

DETAILED PROJECT REPORT OF JODHPUR-XXV (IWMP)

(UNDER INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

BLOCK: OSIAN DISTRICT : JODHPUR

AGRO CLIMATIC ZONE- 1A

TOTAL GEOGRAPHICAL AREA – 6685Hac.

TOTAL EFFECTIVE AREA- 5000 Hac.

TOTAL COST- 851.85 Lacs.

COST FROM PROJECT FUND- 750.00Lacs

COST FROM CONVERGENCE FUND- 101.85Lacs



SUBMITTED BY
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PANCHAYAT SAMITI -OSIAN
JODHPUR, (RAJASTHAN)

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INTRODUCTION

CHAPTER - I INTRODUCTION

Location.

Cherai (Jodhpur-25): Project is located in OSIAN Block of JODHPUR district. The project area is between the latitudes 26 37'19 TO 26 43'59N & longitudes 72 38'19 TO 72 45'11' E . It is at a distance 24 km from its Block head quarters and 65 kms from the district head quarters. there are 5 habitations in the Project area and other details are given below.

General features of watershed

| S. No | Name of Project (as per GOI) | Cherai (Jodhpur - 25) |
|-------|---------------------------------------|--|
| (a) | Name of atchment | Cherai, Mahadev Nagar, Arjun Dev Nagar, Daukion ka Bas, Bada Bas |
| (b) | Name of watershed area (Local name) | cherai |
| (c) | Project Area | 6685.19 Hact. |
| (d) | Net Treatable Area | 5000 Hact. |
| (e) | Cost of Project | 750000 |
| (f) | Cost / Hectare | 15000 |
| (g) | Year of Sanction | 2010-11 |
| (h) | Watershed Code | Desert |
| (i) | No. of Gram Panchayat in Project Area | 1 |
| (j) | No. of villages in Project Area | 5 |
| (k) | Type of Project | Desert |
| (l) | Elevation (metres) | – |
| (m) | Major streams | – |
| (n) | Slope range (%) | 1 to 4 % |

| Macro/ | Name of Gram Panchyat | Name of Villages | Census code of villages | Area (Hact.) |
|--------|-----------------------|------------------|-------------------------|--------------|
| | cherai | cherai | | 1151 |
| | | mahadev nagar | | 1068 |
| | | arjundev nagar | | 1456 |
| | | bada bas | | 376 |
| | | daukion ka bas | | 949 |

The watershed falls in Agroclimatic Zone **IA** . The Soil texture is **Sandy to lomy sandy soil**. The average rainfall is **266** cm. The temperatures in the area are in the range between 43.4 centigrade during summer and 26.3 centigrade during winter. The major Crops in the **area are Bajara, Wheat, Moong, Moth, mustared ground nut, Gowar, Jeera, Lahsun, Oil sheed, Custor**. 60% land is under Cultivation, 32% land fallow, 3% land is wasteland, 5% land is irrigated through Deep tube well of 110 No. of Household are small and marginal farmers (16.36% household). Average land holding in the area is 266.99 hact. 45% area is single cropped area and 15 % is double cropped . The main sources of irrigation is Deep tube well. The average annual rainfall (5 years) in the area is 266 mm. The Major festivals in the village are Holy, Deepawali, Id & Rakshabandhan. At present this village is having 06 population with Communities like Jat, Rajpoot, Meghwal.

Climatic and Hydrological information

| 1 Average Annual Rainfall (mm) | | | | |
|---|--|------------------------------|-------------------|----------------|
| S.No. | Year | Average Annual Rainfall (mm) | | |
| 1 | 2001 | 324 | | |
| 2 | 2002 | 94 | | |
| 3 | 2003 | 484.5 | | |
| 4 | 2004 | 192 | | |
| 5 | 2005 | 260 | | |
| 6 | 2006 | 209.5 | | |
| 7 | 2007 | 200 | | |
| 8 | 2008 | 270 | | |
| 9 | 2009 | 138 | | |
| 10 | 2010 | 435 | | |
| 2 Average Monthly Rainfall (mm) | | | | |
| | Month | Rainfall (mm) | | |
| i | June | 35.42 | | |
| ii | July | 101.22 | | |
| iii | August | 92.22 | | |
| iv | Septamber | 29.39 | | |
| 3 Maximum rainfall intensity (mm) | | | | |
| | Duration | Rainfall (mm) | | |
| i | 15 minute duration | 63 | | |
| ii | 30 minute duration | 52 | | |
| iii | 60 minute duration | 48 | | |
| 4 Temperature (Degree C) | | | | |
| | Season | Max. | Min. | |
| i | Summer Season | 43.4 | 26.4 | |
| ii | Winter Season | 26.3 | 9.6 | |
| iii | Rainy Season | 35.5 | 15.5 | |
| 5 Potential Evaporation Transpiration (PET) (mm/day) | | | | |
| | Season | PET | | |
| i | Summer Season | 15 | | |
| ii | Winter Season | 3.8 | | |
| iii | Rainy Season | 8.8 | | |
| | | Total PET | 27.6 | |
| 6 | | | | |
| | Time of retun of maximum flood | 5 year | 10 years | In- Year |
| | Periodicity of Drought in village area | 3 time in 5 year | 7 time in 10 year | Alternate year |

Other Development Schemes in the Project area

| S.No. | Scheme | Name of the deptment | Key interventions under the Scheme | Targeted Beneficiaries | Provisions under the Scheme |
|-------|---------|----------------------|------------------------------------|------------------------|----------------------------------|
| 1 | IAY | Rural development | Avas | BPL | Construction of Avas |
| 2 | MGNREGA | Rural development | Providing employment | All section | Basic Infrastructure Development |
| 3 | SFC | Rural development | Providing employment | Village Level | Community work |
| 4 | TFC | Rural development | Providing employment | Village Level | Community work |
| 5 | SGSY | Rural development | Lively Hood | BPL | Providing Loan |

Details of infrastructure in the Project areas

| Parameters | | Status | | | |
|-------------|--|---|-----|-----|-----|
| i | No. of villages connected to the main road by an all weather road | mahadev nagar,arjun dev nagar,daukion ka bas,ba | | | |
| ii | No. of villages provided with electriscity | 5 | | | |
| iii | No. of households without access to drinking water | Nil | | | |
| iv | No. of educational institutions : | P | S | HS | VI |
| | Primary(P)/Secondary(S),HigherSecon dary(HS)/vocational institution (VI) | 6 | 2 | 1 | Nil |
| v | No. of villages with access to Primary Health Centre | cherai, | | | |
| vi | No. of villages with access to Veterinary Dispensary | cherai | | | |
| vii | No. of villages with access to Post office | cherai | | | |
| viii | No. of villages with access to Banks | 1 | | | |
| ix | No. of villages with access to Markets/Mandis | Nil | | | |
| x | No. of villages with access to Agro-industries | Nil | | | |
| xi | Total quantity of surplus milk | | | | |
| xii | No. of milk collection centres | U | S | PA | O |
| | (e.g. Union(U)/Society(S)/Private agency(PA)/Others(O) | Nil | Nil | Nil | Nil |

| | | |
|--------------|---|-------------------|
| xiii | No. of villages with access to Anganwadi Centre | 5 |
| xiv | Any other facilities with no. of village (please specify) | - |
| xv | Nearest KVK | Jodhpur (Mandore) |
| xvi | Cooperative society | cherai |
| xvii | NGOs | Nil |
| xviii | Credit institutions | Nil |
| | (i) Bank | Nil |
| | (ii) Cooperative Society | cherai |
| xix | Agro Service Centre's | Osian |

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

DWDU Detail

| 1 | 2 | 3 |
|--------------|----------------------------------|---------------------------------------|
| S.No. | Particulars | Details of DWDU |
| 1 | PM ,DWDU | Ex. En. Watershed Jodhpur |
| 2 | Address with contact No. website | Near RTO office, Jodhpur 0291-2544171 |
| 3 | Telephone | 0291-2544171 |
| 4 | Fax | 0291-2570746 |
| 5 | E-mail | pm.dwdu.jodhpur@gmail.com |

SLNA Detail

| 1 | 2 | 3 |
|--------------|-------------------------|---|
| S.No. | Particulars | Details of SLNA |
| 1 | Member Secretary | Post-CEO |
| 2 | Designation and Address | Director Watershed development and soil Coservation |
| 3 | Telephone | 0141-2227858 |
| 4 | Fax | 0141-2227189 |
| 5 | E-mail | dir_wdsc@dataone.in |

PIA Particulars

| 1 | 2 | 3 |
|--------------|--------------------|---------------------------|
| S.No. | Particulars | Details of P.I.A. |
| 1 | Name of PIA | Jagdish Choudhary (A.En.) |
| 2 | Designation | A. En. |

| | | |
|---|----------------------------------|--|
| 3 | Address with Contact No. website | |
| 4 | Telephone | 9414875132 |
| 5 | Fax | |
| 6 | E-mail | iwmp.osian@gmail.com |

