 320 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 2 | Agro Forestry | | 0 | 73 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 3 | Horticulture Plantation with fencing & Tanka | | 20 | 29400 | 5.880 | 0 | 0.000 | 5 | 1.470 | 5 | 1.470 | 5 | 1.470 | 5 | 1.470 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 3 | 10000 | 0.300 | 0 | 0.000 | 1 | 0.100 | 1 | 0.100 | 1 | 0.100 | 0 | 0.000 |
| 5 | Vermi Compost | | 0 | 36000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 6 | Crop Demonstration | | 0 | 2000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 7 | Homested Kitchen Gerden | | 0 | 1000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 8 | Medicinal Plants | | 0 | 3000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| | **For Non-arable Land** | | | | | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 1 | V Ditch for PD | | 0 | 2200.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 4 | Fencing of PD (by DCB) | | 0 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| | **TOTAL** | | | | **6.180** | | **0.000** | | **1.570** | | **1.570** | | **1.570** | | **1.470** |
| | | | | | | | | | | | | | | | |
| | **GRAND TOTAL** | | | | **42.932** | | **0.000** | | **14.130** | | **15.258** | | **6.726** | | **#REF!** |

# CHAPTER V

## ANNUAL ACTION PLAN THROUGH CONVERGENCE

| | | | | |
|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. |
| **District: JALORE** | Samtipura | **Geographical Area** | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 963 | Hac. |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 794 | Hac. |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 93 | Hac. |
| | | **2. Govt. / waste /OTHER LA** | 76 | Hac. |
| | | **TOTAL COST** | 144.45 | Lac. |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| **AI.** | **ADMINISTRATIVE COST** | **10%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **MONITORING** | **1%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **III** | **EVALUATION** | **1%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | **12%** | | **0.000** | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | **4%** | | **0.00** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | **5%** | | **0.00** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | **1%** | | **0.00** | **0.000** | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | **10%** | | **0.00** | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** |
| | **W/S WORK PHASE** | | | | | | | | | | | | | | |
| **VII** | **NRM** | | | | | | | | | | | | | | |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | Earthen Bund | | 80 | 11280 | 9.024 | 0 | 0.000 | 10 | 1.128 | 20 | 2.256 | 30 | 3.384 | 20 | 2.256 |
| (ii) | WHS (Tanka) | | 20 | 82000 | 16.400 | 0 | 0.000 | 10 | 8.200 | 10 | 8.200 | 0 | 0.000 | 0 | 0.000 |
| (iii) | Waste weir | | 10 | 14000 | 1.400 | 0 | 0.000 | 3 | 0.420 | 3 | 0.420 | 2 | 0.280 | 2 | 0.280 |
| (iv) | Gulley Control Structure Nallah Bunding | | 0 | 10600 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (v) | Farm Pond | | 8 | 50000 | 4.000 | 0 | 0.000 | 2 | 1.000 | 2 | 1.000 | 2 | 1.000 | 2 | 1.000 |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | V Ditch for PD | | 0 | 13760 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (iii) | Dug out Pond | | 3 | 50000 | 1.500 | 0 | 0.000 | 1 | 0.500 | 1 | 0.500 | | 0.000 | 1 | 0.500 |
| (iv) | WHS (Tanka) | | 3 | 82000 | 2.460 | 0 | 0.000 | 1 | 0.820 | 1 | 0.820 | | 0.000 | 1 | 0.820 |
| (v) | Nallah Bunding with ww | | 8 | 24600 | 1.968 | 0 | 0.000 | 2 | 0.492 | 2 | 0.492 | 2 | 0.492 | 2 | 0.492 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | | | | | | | | |
| (i) | LSCD 'A' | | 0 | 18700 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (ii) | LSCD 'B' | | 0 | 17200 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iii) | LSCD 'C' | | 0 | 15800 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iv) | LSCD 'D' | | 0 | 14400 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (v) | LSCD 'E' | | 0 | 13000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (vi) | Masonry Check Dam | | 0 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | #REF! |
| **TOTAL** | | | | | **36.752** | | **0.000** | | **12.560** | | **13.688** | | **5.156** | | **#REF!** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | | | | | | | | | | | | | |
| | **For Arable Land** | | | | | | | | | | | | | | |
| 1 | Arable bund | | 0 | 320 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 2 | Agro Forestry | | 0 | 73 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 3 | Horticulture Plantation with fencing & Tanka | | 20 | 29400 | 5.880 | 0 | 0.000 | 5 | 1.470 | 5 | 1.470 | 5 | 1.470 | 5 | 1.470 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 3 | 10000 | 0.300 | 0 | 0.000 | 1 | 0.100 | 1 | 0.100 | 1 | 0.100 | 0 | 0.000 |
| 5 | Vermi Compost | | 0 | 36000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 6 | Crop Demonstration | | 0 | 2000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 7 | Homested Kitchen Gerden | | 0 | 1000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 8 | Medicinal Plants | | 0 | 3000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| | **For Non-arable Land** | | | | | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 1 | V Ditch for PD | | 0 | 2200.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| | | | | | | | | | | | | | | | |
| | **TOTAL** | | | | **6.180** | | **0.000** | | **1.570** | | **1.570** | | **1.570** | | **1.470** |
| | | | | | | | | | | | | | | | |
| | **GRAND TOTAL** | | | | **42.932** | | **0.000** | | **14.130** | | **15.258** | | **6.726** | | **#REF!** |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |

# CHAPTER V

## ANNUAL ACTION PLAN THROUGH CONVERGENCE

| | | | | | |
|---|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. |
| **District: JALORE** | Leta | **Geographical Area** | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 627 | Hac. |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 473 | Hac. |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 103 | Hac. |
| | | **2. Govt. / waste /OTHER LA** | 51 | Hac. |
| | | **TOTAL COST** | 94.05 | Lac. |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| **AI.** | **ADMINISTRATIVE COST** | **10%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **MONITORING** | **1%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **III** | **EVALUATION** | **1%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | **12%** | | **0.000** | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | **4%** | | **0.00** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | **5%** | | **0.00** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | **1%** | | **0.00** | **0.000** | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | **10%** | | **0.00** | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** |
| | **W/S WORK PHASE** | | | | | | | | | | | | | | |
| **VII** | **NRM** | | | | | | | | | | | | | | |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | Earthen Bund | | 80 | 11280 | 9.024 | 0 | 0.000 | 10 | 1.128 | 20 | 2.256 | 30 | 3.384 | 20 | 2.256 |
| (ii) | WHS (Tanka) | | 20 | 82000 | 16.400 | 0 | 0.000 | 10 | 8.200 | 10 | 8.200 | 0 | 0.000 | 0 | 0.000 |
| (iii) | Waste weir | | 10 | 14000 | 1.400 | 0 | 0.000 | 3 | 0.420 | 3 | 0.420 | 2 | 0.280 | 2 | 0.280 |
| (iv) | Gulley Control Structure Nallah Bunding | | 0 | 10600 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (v) | Farm Pond | | 8 | 50000 | 4.000 | 0 | 0.000 | 2 | 1.000 | 2 | 1.000 | 2 | 1.000 | 2 | 1.000 |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | V Ditch for PD | | 0 | 13760 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (iii) | Dug out Pond | | 3 | 50000 | 1.500 | 0 | 0.000 | 1 | 0.500 | 1 | 0.500 | | 0.000 | 1 | 0.500 |
| (iv) | WHS (Tanka) | | 3 | 82000 | 2.460 | 0 | 0.000 | 1 | 0.820 | 1 | 0.820 | | 0.000 | 1 | 0.820 |
| (v) | Nallah Bunding with ww | | 8 | 24600 | 1.968 | 0 | 0.000 | 2 | 0.492 | 2 | 0.492 | 2 | 0.492 | 2 | 0.492 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | | | | | | | | |
| (i) | LSCD 'A' | | 0 | 18700 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (ii) | LSCD 'B' | | 0 | 17200 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iii) | LSCD 'C' | | 0 | 15800 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iv) | LSCD 'D' | | 0 | 14400 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (v) | LSCD 'E' | | 0 | 13000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (vi) | Masonry Check Dam | | 0 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | #REF! |
| **TOTAL** | | | | | **36.752** | | **0.000** | | **12.560** | | **13.688** | | **5.156** | | **#REF!** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | | | | | | | | | | | | | |
| | **For Arable Land** | | | | | | | | | | | | | | |
| 1 | Arable bund | | 0 | 320 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 2 | Agro Forestry | | 0 | 73 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 3 | Horticulture Plantation with fencing & Tanka | | 20 | 29400 | 5.880 | 0 | 0.000 | 5 | 1.470 | 5 | 1.470 | 5 | 1.470 | 5 | 1.470 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 3 | 10000 | 0.300 | 0 | 0.000 | 1 | 0.100 | 1 | 0.100 | 1 | 0.100 | 0 | 0.000 |
| 5 | Vermi Compost | | 0 | 36000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 6 | Crop Demonstration | | 0 | 2000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 7 | Homested Kitchen Gerden | | 0 | 1000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 8 | Medicinal Plants | | 0 | 3000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| | **For Non-arable Land** | | | | | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 1 | V Ditch for PD | | 0 | 2200.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| | | | | | | | | | | | | | | | |
| | **TOTAL** | | | | **6.180** | | **0.000** | | **1.570** | | **1.570** | | **1.570** | | **1.470** |
| | | | | | | | | | | | | | | | |
| | **GRAND TOTAL** | | | | **42.932** | | **0.000** | | **14.130** | | **15.258** | | **6.726** | | **#REF!** |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |

# CHAPTER V

## ANNUAL ACTION PLAN THROUGH CONVERGENCE

| | | | | |
|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. |
| **District: JALORE** | Godan | **Geographical Area** | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 489 | Hac. |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 378 | Hac. |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 30 | Hac. |
| | | **2. Govt. / waste /OTHER LA** | 81 | Hac. |
| | | **TOTAL COST** | 73.35 | Lac. |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| **AI.** | **ADMINISTRATIVE COST** | **10%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **MONITORING** | **1%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **III** | **EVALUATION** | **1%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | **12%** | | **0.000** | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | **4%** | | **0.00** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | **5%** | | **0.00** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | **1%** | | **0.00** | **0.000** | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | **10%** | | **0.00** | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** |
| | **W/S WORK PHASE** | | | | | | | | | | | | | | |
| **VII** | **NRM** | | | | | | | | | | | | | | |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | Earthen Bund | | 80 | 11280 | 9.024 | 0 | 0.000 | 10 | 1.128 | 20 | 2.256 | 30 | 3.384 | 20 | 2.256 |
| (ii) | WHS (Tanka) | | 20 | 82000 | 16.400 | 0 | 0.000 | 10 | 8.200 | 10 | 8.200 | 0 | 0.000 | 0 | 0.000 |
| (iii) | Waste weir | | 10 | 14000 | 1.400 | 0 | 0.000 | 3 | 0.420 | 3 | 0.420 | 2 | 0.280 | 2 | 0.280 |
| (iv) | Gulley Control Structure Nallah Bunding | | 0 | 10600 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (v) | Farm Pond | | 8 | 50000 | 4.000 | 0 | 0.000 | 2 | 1.000 | 2 | 1.000 | 2 | 1.000 | 2 | 1.000 |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | V Ditch for PD | | 0 | 13760 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (iii) | Dug out Pond | | 3 | 50000 | 1.500 | 0 | 0.000 | 1 | 0.500 | 1 | 0.500 | | 0.000 | 1 | 0.500 |
| (iv) | WHS (Tanka) | | 3 | 82000 | 2.460 | 0 | 0.000 | 1 | 0.820 | 1 | 0.820 | | 0.000 | 1 | 0.820 |
| (v) | Nallah Bunding with ww | | 8 | 24600 | 1.968 | 0 | 0.000 | 2 | 0.492 | 2 | 0.492 | 2 | 0.492 | 2 | 0.492 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | | | | | | | | |
| (i) | LSCD 'A' | | 0 | 18700 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (ii) | LSCD 'B' | | 0 | 17200 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iii) | LSCD 'C' | | 0 | 15800 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iv) | LSCD 'D' | | 0 | 14400 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (v) | LSCD 'E' | | 0 | 13000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (vi) | Masonry Check Dam | | 0 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | #REF! |
| **TOTAL** | | | | | **36.752** | | **0.000** | | **12.560** | | **13.688** | | **5.156** | | **#REF!** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | | | | | | | | | | | | | |
| | **For Arable Land** | | | | | | | | | | | | | | |
| 1 | Arable bund | | 0 | 320 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 2 | Agro Forestry | | 0 | 73 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 3 | Horticulture Plantation with fencing & Tanka | | 20 | 29400 | 5.880 | 0 | 0.000 | 5 | 1.470 | 5 | 1.470 | 5 | 1.470 | 5 | 1.470 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 3 | 10000 | 0.300 | 0 | 0.000 | 1 | 0.100 | 1 | 0.100 | 1 | 0.100 | 0 | 0.000 |
| 5 | Vermi Compost | | 0 | 36000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 6 | Crop Demonstration | | 0 | 2000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 7 | Homested Kitchen Gerden | | 0 | 1000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 8 | Medicinal Plants | | 0 | 3000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| | **For Non-arable Land** | | | | | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 1 | V Ditch for PD | | 0 | 2200.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| | | | | | | | | | | | | | | | |
| | **TOTAL** | | | | **6.180** | | **0.000** | | **1.570** | | **1.570** | | **1.570** | | **1.470** |
| | | | | | | | | | | | | | | | |
| | **GRAND TOTAL** | | | | **42.932** | | **0.000** | | **14.130** | | **15.258** | | **6.726** | | **#REF!** |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |

# CHAPTER V

## ANNUAL ACTION PLAN THROUGH CONVERGENCE

| | | | | |
|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. |
| **District: JALORE** | Badanwadi | **Geographical Area** | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 741 | Hac. |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 626 | Hac. |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 30 | Hac. |
| | | **2. Govt. / waste /OTHER LA** | 85 | Hac. |
| | | **TOTAL COST** | 111.15 | Lac. |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| **AI.** | **ADMINISTRATIVE COST** | **10%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **MONITORING** | **1%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **III** | **EVALUATION** | **1%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | **12%** | | **0.000** | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | **4%** | | **0.00** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | **5%** | | **0.00** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | **1%** | | **0.00** | **0.000** | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | **10%** | | **0.00** | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** |
| | **W/S WORK PHASE** | | | | | | | | | | | | | | |
| **VII** | **NRM** | | | | | | | | | | | | | | |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | Earthen Bund | | 80 | 11280 | 9.024 | 0 | 0.000 | 10 | 1.128 | 20 | 2.256 | 30 | 3.384 | 20 | 2.256 |
| (ii) | WHS (Tanka) | | 20 | 82000 | 16.400 | 0 | 0.000 | 10 | 8.200 | 10 | 8.200 | 0 | 0.000 | 0 | 0.000 |
| (iii) | Waste weir | | 10 | 14000 | 1.400 | 0 | 0.000 | 3 | 0.420 | 3 | 0.420 | 2 | 0.280 | 2 | 0.280 |
| (iv) | Gulley Control Structure Nallah Bunding | | 0 | 10600 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (v) | Farm Pond | | 8 | 50000 | 4.000 | 0 | 0.000 | 2 | 1.000 | 2 | 1.000 | 2 | 1.000 | 2 | 1.000 |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | V Ditch for PD | | 0 | 13760 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (iii) | Dug out Pond | | 3 | 50000 | 1.500 | 0 | 0.000 | 1 | 0.500 | 1 | 0.500 | | 0.000 | 1 | 0.500 |
| (iv) | WHS (Tanka) | | 3 | 82000 | 2.460 | 0 | 0.000 | 1 | 0.820 | 1 | 0.820 | | 0.000 | 1 | 0.820 |
| (v) | Nallah Bunding with ww | | 8 | 24600 | 1.968 | 0 | 0.000 | 2 | 0.492 | 2 | 0.492 | 2 | 0.492 | 2 | 0.492 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | | | | | | | | |
| (i) | LSCD 'A' | | 0 | 18700 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (ii) | LSCD 'B' | | 0 | 17200 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iii) | LSCD 'C' | | 0 | 15800 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iv) | LSCD 'D' | | 0 | 14400 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (v) | LSCD 'E' | | 0 | 13000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (vi) | Masonry Check Dam | | 0 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | #REF! |
| **TOTAL** | | | | | **36.752** | | **0.000** | | **12.560** | | **13.688** | | **5.156** | | **#REF!** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | | | | | | | | | | | | | |
| | **For Arable Land** | | | | | | | | | | | | | | |
| 1 | Arable bund | | 0 | 320 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 2 | Agro Forestry | | 0 | 73 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 3 | Horticulture Plantation with fencing & Tanka | | 20 | 29400 | 5.880 | 0 | 0.000 | 5 | 1.470 | 5 | 1.470 | 5 | 1.470 | 5 | 1.470 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 3 | 10000 | 0.300 | 0 | 0.000 | 1 | 0.100 | 1 | 0.100 | 1 | 0.100 | 0 | 0.000 |
| 5 | Vermi Compost | | 0 | 36000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 6 | Crop Demonstration | | 0 | 2000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 7 | Homested Kitchen Gerden | | 0 | 1000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 8 | Medicinal Plants | | 0 | 3000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| | **For Non-arable Land** | | | | | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 1 | V Ditch for PD | | 0 | 2200.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| | | | | | | | | | | | | | | | |
| | **TOTAL** | | | | **6.180** | | **0.000** | | **1.570** | | **1.570** | | **1.570** | | **1.470** |
| | | | | | | | | | | | | | | | |
| | **GRAND TOTAL** | | | | **42.932** | | **0.000** | | **14.130** | | **15.258** | | **6.726** | | **#REF!** |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |

# CHAPTER V

## ANNUAL ACTION PLAN THROUGH CONVERGENCE

| | | | | |
|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. |
| **District: JALORE** | Oun | **Geographical Area** | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 253 | Hac. |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 222 | Hac. |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | 16 | Hac. |
| | | **2. Govt. / waste /OTHER LA** | 15 | Hac. |
| | | **TOTAL COST** | 37.95 | Lac. |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| **AI.** | **ADMINISTRATIVE COST** | **10%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **MONITORING** | **1%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **III** | **EVALUATION** | **1%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | **12%** | | **0.000** | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | **4%** | | **0.00** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | **5%** | | **0.00** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | **1%** | | **0.00** | **0.000** | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | **10%** | | **0.00** | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** |
| | **W/S WORK PHASE** | | | | | | | | | | | | | | |
| **VII** | **NRM** | | | | | | | | | | | | | | |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | Earthen Bund | | 60 | 11280 | 6.768 | 0 | 0.000 | 10 | 1.128 | 10 | 1.128 | 30 | 3.384 | 10 | 1.128 |
| (ii) | WHS (Tanka) | | 15 | 82000 | 12.300 | 0 | 0.000 | 10 | 8.200 | 5 | 4.100 | 0 | 0.000 | 0 | 0.000 |
| (iii) | Waste weir | | 10 | 14000 | 1.400 | 0 | 0.000 | 3 | 0.420 | 3 | 0.420 | 2 | 0.280 | 2 | 0.280 |
| (iv) | Gulley Control Structure Nallah Bunding | | 0 | 10600 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (v) | Farm Pond | | 8 | 50000 | 4.000 | 0 | 0.000 | 2 | 1.000 | 2 | 1.000 | 2 | 1.000 | 2 | 1.000 |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | V Ditch for PD | | 0 | 13760 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (iii) | Dug out Pond | | 3 | 50000 | 1.500 | 0 | 0.000 | 1 | 0.500 | 1 | 0.500 | | 0.000 | 1 | 0.500 |
| (iv) | WHS (Tanka) | | 3 | 82000 | 2.460 | 0 | 0.000 | 1 | 0.820 | 1 | 0.820 | | 0.000 | 1 | 0.820 |
| (v) | Nallah Bunding with ww | | 8 | 24600 | 1.968 | 0 | 0.000 | 2 | 0.492 | 2 | 0.492 | 2 | 0.492 | 2 | 0.492 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | | | | | | | | |
| (i) | LSCD 'A' | | 0 | 18700 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (ii) | LSCD 'B' | | 0 | 17200 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iii) | LSCD 'C' | | 0 | 15800 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iv) | LSCD 'D' | | 0 | 14400 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (v) | LSCD 'E' | | 0 | 13000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (vi) | Masonry Check Dam | | 0 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | #REF! |
| **TOTAL** | | | | | **30.396** | | **0.000** | | **12.560** | | **8.460** | | **5.156** | | **#REF!** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | | | | | | | | | | | | | |
| | **For Arable Land** | | | | | | | | | | | | | | |
| 1 | Arable bund | | 0 | 320 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 2 | Agro Forestry | | 0 | 73 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 3 | Horticulture Plantation with fencing & Tanka | | 20 | 29400 | 5.880 | 0 | 0.000 | 5 | 1.470 | 5 | 1.470 | 5 | 1.470 | 5 | 1.470 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 3 | 10000 | 0.300 | 0 | 0.000 | 1 | 0.100 | 1 | 0.100 | 1 | 0.100 | 0 | 0.000 |
| 5 | Vermi Compost | | 0 | 36000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 6 | Crop Demonstration | | 0 | 2000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 7 | Homested Kitchen Gerden | | 0 | 1000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 8 | Medicinal Plants | | 0 | 3000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| | **For Non-arable Land** | | | | | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 1 | V Ditch for PD | | 0 | 2200.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| | | | | | | | | | | | | | | | |
| | **TOTAL** | | | | **6.180** | | **0.000** | | **1.570** | | **1.570** | | **1.570** | | **1.470** |
| | | | | | | | | | | | | | | | |
| | **GRAND TOTAL** | | | | **36.576** | | **0.000** | | **14.130** | | **10.030** | | **6.726** | | **#REF!** |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |

# CHAPTER V

## ANNUAL ACTION PLAN THROUGH CONVERGENCE

| | | | | |
|---|---|---|---|---|
| **STATE RAJASTHAN** | **IWMP-II** | **UNIT COST** | 15000 | Hac. |
| **District: JALORE** | Desu | **Geographical Area** | | |
| **AGROCLIMATIC ZONE:IIB** | II B | **Effective Area** | 112 | Hac. |
| **Name of the BLOCK:** | Jalore | **Total Arable land** | | |
| **Name of WATERSHED** | JALORE II | **1. Unirrigated** | 111 | Hac. |
| **CATEGORY OF WATERSHED** | DESERT AREA | **Total Nonarable land** | | |
| **IRRIGATION PERCENTAGE** | | **1. Pasture** | | Hac. |
| | | **2. Govt. / waste /OTHER LA** | 1 | Hac. |
| | | **TOTAL COST** | 16.8 | Lac. |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| **AI.** | **ADMINISTRATIVE COST** | **10%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **MONITORING** | **1%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **III** | **EVALUATION** | **1%** | | **0.000** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | **12%** | | **0.000** | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** |
| **BI** | **PREPARATORY PHASE ENTRY POINT ACTIVITY** | **4%** | | **0.00** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **II** | **Instituion & CAPACITY BUILDING** | **5%** | | **0.00** | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **III** | **Preparation of DETAILED PROJECT REPORT** | **1%** | | **0.00** | **0.000** | | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 |
| **TOTAL** | | **10%** | | **0.00** | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** | | **0.000** |
| | **W/S WORK PHASE** | | | | | | | | | | | | | | |
| **VII** | **NRM** | | | | | | | | | | | | | | |
| 1 | **ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | Earthen Bund | | 40 | 11280 | 4.512 | 0 | 0.000 | 10 | 1.128 | 20 | 2.256 | 10 | 1.128 | 0 | 0.000 |
| (ii) | WHS (Tanka) | | 10 | 82000 | 8.200 | 0 | 0.000 | 5 | 4.100 | 5 | 4.100 | 0 | 0.000 | 0 | 0.000 |
| (iii) | Waste weir | | 10 | 14000 | 1.400 | 0 | 0.000 | 3 | 0.420 | 3 | 0.420 | 2 | 0.280 | 2 | 0.280 |
| (iv) | Gulley Control Structure Nallah Bunding | | 0 | 10600 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (v) | Farm Pond | | 8 | 50000 | 4.000 | 0 | 0.000 | 2 | 1.000 | 2 | 1.000 | 2 | 1.000 | 2 | 1.000 |
| 2 | **NON ARABLE CONSERVATION WORK** | | | | | | | | | | | | | | |
| (i) | V Ditch for PD | | 0 | 13760 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |
| (ii) | Staggered Contour Trenches for PD | | 0 | 11790 | 0.000 | | | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| (iii) | Dug out Pond | | 3 | 50000 | 1.500 | 0 | 0.000 | 1 | 0.500 | 1 | 0.500 | | 0.000 | 1 | 0.500 |