WDT Particulars

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------|--------------------|-----|-----|----------------------|------------------------------|--|-----------------|
| S.No. | Name of WDT member | M/F | Age | Quqlifi cation | Experience in watershed(Yrs) | Descriptio n of professio nal training | Role/Fun ction |
| 1 | praveen khoja | M | 22 | dip.Civil | 1 | Engineering work | Engg. Work |
| 2 | virendra singh | M | 24 | Diploma in veterinar | — | Veterinary work | Veter. Work |
| 3 | hemleta choudhary | F | 28 | B.A.B.E d. | 1 | Social Scientist | Social work |
| 4 | chandram gurjar | M | 26 | M sc (Ag) | 1 | Agriculture Scientist | Agricultue work |

Scheme :- IWMP

Panchayat Samiti Osian

Watershed :- cherai(Jodhpur - 25)

District : Jodhpur

Details of Watershed Committees (WC) cherai

| S. No. | Name of WC's | Date of Gram Sabha for WCD | Date of Registrati on asvaSocit y(dd/mm/y yy) | Designation | Name | M/F | Name of UG/SHG | Sc/ST/OB C/General | Landless/M F/SF/BF | Educatio nal qualificat ion | Khasra No. |
|--------|--------------------|----------------------------|---|-------------|-----------------------------|-----|----------------|--------------------|--------------------|-----------------------------|------------|
| 1 | cherai Jodhpur- 25 | 22/02/2011 | N.A. | President | Ramu Ram s/o Bhikha Ram | M | UG | OBC | MF | VIII | |
| 2 | | | | Secretary | Padma Ram/Pabu Ram | M | UG | OBC | SF | XII | |
| 3 | | | | Member | Mangi Lal / Ratna Ram | M | UG | Sc | MF | VIII | |
| 4 | | | | Member | Bhanwar Lal / Hamira Ram | M | UG | St | MF | V | |
| 5 | | | | Member | Imrat Lal / sukh Dev | M | UG | GEN | SF | Saksar | |
| 6 | | | | Member | Barju Devi w/o Pancha Ram | F | SSG | OBC | MF | XI | |
| 7 | | | | Member | Puspa w/o Bhupendra | F | | Sc | Land Less | B.A. | |
| 8 | | | | Member | Surja Ram / Sona Ram | M | | OBC | Land Less | Saksar | |
| 9 | | | | Member | Mangi Devi w/o Babu Lal | F | | OBC | Land Less | Saksar | |
| 10 | | | | Member | Kishor Singh / Amar singh | M | UG | GEN | MF | VIII | |
| 11 | | | | Member | Thakar Ram / Chata Ram | M | UG | Sc | MF | V | |
| 12 | | | | Member | Inder Devi w/o Girdhari Ram | F | | OBC | SF | Saksar | |
| 13 | | | | Member | Mohan Ram / Rama Ram | M | UG | OBC | MF | V | |
| 14 | | | | Member | Naga Ram / Hira Ram | M | UG | OBC | MF | Saksar | |
| 15 | | | | Member | Natthu Devi w/o Budha Ram | F | SSG | OBC | MF | Illitrate | |
| 16 | | | | Member | Ram Lal / Moola Ram | M | UG | OBC | MF | VIII | |

| | | | | | | | | | | | |
|----|--|--|--|--------|--------------------------------|---|-----|-----|-----------|------------|--|
| 17 | | | | Member | Hava Devi w/o Kumbha Ram | F | SSG | OBC | MF | Illiterate | |
| 18 | | | | Member | Bhanwarsingh / Swaroop | M | | GEN | SF | Saksar | |
| 19 | | | | Member | Birdi Devi w/o Pema Ram | F | | OBC | MF | Illiterate | |
| 20 | | | | Member | Pabhu Ram / Gokal Ram | M | UG | St | MF | XII | |
| 21 | | | | Member | Papu Ram / Amana Ram | M | UG | OBC | MF | V | |
| 22 | | | | Member | Shanti w/ Moola Ram | F | | Sc | MF | Illiterate | |
| 23 | | | | Member | Narayan Puri / Tulach Puri | M | UG | OBC | Land Less | Illiterate | |
| 24 | | | | Member | Khetu / Ana Ram | M | UG | OBC | MF | Illiterate | |
| 25 | | | | Member | Ramu Ram / Naval Ram | M | | OBC | MF | XII | |
| 26 | | | | Member | Puspa Kanwar w/o Girdharisingh | F | | GEN | MF | III | |
| 27 | | | | Member | Poona Ram / Deepa Ram | M | UG | OBC | MF | Illiterate | |
| 28 | | | | Member | Tulcha Ram / Uda Ram | M | UG | OBC | MF | Saksar | |
| 29 | | | | Member | Mohansingh / Hamir singh | M | UG | GEN | MF | VIII | |
| 30 | | | | Member | Umed singh / Simarth singh | M | UG | GEN | MF | V | |
| 31 | | | | Member | Guddi Devi w/o Pokar Ram | F | | Sc | MF | Saksar | |
| 32 | | | | J.En. | Shri Jagdish Choudhary | M | | OBC | | M.Tech. | |

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 150 hact. Land is arable wasteland and 1600 hact. is fallow can be brought under cultivation. 88.99 hact. is only irrigated and with efforts this can be increased to 500 .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 improvedpackage 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 housees,Agro forestry,fodder crops) and diversification in Livelihoods (Agriculture, Animal husbandry, self employment) 38300 Quantal fodder scarcity can be met out through Pasture development. Improved animal Husbandry practices can increase the productivity of livestock. 45 no. of persons migrate due to Lack of 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.

CHEPTER-II

Sosio economic

FEATURE,

PROBLEMS AND

SCOPE

CHEPTER-II Sosio economic Features, Problems and Scope

Tab 2.1 Population & Household Details :

| Total Population | | | | |
|-------------------------|---------------|--------------|-------------|------------|
| Male | Female | Total | SC | ST |
| 4854 | 4308 | 9162 | 1375 | 240 |

| Household Details | | | | | | |
|--------------------------|------------------|---------------------|------------------------|------------------------|---------------------|---------------------|
| BPL household | Land less | Small Farmer | Marginal Farmer | Total household | SC household | ST household |
| 268 | 60 | 574 | 628 | 1462 | 275 | 48 |

Table 2.2 Development indicators

| S.No. | Development Indicators | State | Project Area |
|--------------|-------------------------------|--------------|---------------------|
| 1 | Per capita income (Rs.) | 17260 | 8850 |
| 2 | Poverty Ratio | 0.22 | 0.33 |
| 3 | Literacy (%) | 60.40% | 45% |
| 4 | Sex Ratio | 921 | 887 |
| 5 | Infant mortality Ratio | | 4/1000 |
| 6 | Maternal mortality Ratio | | 12/1000 |

Table indicates poor socio economic conditions

Table 2.3 Land Use

| Land Use | Total area in Hact. | | | | |
|------------------------------|----------------------------|------------------|-------------------|------------------|--------------|
| | Private | Panchayat | Government | Community | Total |
| Agriculture Land | 4570 | – | – | – | 4570 |
| Temporary follow | 800 | – | – | – | 800 |
| permanent follow | 230 | – | – | – | 230 |
| Cultivated Rainfed | 4070 | – | – | – | 4070 |
| Cultivated Irrigated | 500 | – | – | – | 500 |
| Net Sown area | 4570 | – | – | – | 4570 |
| Net area sown more than once | 500 | – | – | – | 500 |
| Forest Land | – | – | – | – | 0 |
| Waste Land | – | – | – | – | |
| Pastures Land | – | – | 200 | – | 200 |
| Others | – | – | 100 | – | 100 |
| Total | | – | – | – | 5000 |

The project area has ...800.. Hact. Of cultivable wasteland .230.. Hact. Of fallow land (Total ...1030 Hact.) can be brought under cultivation if some irrigation source can be provided through Construction of WHS like Khadin, Tanka, Farm pond etc. and also through demnstration of rainfed varieties of crops. Construction of WHS can also increase in area under irrigation which is only1030. Hact. (...20.6.... %). and Pasture development will be taken up on these land.