| (iv) | WHS (Tanka) | | 3 | 82000 | 2.460 | 0 | 0.000 | 1 | 0.820 | 1 | 0.820 | | 0.000 | 1 | 0.820 |
| (v) | Nallah Bunding with ww | | 8 | 24600 | 1.968 | 0 | 0.000 | 2 | 0.492 | 2 | 0.492 | 2 | 0.492 | 2 | 0.492 |
| 3 | **DRAINAGE LINE TREATMENT** | | | | | | | | | | | | | | |
| (i) | LSCD 'A' | | 0 | 18700 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (ii) | LSCD 'B' | | 0 | 17200 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iii) | LSCD 'C' | | 0 | 15800 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (iv) | LSCD 'D' | | 0 | 14400 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (v) | LSCD 'E' | | 0 | 13000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| (vi) | Masonry Check Dam | | 0 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | #REF! |
| **TOTAL** | | | | | **24.040** | | **0.000** | | **8.460** | | **9.588** | | **2.900** | | **#REF!** |
| **VIII** | **PRODUCTION SYSTEM & MICRO ENTERPRISES** | | | | | | | | | | | | | | |
| | **For Arable Land** | | | | | | | | | | | | | | |
| 1 | Arable bund | | 0 | 320 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 2 | Agro Forestry | | 0 | 73 | 0.000 | | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 3 | Horticulture Plantation with fencing & Tanka | | 20 | 29400 | 5.880 | 0 | 0.000 | 5 | 1.470 | 5 | 1.470 | 5 | 1.470 | 5 | 1.470 |
| 4 | Horticulture Plantation without fencing (Orchard) | | 3 | 10000 | 0.300 | 0 | 0.000 | 1 | 0.100 | 1 | 0.100 | 1 | 0.100 | 0 | 0.000 |
| 5 | Vermi Compost | | 0 | 36000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 6 | Crop Demonstration | | 0 | 2000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 7 | Homested Kitchen Gerden | | 0 | 1000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| 8 | Medicinal Plants | | 0 | 3000 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 |
| | **For Non-arable Land** | | | | | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 1 | V Ditch for PD | | 0 | 2200.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 2 | Staggered Contour Trenches for PD | | 0 | 900.000 | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| 3 | Fencing of PD (by SW) | | 0 | | 0.000 | | 0.000 | 0 | 0.000 | | 0.000 | | 0.000 | 0 | 0.000 |
| | | | | | | | | | | | | | | | |
| | **TOTAL** | | | | **6.180** | | **0.000** | | **1.570** | | **1.570** | | **1.570** | | **1.470** |
| | | | | | | | | | | | | | | | |
| | **GRAND TOTAL** | | | | **30.220** | | **0.000** | | **10.030** | | **11.158** | | **4.470** | | **#REF!** |

| S. N. | ACTIVITY | Unit | Qantity | Unit Cost | Total cost | FIRST YEAR | | SECOND YEAR | | THIRD YEAR | | FOURTH YEAR | | FIFTH YEAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN | PHY | FIN |