Pasture development the land use table shows that there is 200.. Hectare pasture land (4. %) This emphasizes the need for taking up pastureland 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 | Reinfed | | | | Irrigated | | | | Total | |
| | | | Varieties | Area (Hact) | Production (Tone) | Productivity(qt./ha.) | Varieties | Area (Hact) | Production (Tone) | Productivity(qt./ha.) | Area (Hact) | Production (Tone) |
| 1 | Kharif | Bajara | WCC75 RSB2 RJ 171 | 1471 | 882.6 | 6 | | 0 | 0 | 0 | 1471 | 882.6 |
| | | Moong | K851 RMG 62 SML 668 G-8 | 30 | 6 | 2 | | 0 | 0 | 0 | 30 | 6 |
| | | Moth | RMO 40 RMO435 | 664 | 199.2 | 3 | | 0 | 0 | 0 | 664 | 199.2 |
| | | Till | RT 127 RT 125 RT 46 | 4 | 0.8 | 2 | | 0 | 0 | 0 | 4 | 0.8 |
| | | Gowar | RGC 936 RGC 986 RGC1003 HG 563 M 83 | 258 | 77.4 | 3 | | 3 | 0.9 | 3 | 261 | 78.3 |
| | | Mongphali | M 13 GG 20 GG 10 M 335 | 67 | 26.8 | 4 | | 177 | 70.8 | 4 | 244 | 97.6 |
| | | Caster | GCH 4 RHC 8 Jayoti Mayco 6 | 0 | 0 | 0 | | 39 | 19.5 | 5 | 39 | 19.5 |
| | | Chilly | NP 46A Mathania Long Jawar 218 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 |
| | | Gajar | Pusa Kesar Nentis Pusa Mandakani (S-5) | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | |
|---|-------|----------|---|-------------|-------------|---|---|------------|-------------|----|-------------|---------------|
| 2 | Rabi | Wheat | LOC 1 RJ 3077 HD 2329 RJ 1282 | 0 | 0 | 0 | LOC 1 RJ 3077 HD 2329 RJ 1282 | 0 | 0 | 18 | 5.6 | 10.08 |
| | | Mustered | Bio 902 RH 819 RN 505 T.59 (Varuna) | 0 | 0 | 0 | Bio 902 RH 819 RN 505 T.59 (Varuna) | 0 | 0 | 12 | 40.1 | 48.12 |
| | | Jeera | RS-1 RZ- 19 RZ- 209 | 0 | 0 | 0 | RS-1 RZ- 19 RZ- 209 | 31 | | 4 | 31 | 124 |
| | | Lahsoon | Ymuna White G- 1,2 (G- 50) Gujrat | 0 | 0 | 0 | Ymuna White G- 1,2 (G- 50) Gujrat | 0 | 0 | 0 | 0 | 0 |
| 3 | Zaid | Rayda | | 251 | 75.3 | 3 | | 0 | 0 | 0 | 251 | 75.3 |
| | | Taramira | | 5 | 1 | 2 | | 0 | 0 | 0 | 5 | 1 |
| | | | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 |
| | Total | | | 3600 | 1269 | | | 500 | 91.2 | | 4100 | 1360.3 |

| Table 2.4.b Abstract of cropped Area (hact.) | |
|---|------|
| Area under Single crop | 4070 |
| Area under Double crop | 500 |
| Area under Multiple crop | Nil |

****Write for each crops :** The farmers are using **WCC 75. RJ 171** varieties of Bajra, where as varieties like **MH169, RHB 121** can increase the production.

Crop Rotation ** will vary from project to project

| | | |
|--------------|---|-----------|
| Fallow | – | Moth |
| Bajra | – | Jeera |
| Gawar | – | Lahsun |
| Fallow | – | Caster |
| Fallow | – | Groundnut |
| Ground nut | – | Wheet |
| Fallow | – | Moong |
| Cluster Bean | – | Fallow |
| Fallow | – | Tarameera |
| Till | – | Fallow |
| Caster | – | Caster |
| Moth | – | Fallow |

The table 2.41(a) shows that only .500. hact. Is (10. %) is double crouped 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)

| S.No. | Name of the crop | India | Htghest Average in Rajasthan | District | Project Area |
|-------|------------------|-------|------------------------------|----------|--------------|
| 1 | Bajra | 802 | 655 | 750 | 650 |
| 2 | Moong | 317 | 159 | 320 | 305 |
| 3 | Moth | 144 | 122 | 270 | 325 |
| 4 | Weath | 2619 | 2762 | 2150 | 655 |
| 5 | Till | 310 | 149 | 270 | 240 |
| 6 | Gawar | 510 | 525 | 515 | 450 |

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

The reasons for this variation are :-

- 1 The farmers are using vaing varieties WCC 75 of Bajara R1 171 whereas the recommended varities like **MH169, RHB 121** provided 7 qt./hact. Yield(write for all crops)
- 2 Lack of Availibility of good quality seeds of desired crop and variety in adequate quantities and time to the farmers.
- 3 Availability of water for cultivation (15 % is irrigated)

The productivity gap and reasons of indicate potential to increase the productivity through crop demonstration. Crop demonstrations would be carried out on improved crop/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/Vegitables/Floriculture(hact.)

| Activity | Area | Species | Varieties | Recomme nded varieties | Production |
|------------------|------|---------|-----------|------------------------------|------------|
| Horticulture | – | – | – | – | – |
| | – | – | – | – | – |
| | – | – | – | – | – |
| Vegitable | – | – | – | – | – |
| | – | – | – | – | – |
| | – | – | – | – | – |
| Floriculture | – | – | – | – | – |
| | – | – | – | – | – |
| | – | – | – | – | – |
| Medicinal Plants | – | – | – | – | – |

Table 2.6 Land holding Pattern in project area

| S.No | Type of Farmer | Total House Holds | Land holding(hact.) irrigation source wise | | | Land holding (hact.) Social group wise | | | | |
|------|-----------------------|-------------------|--|---------|-------|--|----|-----|------|-----|
| | | | Irrigated(sour ce) | Rainfed | Total | General | SC | ST | OBC | BPL |
| i | Large farmer | 260 | 175 | 1445 | 1620 | 560 | 40 | - | 900 | 20 |
| ii | Smal farmer | 574 | 180 | 1020 | 1200 | 400 | 60 | 150 | 440 | 50 |
| iii | Marginal farmer | 628 | 90 | 1585 | 1675 | 570 | 80 | 200 | 780 | 45 |
| iv | Landless person | 60 | 0 | 0 | 0 | 8 | 15 | 17 | 12 | 8 |
| v | No. of BPL house hold | 268 | 45 | 260 | 305 | 95 | 75 | 35 | 85 | 15 |
| vi | Total | 1390 | 490 | 4310 | 4800 | 1633 | 95 | 402 | 2217 | 138 |

...2875 hact. Land holding belong to small and marginal farmers who own .62.91.% of total cultivated area 4570. Hact. Horticulture/vegetables could be more economical to small & 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, Issabgol, 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/ Contry. 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 producton / average yield.

| S.No. | Description of animal | Population in No. | Yield (Milk/Mutton/Wool) | Equ. Cow unit | Dry matter requirement per year (7 kg/animal) | Total requirement in M.T. |
|-------|-----------------------|-------------------|--------------------------|---------------|---|---------------------------|
| 1 | Cows | | | lit/day | | |
| | Indigenous | 2045 | 2180 | 4 | 5598187.5 | 5598.1875 |
| | Hybrid | | | — | | 0 |
| 2 | Buffaloes | 315 | 1890 | 6 | 1149750 | 1149.75 |
| 3 | Goat | 3100 | 3100 | 1 | 2828750 | 2828.75 |
| 4 | Sheep | 1100 | 550 | 0.5 | 2750 | 2.75 |
| 5 | Camel | 15 | | — | 136875 | 136.875 |
| 6 | Poultry | 107 | | NA | 11716.5 | 11.7165 |
| 7 | Piggery | — | | NA | | 0 |
| | TOTAL | 6682 | | | & | 9728.029 |

9728.029. Tone per year

In spite of 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 - Bardigo Castration
- Artificial insemination - HF Tharparkar
- Distribution of superior Breeding bulls for use in cattle and Buffalo
- Breeding distribution crossbred rams (Chokala,Marwari)

| |
|------------------------------|
| Cattle-Tharparkar,Gir,Ratthi |
| Baffalo-Murrah, |

Besides breed improvement other animal husbandry practices like batter 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 (hact.)

| S.No. | Item | Unit | Area/Quantity |
|-------|---------------------------------------|-----------|---------------|
| 1 | Existing Cultivable area under Fodder | Hact. | 1500 |
| 2 | Production of Green fodder | Tone/year | 2550 |
| 3 | Production of Dry fodder | Tone/year | 3950 |
| 4 | Area under Pastures | Hact. | Nil |
| 5 | Production of fodder | Tone/year | Nil |
| 6 | Existing area under Fuel wood | Hact. | Nil |
| 7 | Supplementary feed | Kgs / day | 315 |
| 8 | Silage Pits | No. | nil |
| 9 | Availability of fodder | Tones | 6815 |
| 10 | Deficiency / excess of fodder | Tones | 2913.029 |

The table above shows there is fodder deficiency (Requirement is 9728.029 tone and availability 6815 tones)

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 | 105 |
| 2 | Sprayers-manual / power | 180 |
| 3 | Cultivators / Harrows | 93 |
| 4 | Seed drill | 15 |
| 5 | Any other trolley | 105 |

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

| S.No. | Name of village | Total No. of Job card | Employment Status | Activity taken up so far |
|-------|-----------------|-----------------------|-------------------|--------------------------|
| 1 | Cherai | 525 | 410 | Road&Nadi |
| | Mahadev Nagar | 244 | 204 | Road&Nadi |
| | Arjun Dev Nagar | 296 | 206 | Road&Nadi |
| | Daukiyon ka Bas | 239 | 197 | Road&Nadi |
| | Badabas | 153 | 125 | Road&Nadi |

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) |
|-----------------|--------------------------|-----------------------------------|-------------------------------|--|-----------------------------|---|
| Cherai | 150 | 210-240 | Unemployment | 64 | Building construction | 27.00 |
| Mahadev Nagar | 45 | 210-240 | Unemployment | 64 | Building construction | 8.10 |
| Arjun Dev Nagar | 50 | 210-240 | Unemployment | 64 | Building construction | 9.00 |

| | | | | | | |
|-----------------|-----|---------|--------------|----|-----------------------|-------|
| Daukiyon ka Bas | 120 | 210-240 | Unemployment | 64 | Building construction | 21.60 |
| Badabas | 145 | 210-240 | Unemployment | 64 | Building construction | 26.10 |

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 :-

| Name of activity | No. of House holds | Average annual income from the / Lacs |
|--------------------------|--------------------|---------------------------------------|
| Cultivators | 1462 | 565.58 lacs |
| Dairying | 5 | 36 |
| Poultry | 107 | 2 |
| Piggery | Nil | Nil |
| Landless Agri. Labourers | 35 | 7.5 lacs |

| Name of activity | No. of House holds/individuals | Average annual income from the / Lacs |
|--|--------------------------------|---------------------------------------|
| Artisans | 25 | 8 |
| Carpenter | 112 | 25 |
| Black smith | 30 | 7 |
| Leather Craft | 20 | 2 |
| Porter | 28 | 2 |
| Mason | 60 | 5 |
| Others specify(Cycle Repair, STD, Craft etc) | 15 | 2 |

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 available | Assistance available | Source of assistance | Training received |
|-------|-----------------------------|---------|-------------------|----------------|----------------|----------------------|----------------------|-------------------|
| 1 | Daukion mahila bachat S H G | 11 | | 1100 | 6600 | | | |
| 2 | Karma bai mahila S H G | 12 | | 1200 | 7200 | | | |
| 3 | Maharaja surajmal S H G | 10 | | 1000 | 6000 | | | |

| | | | | | | | |
|---|-----------------------|----|--|------|------|--|--|
| 4 | SARITA S H G | 11 | | 1100 | 6600 | | |
| 5 | Pratibha mahila S H G | 10 | | 1000 | 5000 | | |
| 6 | CH. Charansingh S H G | 12 | | 1200 | 6000 | | |
| 7 | Shree Bhomiyaji | 10 | | 1000 | 2000 | | |
| 8 | Pabuji | 10 | | 1000 | 2000 | | |

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

II. Technical Features

Table 2.14 Ground Water :-

| S.No. | Source | No. | Functional depth | Dry | Area irrigated | Water availability(days) |
|-------|--------------------|-----|------------------|-----|----------------|--------------------------|
| i | Dug walls | 13 | 125' | 13 | Nil | -- |
| ii | Shallow tube wells | Nil | Nil | -- | -- | -- |
| iii | Pumping sets | Nil | Nil | -- | -- | -- |
| iv | Deep tube wells | 174 | 700' | -- | 500hact | 12 Month |
| | | | | | | |

Table 2.15 Availability of drinking water :-

| S.No. | Name of the village | Drinking water requirement Lts/day | Present availability of drinking ltrs/day | No. of drinking water sources available | No. functional | No. requires repairs | No. defunct ional |
|-------|---------------------|------------------------------------|---|---|----------------|----------------------|-------------------|
| | Cherai | 124766 | 62383 | 3 T.W. | Dry | Nil | 3 |
| | Mahadev Nagar | 62382 | 31191 | 1 T.W. | Dry | Nil | 1 |
| | Arjun Dev Nagar | 93574 | 46787 | 1T.W. | Dry | Nil | 1 |
| | Daukiyon ka Bas | 62382 | 31191 | 2 T.W. | Dry | Nil | 2 |
| | Badabas | 55570 | 27785 | 2 T.W. | Dry | Nil | 2 |

398674

Table 2.16 Water use efficiency :-

| Name of Major Crop | Area (Hectare) | | |
|--------------------|---|--|------------------------|
| | Through water saving devices (Sprinklers) | Through water conserving agronomic practices | Any other (pl specify) |
| Wheat | 6.6/kg/ha/mm | 2.5 | |
| Maize | 5.5/kg/ha/mm | 2.5 | |
| Vegitable | 22.22/kg/ha/mm | 10 | |

- The table 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 % | 5000 |
| 2 | 3 to 8 % | Nil |

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 :-**Table 2.18(a) Total available runoff (cum) use Stranges table :-**

| Area | Type of Catchment | Yield of runoff from catchment per hect. (cum.) use Stranges table | Total Runoff(cum.) |
|------|-------------------|--|--------------------|
| | Average | 93.27 | 623527.7 |
| | | | |

Table 2.18(b) Details of already stored runoff (Surface Water structures :-

| S.No. | Name | No. | Storage Capacity (cum) | Area irrigated (hect.) |
|-------|---------------------------|-----|-------------------------|------------------------|
| i | Major irrigation Project | Nil | – | Nil |
| ii | Medium irrigation Project | Nil | – | Nil |
| iii | Farm Pond / Tanks (Nadi) | 32 | 37505 | Nil |
| iv | Anicuts | Nil | – | Nil |
| | Total | Nil | – | Nil |

Table 2.18(c) Details of Proposed structure for Surface Waterstorage :-

| S.No. | Name | No. | Storage Capacity (cum) | Area irrigated (hect.) |
|-------|---------------------------|-----|-------------------------|------------------------|
| i | Major irrigation Project | Nil | – | Nil |
| ii | Medium irrigation Project | Nil | – | Nil |
| iii | Farm Pond / Tanks (Nadi) | 275 | 5500 | Nil |
| iv | Anicuts | Nil | – | Nil |
| | Total | | 5500 | Nil |

Table 2.18(d) Balance available runoff (cum) :-

| Total runoff (cum) | Net tapped Runoff (cum) | Balance Runoff (cum) | Percentage of water stored w.r.t total runoff |
|--------------------|-------------------------|----------------------|---|
| 1 | 2 | 3 | 4 |
| 623527.7 | 43005 | 580522.7 | 6.90 |

The water budgeting indicates potential for water harvesting in the area.

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.

Table 2. 19 Soil details

| A | | | Soil Profile | | |
|----------|---------------------------|--|---------------------|--|--|
| S.No. | Major Soil Classes | | Area in hectares | | |
| 1 | Sandy to loamy sand soils | | 5000 | | |
| 2 | | | | | |
| B | | | Soil Depth | | |
| | Depth (Cms) | | Area in hectares | | |
| 1 | 0.00 to 7.50 | | 5000 | | |
| 2 | 7.5 to 45.00 | | 5000 | | |
| 3 | >45.00 | | 5000 | | |

| C | Soil fertility Status | Kg/hect. | Recommended |
|----------|-----------------------|----------------|-------------|
| | N | 0.52 to 0.22 | |
| | P | 2.7 to 15.55 | |
| | K | 16.00 to 28.00 | |
| | Micronutrients | PPM | |
| | Iron | 4.8 to 9.5 | |
| | MN | 63.8 to 13.5 | |
| | CU | 0.85 to 1.9 | |
| | Zn | 0.8 to 2.2 | |

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 (hect.) | Runoff | Average soil loss | |
| Water erosion | | | | | |
| a | Sheet | 2510 | 250 | 2.1 | |
| b | Rill | 940 | 250 | 1.8 | |
| c | Gully | | | | |
| Sub Total | | | | | |
| Wind erosion | | 100 | | 4.5 | |
| | | | | | |

CHAPTER = III

Proposed
Development
Plan

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, Groupmeetings, door to door compaogn, slogans, and wall writings etc. were carried out in all the habitations of Jakhan watershed. A series of meetings were conducted with GP members, community and discussed about the implementation of IWMP programme. User groups were also formed.

Gram 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 of which Gram Shabha approved EPA |
|-------|----------------------------|--|
| 1 | Cherai | 22/02/2011 & 25/12/11 |
| | | |

| S.No. | Name of Village | Amount earmarked for EPA Lakh | Entry Point Activities planned | Estimated cost in lac. | Expenditure incurred | Balance | Expected outcome | Actual outcome |
|-------|--|-------------------------------|---|------------------------|----------------------|---------|------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | Cherai, Badabas, Mahadev nagar, Arjundev nagar & Daukiyon ka bas | 30 | 1.Instalation of Solar light DGSC item No. 27 | 7.50 | 6.85 | 0.65 | | Villagers are very happy |
| | | | 2.Drinking water activities | 22.50 | 22.5 | 0.00 | | |
| | | | - | - | - | - | - | |
| | Total w/s | | - | 30.00 | 29.35 | 0.65 | | |

| S.No. | Name of the village/ Habitation | Date on which PRA conducted |
|-------|---------------------------------|-----------------------------|
| 1 | Cherai | 05 -03-2011 to 20-04-2011 |
| 2 | Badabas | 21 -04-2011 to 20-06-2011 |
| 3 | Arjundev nagar | 21 -06-2011 to 20-08-2011 |
| 4 | Mahadev nagar | 21 -08-2011 to 20-10-2011 |
| 5 | Daukiyon ka bas | 21 -10-2011 to 31-12-2011 |

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

Transport work 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 05 -03- 2011 to 31- 12-2011 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 Khasra maps of the villages falling in project area
- Network of Drainage lines, existing water bodies, falling in the project area.
- Base maps (transport network, village / boundaries, and settlements)
- Land Use/Land cover map.
- Contours at 1 metre 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.8.2.). The GIS based intervention map, PRA based intervention map are annexed as.8.1

CHAPTER III

CONSOLIDATED DEVELOPMENT PLAN (PROJECT & OTHER SCHEME)

| | | | |
|--|--|-------------|---------------|
| STATE : RAJASTHAN | GEOGRAPHICAL AREA: 6685 Hact. | | |
| DISTRICT: JODHPUR | EFFECTIVE AREA : 5000 Hact. | | |
| NAME OF THE BLOCK: OSIAN | (i) ARABLE LAND | 4470 | |
| NAME OF WATERSHED: Jodhpur -25 (IWMP) | (ii) NON ARABLE LAND: 530 Hact. | | |
| CATEGORY OF WATERSHED: Desert Area | COST FROM IWMP PROJECT: 750 lac | | 750 |
| | COST FROM CONVERGENCE: | | 101.85 |
| | Consolidated | | 851.85 |

Total Cost in Lakh: 851.85

| S.No. | Activity | Unit | Total Target | | GP-Cherai | |
|------------|---|------|--------------|--------|-----------|--------|
| | | | Phy. | Fin. | Phy. | Fin. |
| A I | Administration cost | 10% | | 75.00 | | 75.00 |
| II | Monitoring | 1% | | 7.50 | | 7.50 |
| III | Evaluation | 1% | | 7.50 | | 7.50 |
| IV | Preparatory Phase (Entry Point Activity) | 4% | | 30.00 | | 30.00 |
| V | Institution and Capacity Building | 5% | | 37.50 | | 37.50 |
| VI | Preparation of Detailed Project Report (DPR) | 1% | | 7.50 | | 7.50 |
| | Total | 22% | | 165.00 | | 165.00 |
| B | Watershed Development Works (NRM) | 56% | | | | |
| I | Arable Land Conservation Measures | | | | | |
| 1 | Earthen Bund | Hact | 1605 | 176.55 | 1605 | 176.55 |
| 2 | Gully Control Structure (L.S.C.D.) | No. | 24 | 2.40 | 24 | 2.40 |
| 3 | Water Harvesting Tanka | No. | 250 | 249.25 | 250 | 249.25 |
| 4 | Wasteweir | No. | 20 | 10.00 | 20 | 10.00 |
| 5 | Percolation tank | | 25 | 25.00 | 25 | 25.00 |
| 6 | Diggi /Hauge | | 10 | 5.00 | 10 | 5.00 |
| | Total | | | 468.20 | | 468.20 |
| II | Non Arable Land Conservation Measures | | | | | |
| 1 | Ditch Cum Bund Fencing | Mt | 4500 | 13.80 | 4500 | 13.80 |
| 2 | Contour Furrow in Pasture Land | Hact | 100 | 12.25 | 100 | 12.25 |
| 3 | Contour Furrow in Non Arable Land | Hact | 100 | 12.25 | 100 | 12.25 |
| 4 | Earthen Bund | No. | 150 | 5.00 | 150 | 5.00 |
| 5 | Tanka | No. | 8 | 8.00 | 8 | 8.00 |
| | Total | | | 51.30 | | 51.30 |
| | Total Watershed Development Works | | | 519.50 | | 519.50 |
| C | Production System and Micro Enterprises | 19% | | | | |
| I | Arable Land Production System | | | | | |
| 1 | Crop/Feeder Demonstration | No. | 300 | 15.00 | | 15.00 |
| 2 | Agro Forestry | No. | 16000 | 3.00 | | 3.00 |
| 3 | Dry land Horticulture | No. | 20 | 6.00 | | 6.00 |
| 4 | Homestead Kitchen Garden | No. | 300 | 3.00 | | 3.00 |
| 5 | Organic Farming | | | | | |
| | i Compost Pit | No. | 200 | 4.00 | | 4.00 |
| | ii Vermi Compost Unit | No. | 20 | 2.00 | | 2.00 |
| 6 | Household Production System (For Marginal Farmer and landless Labour) Micro enterprises | | | | | |
| | i Small Live Stock - Goat and sheep Rearing | No. | 20 | 6.00 | | 6.00 |
| | ii Service sector Carpentry, Tailoring, Blacksmith, Repair shop for Cycle /Two | No. | 20 | 1.00 | | 1.00 |

| | | | | | | |
|------------|--|------|------|--------|------|--------|
| | Total | | | 40.00 | | 40.00 |
| II | Non Arable Land Production System | | | | | |
| 1 | Plantation in Pasture land and along DLT. | No. | 9275 | 10.85 | 9275 | 10.85 |
| 2 | Over seeding in Pasture Land | Hact | 100 | 2.35 | 100 | 2.35 |
| 3 | Over seeding in Non Arable Land | Hact | | 0.00 | | 2.35 |
| | Total | | | 15.55 | | 15.55 |
| III | Live Stock Management | | | | | |
| 1 | Animal Health Camps | No. | 20 | 4.80 | 20 | 4.80 |
| 2 | Mangers Distribution | No. | 500 | 5.00 | 500 | 5.00 |
| 3 | Cattlecare and Fodder storage centre | No. | 2 | 10.00 | 2 | 10.00 |
| 4 | Bull Distribution | No. | 4 | 2.00 | 4 | 2.00 |
| | Total | | | 21.80 | | 21.80 |
| | Total Production System | | | 75.00 | | 75.00 |
| D | Livelyhood | | | | | |
| | Revolving fund to SHG (>60% of 9%) | No. | 163 | 40.75 | | 40.75 |
| | Revolving fund to Enterperising Individual | No. | 27 | 6.75 | 27 | 6.75 |
| | Grant in aid to federation of SHG (30% of 9%) | No. | 10 | 20.00 | 10 | 20.00 |
| | Total | | | 67.50 | | 67.50 |
| E | Consolidation | 3% | | 22.50 | | 22.50 |
| | Grand Total | | | 851.85 | | 851.85 |

CHAPTER III

PROPOSED DEVELOPMENT PLAN THROUGH PROJECT FUND

STATE : RAJASTHAN

DISTRICT: JODHPUR

NAME OF THE BLOCK: OSIAN

NAME OF WATERSHED: Jodhpur -25 (IWMP)

CATEGORY OF WATERSHED: Desert Area

UNIT COST: Rs. 15000/- Per Hact.

GEOGRAPHICAL AREA: 6685 Hact.

EFFECTIVE AREA : 5000 Hact.

(i) ARABLE LAND : 4470 Hact.

(ii) NON ARABLE LAND : 530 Hact.

COST FROM IWMP PROJECT: 750.00

Total Cost in Lakh: **750** Lakh

| S.No. | Activitiy | Unit | Total Target | | GP-Cherai | | |
|----------|-----------|---|--------------|-------|---------------|-------|---------------|
| | | | Phy. | Fin. | Phy. | Fin. | |
| A | I | Administration cost | 10% | | 75.00 | | 75.00 |
| | II | Monitoring | 1% | | 7.50 | | 7.50 |
| | III | Evaluation | 1% | | 7.50 | | 7.50 |
| | IV | Preparatory Phase (Entry Point Activity) | 4% | | 30.00 | | 30.00 |
| | V | Institution and Capacity Building | 5% | | 37.50 | | 37.50 |
| | VI | Preparation of Detailed Project Report (DPR) | 1% | | 7.50 | | 7.50 |
| | | Total | 22% | | 165.00 | | 165.00 |
| B | | Watershed Development Works (NRM) | 56% | | | | |
| | I | Arable Land Conservation Measures | | | | | |
| | 1 | Earthen Bund | No. | 1305 | 143.55 | 1305 | 143.55 |
| | 2 | Gully Control Structure | No. | 24 | 2.40 | 24 | 2.40 |
| | 3 | Water Harvesting Tanka | No. | 200 | 200.00 | 200 | 200.00 |
| | 4 | Wasteweir | No. | 20 | 10.00 | 20 | 10.00 |
| | 5 | Percolation tank | No. | 25 | 25.00 | 25 | 25.00 |
| | 6 | Diggi /Hauje | | | | | |
| | | Total | | | 380.95 | | 380.95 |
| | II | Non Arable Land Conservation Measures | | | | | |
| | 1 | Ditch Cum Bund /Barbed wire Fencing | Mt | 4500 | 13.80 | 4500 | 13.80 |
| | 2 | Contour Furrow in Pasture Land | Hact | 100 | 12.25 | 100 | 12.25 |
| | 3 | Contour Furrow in Non Arable Land | Hact | | | | |
| | 4 | E.C.D. | No. | 50 | 5.00 | 50 | 5.00 |
| | 5 | Tanka | No. | 8 | 8.00 | 8 | 8.00 |
| | | Total | | | 39.05 | | 39.05 |
| | | Total Watershed Development Works | | | 420.0 | | 420.0 |
| C | | Production System and Micro Enterprises | 10% | | | | |
| | I | Arable Land Production System | | | | | |
| | 1 | Crop/Fooder Demonstration | No. | 300 | 15.00 | 300 | 15.00 |
| | 2 | Agro Forestry | No. | 16000 | 3.00 | 16000 | 3.00 |
| | 3 | Dry land Horticulture (Unit) | No. | 20 | 6.00 | 20 | 6.00 |
| | 4 | Homestead Kitchen Garden/Manger/Grain storage bin | No. | 300 | 3.00 | 300 | 3.00 |
| | 5 | Organic Farming | | | | | |
| | | i Compost Pit | No. | 200 | 4.00 | 200 | 4.00 |
| | | ii Vermi Compost Unit | No. | 20 | 2.00 | 20 | 2.00 |
| | 6 | Household Production System (For Marginal Farmer and landless Labour) Micro enterprises | | | | | |
| | | i Small Live Stock - Goat and sheep Rearing | No. | 20 | 6.00 | 20 | 6.00 |
| | | ii Service sector Carpentry, Tailoring, Blacksmith, Repair shop for Cycle /Two | No. | 20 | 1.00 | 20 | 1.00 |

| | | | | | | |
|------------|--|------|------|--------------|------|--------------|
| | Total | | | 40.00 | | 40.00 |
| II | Non Arable Land Production System | | | | | |
| 1 | Plantation in Pasture land and along DLT. | No. | 9275 | 10.85 | 9275 | 10.85 |
| 2 | Over seeding in Pasture Land | Hact | 100 | 2.35 | 100 | 2.35 |
| 3 | Over seeding in Non Arable Land | Hact | | | | |
| | Total | | | 13.20 | | 13.20 |
| III | Live Stock Management | | | | | |
| 1 | Animal Health Camps | No. | 20 | 4.80 | 20 | 4.80 |
| 2 | Mangers Distribution | No. | 500 | 5.00 | 500 | 5.00 |
| 3 | Cattlecare and Fodder storage centre | No. | 2 | 10.00 | 2 | 10.00 |
| 4 | Bull Distribution | No. | 4 | 2.00 | 4 | 2.00 |
| | Total | | | 21.80 | | 21.80 |
| | Total Production System | | | 75.00 | | 75.00 |
| D | Livelihood | 9% | | 67.50 | | 67.50 |
| | Revolving fund to SHG (>60% of 9%) | No. | 163 | 40.75 | 163 | 40.75 |
| | Revolving fund to Enterprising Individual | No. | 27 | 6.75 | 27 | 6.75 |
| | Grant in aid to federation of SHG (30% of 9%) | No. | 10 | 20.00 | 10 | 20.00 |
| | Total | | | 67.50 | | 67.50 |
| E | Consolidation | 3% | | 22.50 | | 22.50 |
| | Grand Total | | | 750.0 | | 750.0 |

CHAPTER III

PROPOSED DEVELOPMENT PLAN THROUGH CONVERGENCE

STATE : RAJASTHAN

DISTRICT: JODHPUR

NAME OF THE BLOCK: OSIAN

NAME OF WATERSHED: Jodhpur -25 (IWMP)

CATEGORY OF WATERSHED: Desert Area

GEOGRAPHICAL AREA: 6685.19 Hact.

EFFECTIVE AREA : 5000 Hact.

(i) ARABLE LAND : 4470Hact.

(ii) NON ARABLE LAND : 530Hact.

COST FROM CONVERGENCE: 101.85

Lakh

| S.No. | Activitiy | Unit | Total Target | | GP-cherai | | |
|----------|-----------|---|--------------|----------|-----------|------|----------|
| | | | Phy. | Fin. | Phy. | Fin. | |
| A | I | Administration cost | 10% | – | 0 | | 0 |
| | II | Monitoring | 1% | – | 0 | | 0 |
| | III | Evaluation | 1% | – | 0 | | 0 |
| | IV | Preparatory Phase (Entry Point Activity) | 4% | – | 0 | | 0 |
| | V | Institution and Capacity Building | 5% | – | 0 | | 0 |
| | VI | Preparation of Detailed Project Report (DPR) | 1% | – | 0 | | 0 |
| | | Total | 22% | – | 0 | | 0 |
| B | | Watershed Development Works (NRM) | 56% | | | | |
| | I | Arable Land Conservation Measures | | | | | |
| | 1 | Earthen Bund | Hact | 300 | 33.00 | 300 | 33 |
| | 2 | Gully Control Structure (Loose. Stone. Check. Dam.) | No. | | | | |
| | 3 | Water Harvesting Tanka | No. | 50 | 49.25 | 50 | 49.25 |
| | 4 | Wasteweir | No. | | | | |
| | 5 | Percolation tank | | | | | |
| | 6 | Diggi/ Hauje | No. | 10 | 5 | 10 | 5 |
| | | Total | | | 87.25 | | 87.25 |
| | II | Non Arable Land Conservation Measures | | | | | |
| | 1 | Ditch Cum Bund Fencing | Mt | | | | |
| | 2 | Contour Furrow in Pasture Land | Hact | | | | |
| | 3 | Contour Furrow in Non Arable Land | Hact | 100 | 12.25 | 100 | 12.25 |
| | 4 | Earthen Bund | No. | | | | |
| | 5 | Tanka | | | | | |
| | | Total | | | 12.25 | | 12.25 |
| | | Total Watershed Development Works | | | 99.50 | | 99.5 |
| C | | Production System and Micro Enterprises | | | | | |
| | I | Arable Land Production System | 19% | | | | |
| | 1 | Crop/Fooder Demonstration | | | | | |
| | 2 | Agro Forestry | No. | | | | |
| | 3 | Dry land Horticulture (Unit) | No. | | | | |
| | 4 | Homestead Kitchen Garden | No. | | | | |
| | 5 | Organic Farming | | | | | |
| | | i Compost Pit | No. | | | | |
| | | ii Vermi Compost Unit | No. | | | | |
| | 6 | Household Production System (For Marginal Farmer and landless Labour) Micro enterprises | | | | | |
| | | i Small Live Stock - Goat and sheep Rearing | No. | | | | |
| | | ii Service sector Carpentry, Tailoring, Blacksmith, Repair shop for Cycle /Two | No. | | | | |
| | | Total | | | | | |
| | II | Non Arable Land Production System | | | | | |

| | | | | | | |
|------------|---|------|-----|--------|-----|--------|
| 1 | Plantation in Pasture land and along DLT. | No. | | | | |
| 2 | Over seeding in Pasture Land | Hact | | | | |
| 3 | Over seeding in Non Arable Land | Hact | 100 | 2.35 | 100 | 2.35 |
| | Total | | | 2.35 | | 2.35 |
| III | Live Stock Management | | | | | |
| 1 | Fodder Demonstration | No. | | | | |
| 2 | Mangers Distribution | No. | | | | |
| 3 | Animal Health Camps | No. | | | | |
| 4 | Bull distribution | | | | | |
| | Total | | | | | |
| | Total Production System | | | | | |
| D | Livelyhood | | 9% | | | |
| | Revolving fund to SHG (>60% of 9%) | No. | | | | |
| | Revolving fund to Enterperising Individual(10% of 9%) | No. | | | | |
| | Grant in aid to federation of SHG (30% of 9%) | No. | | | | |
| | Total | | | | | |
| E | Consolidation | | | | | |
| | Grand Total | | | 101.85 | | 101.85 |

CHAPTER IV

ACTIVITY WISE TOTAL ABSTRACT COST

CHAPTER IV
ACTIVITY WISE TOTAL ABSTRACT COST

STATE : RAJASTHAN

DISTRICT: JODHPUR

NAME OF THE BLOCK: OSIAN

NAME OF WATERSHED: Jodhpur -25 (IWMP)

CATEGORY OF WATERSHED: Desert Area

GEOGRAPHICAL AREA: 6685 Hact.

EFFECTIVE AREA : 5000 Hact.

(i) ARABLE LAND : 4470 Hact.

(ii) NON ARABLE LAND : 530 Hact.

COST FROM IWMP PROJECT : 750.00 Lacs

COST FROM CONVERGENCE : Total Cost :

| S.No. | Activity | Unit | Quantity | Unit Cost | Total Cost | Cost from Project | Cost from Convergence | Beneficiary contribution* |
|----------|--|-------|----------|-------------|------------|-------------------|-----------------------|---------------------------|
| A | I | | | | | | | |
| | I | 10% | | | 75.00 | 75.00 | | |
| | II | 1% | | | 7.50 | 7.50 | | |
| | III | 1% | | | 7.50 | 7.50 | | |
| | IV | 4% | | | 30.00 | 30.00 | | |
| | V | 5% | | | 37.50 | 37.50 | | |
| | VI | 1% | | | 7.50 | 7.50 | | |
| | Total | 22% | | | 165.00 | 165.00 | | |
| B | Watershed Development Works (NRM) | 56% | | | | | | |
| | I | | | | | | | |
| | Arable Land Conservation Measures | | | | | | | |
| | 1 | No. | 1605 | | 176.55 | 143.55 | 33.00 | |
| | 2 | No. | 24 | | 2.40 | 2.40 | | |
| | 3 | No. | 250 | | 249.25 | 200.00 | 49.25 | |
| | 4 | No. | 20 | 50000/nos. | 10.00 | 10.00 | | |
| | 5 | No. | 25 | 1 lakh/nos. | 25.00 | 25.00 | | |
| | 6 | No. | 10 | | 5.00 | | 5.00 | |
| | Total | | | | 468.20 | 380.95 | 87.25 | |
| | II | | | | | | | |
| | Non Arable Land Conservation Measures | | | | | | | |
| | 1 | Mts. | 4500 | | 13.80 | 13.80 | | |
| | 2 | Hact. | 100 | 1225 | 12.25 | 12.25 | | |
| | 3 | Hact. | 100 | 1225 | 12.25 | | 12.25 | |
| | 4 | No. | 50 | 1000 | 5.00 | 5.00 | | |
| | 5 | No. | 8 | | 8.00 | 8.00 | | |
| | Total | | | | 51.30 | 39.05 | 12.25 | |
| | Total Watershed Development Works | | | | 519.50 | 420.00 | 99.50 | |
| C | Production System and Micro Enterprises | 19% | | | | | | |
| | I | | | | | | | |
| | Arable Land Production System | | | | | | | |
| | 1 | No. | 300 | 5000 | 15.00 | 15.00 | | |

| | | | | | | | | |
|------------|---|-------|-------|---------------|--------|--------|--------|--|
| 2 | Agro Forestry | No. | 16000 | | 3.00 | 3.00 | | |
| 3 | Dry land Horticulture (Unit) | No. | 20 | 30000 | 6.00 | 6.00 | | |
| 4 | Homestead Kitchen Garden | No. | 300 | 1000 | 3.00 | 3.00 | | |
| 5 | Organic Farming | | | | 0.00 | | | |
| | i Compost Pit | No. | 200 | 2000 | 4.00 | 4.00 | | |
| | ii Vermi Compost Unit | No. | 20 | 10000 | 2.00 | 2.00 | | |
| 6 | Household Production System (For Marginal , small Farmer and landless Labour) Micro enterprises | | | | | | | |
| | Live stock- | | | | 6.00 | 6.00 | | |
| | Service sector Carpentry, Tailoring,Blacksmith, Cycle Repair shop | | | | 1.00 | 1.00 | | |
| | Total | | | | 40.00 | 40.00 | | |
| II | Non Arable Land Production System | | | | | | | |
| 1 | Plantation in Pasture land and along DLT line. | No. | 9275 | | 10.85 | 10.85 | | |
| 2 | Over seeding in Pasture Land | Hact. | 100 | 2350/hac. | 2.35 | 2.35 | | |
| 3 | Over seeding in Non Arable Land | Hact. | 100 | 2350/hac. | 2.35 | | 2.35 | |
| | Total | | | | 15.55 | 13.20 | 2.35 | |
| III | Live Stock Management | | | | | | | |
| 1 | Animal Health Camps | No. | 20 | 24000/camp | 4.80 | 4.80 | | |
| 2 | Mangers Distribution | No. | 250 | 2000/nos | 5.00 | 5.00 | | |
| 3 | Cattlecare and fodder storage centre | No. | 2 | 5lakh/nos | 10.00 | 10.00 | | |
| 4 | Bull Distribution | No. | 4 | 50000/nos. | 2.00 | 2.00 | | |
| | Total | | | | 21.80 | 21.80 | | |
| | Total Production System | | | | 75.00 | 75.00 | | |
| D | Livelyhood | | | | 67.50 | 67.50 | | |
| | Revolving fund to SHG (>60% of 9%) | No. | 163 | 25000/shg | 40.75 | 40.75 | | |
| | Revolving fund to Enterperising Individual | No. | 27 | 25000/ind. | 6.75 | 6.75 | | |
| | Grant in aid to federation of SHG (30% of 9%) | No. | 10 | 2.00 Lakh/ Fe | 20.00 | 20.00 | | |
| | Total | | | | 67.5 | 67.50 | | |
| E | Consolidation | 3% | | | 22.50 | 22.50 | | |
| | Grand Total | | | | 851.85 | 750.00 | 101.85 | |

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

Rates will be taken prevailing at the time of execution of work

CHAPTER V

ANNUAL ACTION PLAN

| | | | | | | | | | | | | | | | | | | | |
|------------|---|-------|------|-----------|--------|--|-------|-------|--|--------|------|--------|------|--------|------|-------|------|----|-------|
| 1 | Crop/Fooder Demonstration | No. | 300 | 5000 | 15.00 | | | 0 | | 0 | | 300 | 15 | | | | | | |
| 2 | Agro Forestry | No. | 1600 | | 3.00 | | | 0 | | 0 | | 800 | 1.5 | 800 | 1.5 | | | | |
| 3 | Dry land Horticulture (Unit) | No. | 20 | 30000 | 6.00 | | | 0 | | 5 | 1.5 | 5 | 1.5 | 10 | 3 | | | | |
| 4 | Homestead Kitchen Garden/Grain Storage bin | No. | 300 | 1000 | 3.00 | | | 0 | | 100 | 1 | 100 | 1 | 100 | 1 | | | | |
| 5 | Organic Farming | | | | | | | | | | | | | | | | | | |
| | i Compost Pit | No. | 200 | 2000 | 4.00 | | | | | 50 | 1 | 50 | 1 | 50 | 1 | 50 | 1 | | |
| | ii Vermi Compost Unit | No. | 20 | 10000 | 2.00 | | | | | 50 | 0.5 | 5 | 0.5 | 5 | 0.5 | 5 | 0.5 | | |
| 6 | Household Production System (For Marginal Farmer and landless Labour) Micro enterprises | | 40 | | 7.00 | | | | | 10 | 2 | 10 | 2 | 10 | 1.5 | 10 | 1.5 | | |
| | Total | | | | 40.00 | | | | | 6 | | 22.5 | | 8.5 | | 3 | | | 0 |
| II | Non Arable Land Production System | | | | | | | | | | | | | | | | | | |
| 1 | Plantation in Pasture land and along DLT line. | No. | 9275 | | 10.85 | | | | | 7000 | 4.79 | 2275 | 3.56 | | 1 | | 0.75 | | 0.75 |
| 2 | Over seeding in Pasture Land | Hact. | 100 | | 2.35 | | | | | 50 | 1.1 | 50 | 1.25 | | | | | | |
| 3 | Over seeding in Non Arable Land | Hact. | 100 | | 2.35 | | | | | 50 | 1.1 | 50 | 1.25 | | | | | | |
| | Total | | | | 15.55 | | | | | 6.99 | | 6.06 | | 1 | | 0.75 | | | 0.75 |
| III | Live Stock Management | | | | | | | | | | | | | | | | | | |
| 1 | Animal Health Camps | No. | 20 | 24000 | 4.80 | | | | | 4 | 0.96 | 4 | 0.96 | 4 | 0.96 | 4 | 0.96 | 4 | 0.96 |
| 2 | Mangers Distribution | No. | 250 | 2000 | 5.00 | | | | | 50 | 1 | 50 | 1 | 50 | 1 | 50 | 1 | 50 | 1 |
| 3 | Cattle care and fodder storage center | | 2 | 500000 | 10.00 | | | | | | 1 | 5 | 1 | 5 | | | | | |
| 4 | Bull Distribution | No. | 4 | 50000 | 2.00 | | | | | | 2 | 1 | 2 | 1 | | | | | |
| | Total | | | | 21.80 | | | | | 1.96 | | 7.96 | | 7.96 | | 1.96 | | | 1.96 |
| | Total Production System | | | | 77.35 | | | | | 14.95 | | 36.52 | | 17.46 | | 5.71 | | | 2.71 |
| D | Livelihood | 9% | | | | | | | | | | | | | | | | | |
| | Revolving fund to SHG (>60% of 9%) | No. | 163 | 25000/no | 40.75 | | | | | 24 | 6 | 37 | 9.25 | 44 | 11 | 44 | 11 | 14 | 3.5 |
| | Revolving fund to Enterperising Individual (10% of 9%) | No. | 27 | 25000/no | 6.75 | | | | | 20 | 5 | 7 | 1.75 | 0 | 0 | 0 | 0 | | |
| | Grant in aid to federation of SHG (30% of 9%) | No. | 10 | 2.00lakh/ | 20.00 | | | | | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 |
| | Total | | | | 67.50 | | | | | 15 | | 15 | | 15 | | 15 | | | 7.5 |
| E | Consolidation | 3% | | | 22.50 | | | | | | | | | 7.5 | | 7.5 | | | 7.5 |
| | Grand Total | | | | 784.30 | | 18.75 | 61.25 | | 192.62 | | 310.90 | | 179.11 | | 60.71 | | | 28.46 |

CHAPTER V

ANNUAL ACTION PLAN THROUGH PROJECT FUND

STATE : RAJASTHAN

DISTRICT: JODHPUR

NAME OF THE BLOCK: OSIAN

NAME OF WATERSHED: Jodhpur -25 (IWMP)

CATEGORY OF WATERSHED: Desert Area

IRRIGATION PERCENTAGE : 10%

GEOGRAPHICAL AREA: 6685 Hact.

EFFECTIVE AREA : 5000 Hact.

(i) ARABLE LAND : 4470 Hact

(ii) NON ARABLE LAND : 570 Hact.

TOTAL

COST THROUGH CONVERGENCE FUND :

| S.No. | Activitiy | Unit | Quantity | Unit cost | Total cost | I st Year | | II st Year | | III st Year | | IV st Year | | V st Year | | VI st Year | | VII st Year | | |
|----------|-----------|---|----------|-----------|------------|----------------------|-------|-----------------------|-------|------------------------|-------|-----------------------|-------|----------------------|-------|-----------------------|------|------------------------|-------|------|
| | | | | | | Phy. | Fin. | Phy. | Fin. | Phy. | Fin. | Phy. | Fin. | Phy. | Fin. | Phy. | Fin. | Phy. | Fin. | |
| A | I | Administration cost | 10% | | 75.00 | | 5.75 | | 12.75 | | 12.75 | | 12.75 | | 12.75 | | 10 | | 8.25 | |
| | II | Monitoring | 1% | | 7.50 | | 0.25 | | 0.5 | | 0.75 | | 1 | | 2 | | 2 | | 1 | |
| | III | Evaluation | 1% | | 7.50 | | 0.25 | | 0.5 | | 0.75 | | 1 | | 2 | | 2 | | 1 | |
| | IV | Preparatory Phase (Entry Point Activity) | 4% | | 30.00 | | 5 | | 25 | | | | | | | | | | | |
| | V | Institution and Capacity Building | 5% | | 37.50 | | 5 | | 20 | | 12.5 | | | | | | | | | |
| | VI | Preparation of Detailed Project Report (DPR) | 1% | | 7.50 | | 2.5 | | 2.5 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | |
| | | Total | 22% | | 165.00 | | 18.75 | | 61.25 | | 27.25 | | 15.25 | | 17.25 | | 14.5 | | 10.75 | |
| B | | Watershed Development Works (NRM) | 56% | | | | | | | | | | | | | | | | | |
| | I | Arable Land Conservation Measures | | | | | | | | | | | | | | | | | | |
| | 1 | Earthen Bund | No. | 1305 | 11000/ha | 143.55 | | 0 | | 0 | 200 | 22 | 500 | 55 | 500 | 55 | 105 | 11.55 | | 0 |
| | 2 | Gully Control Structure (Loose. Stone. Check. Dam.) | No. | 24 | 10000/no | 2.40 | | 0 | | 0 | 10 | 1 | 10 | 1 | 4 | 0.4 | | | | 0 |
| | 3 | Water Harvesting Tanka | No. | 200 | 1lac/nos | 200.00 | | 0 | | 0 | 50 | 50 | 100 | 100 | 50 | 50 | | | | 0 |
| | 4 | Wasteweir | No. | 20 | 50000/no | 10.00 | | 0 | | 0 | 5 | 2.5 | 5 | 2.5 | 5 | 2.5 | 5 | 2.5 | | 0 |
| | 5 | Percolation tank | No. | 25 | 1 lakh/no | 25.00 | | | | | | | 15 | 15 | 10 | 10 | | | | |
| | 6 | Diggi/Hauje | No. | | | | | | | | | | | | | | | | | |
| | | Total | | | | 380.95 | | 0 | | 0 | | 75.5 | | 173.5 | | 117.9 | | 14.05 | | 0 |
| | II | Non Arable Land Conservation Measures | | | | | | | | | | | | | | | | | | |
| | 1 | Ditch Cum Bund Fencing | Mts. | 4500 | | 13.80 | | 0 | | 0 | 2500 | 7.67 | 2000 | 6.13 | | 0 | | 0 | | 0 |
| | 2 | Contour Furrow in Pasture Land | Hact. | 100 | | 12.25 | | 0 | | 0 | 50 | 6.25 | 50 | 6 | | 0 | | 0 | | 0 |
| | 3 | Contour Furrow in Non Arable Land | Hact. | | | | | 0 | | 0 | | | | | | 0 | | 0 | | 0 |
| | 4 | Earthen Bund | No. | 50 | | 5.00 | | 0 | | 0 | 20 | 2 | 30 | 3 | | 0 | | 0 | | 0 |
| | 5 | Tanka | No. | 8 | | 8.00 | | 0 | | 0 | | | | | 4 | 4 | 4 | 4 | | 0 |
| | | Total | | | | 39.05 | | 0 | | 0 | | 15.92 | | 15.13 | | 4 | | 4 | | 0 |
| | | Total Watershed Development Works | | | | 420.00 | | 0.00 | | 0.00 | | 91.42 | | 188.63 | | 121.90 | | 18.05 | | 0.00 |
| C | | Production System and Micro Enterprises | 19% | | | | | | | | | | | | | | | | | |
| | I | Arable Land Production System | | | | | | | | | | | | | | | | | | |
| | 1 | Crop/Fooder Demonstration | No. | 300 | 5000 | 15.00 | | 0 | | 0 | | 300 | 15 | | | | | | | |
| | 2 | Agro Forestry | No. | 1600 | | 3.00 | | 0 | | 0 | | 800 | 1.5 | 800 | 1.5 | | | | | |
| | 3 | Dry land Horticulture (Unit) | No. | 20 | 30000 | 6.00 | | 0 | | 5 | 1.5 | 5 | 1.5 | 10 | 3 | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|-----|---|-------|-------|----------|--------|--|-------|---|-------|------|--------|------|--------|-----|--------|----|-------|-------|------|
| 4 | Homestead Kitchen Garden/Grain Storage bin | No. | 300 | 1000 | 3.00 | | | 0 | | 100 | 1 | 100 | 1 | 100 | 1 | | | | |
| 5 | Organic Farming | | | | | | | | | | | | | | | | | | |
| | i Compost Pit | No. | 200 | 2000 | 4.00 | | | | | 50 | 1 | 50 | 1 | 50 | 1 | 50 | 1 | | |
| | ii Vermi Compost Unit | No. | 20 | 10000 | 2.00 | | | | | 50 | 0.5 | 5 | 0.5 | 5 | 0.5 | 5 | 0.5 | | |
| 6 | Household Production System (For Marginal Farmer and landless Labour) Micro enterprises | | 40 | | 7.00 | | | | | 10 | 2 | 10 | 2 | 10 | 1.5 | 10 | 1.5 | | |
| | Total | | | | 40.00 | | | | | | 6 | | 22.5 | | 8.5 | | 3 | 0 | |
| II | Non Arable Land Production System | | | | | | | | | | | | | | | | | | |
| 1 | Plantation in Pasture land and along DLT line. | No. | 11200 | | 10.85 | | | | | 7000 | 4.79 | 4200 | 3.56 | | 1 | | 0.75 | 0.75 | |
| 2 | Over seeding in Pasture Land | Hact. | 100 | | 2.35 | | | | | 50 | 1.1 | 50 | 1.25 | | | | | | |
| 3 | Over seeding in Non Arable Land | Hact. | | | | | | | | | | | | | | | | | |
| | Total | | | | 13.20 | | | | | | 5.89 | | 4.81 | | 1 | | 0.75 | 0.75 | |
| III | Live Stock Management | | | | | | | | | | | | | | | | | | |
| 1 | Animal Health Camps | No. | 20 | 24000 | 4.80 | | | | | 4 | 0.96 | 4 | 0.96 | 4 | 0.96 | 4 | 0.96 | 4 | 0.96 |
| 2 | Mangers Distribution | No. | 250 | 2000 | 5.00 | | | | | 50 | 1 | 50 | 1 | 50 | 1 | 50 | 1 | 50 | 1 |
| 3 | Cattle care and fodder storage center | | 2 | 500000 | 10.00 | | | | | | | 1 | 5 | 1 | 5 | | | | |
| 4 | Bull Distribution | No. | 4 | 50000 | 2.00 | | | | | | | 2 | 1 | 2 | 1 | | | | |
| | Total | | | | 21.80 | | | | | | 1.96 | | 7.96 | | 7.96 | | 1.96 | 1.96 | |
| | Total Production System | | | | 75.00 | | | | | | 13.85 | | 35.27 | | 17.46 | | 5.71 | 2.71 | |
| D | Livelihood | 9% | | | 67.50 | | | | | | | | | | | | | | |
| | Revolving fund to SHG (>60% of 9%) | No. | 163 | 25000/n | 40.75 | | | | | 24 | 6 | 37 | 9.25 | 44 | 11 | 44 | 11 | 14 | 3.5 |
| | Revolving fund to Enterprising Individual (10% of 9%) | No. | 27 | 25000/n | 6.75 | | | | | 20 | 5 | 7 | 1.75 | 0 | 0 | 0 | 0 | | |
| | Grant in aid to federation of SHG (30% of 9%) | No. | 10 | 2.00lakh | 20.00 | | | | | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 |
| | Total | | | | 67.50 | | | | | | 15 | | 15 | | 15 | | 15 | 7.5 | |
| E | Consolidation | 3% | | | 22.50 | | | | | | | | | | 7.5 | | 7.5 | 7.5 | |
| | Grand Total | | | | 750.00 | | 18.75 | | 61.25 | | 147.52 | | 254.15 | | 179.11 | | 60.76 | 28.46 | |

| | | | | | | | | | | | | | | | | | | |
|------------|---|-------|-----|--|--------|--|---|----|-------|----|-------|--|------|--|------|--|--|------|
| 4 | Homestead Kitchen Garden/Grain Storage bin | No. | | | | | | | | | | | | | | | | |
| 5 | Organic Farming | | | | | | | | | | | | | | | | | |
| | i Compost Pit | No. | | | | | | | | | | | | | | | | |
| | ii Vermi Compost Unit | No. | | | | | | | | | | | | | | | | |
| 6 | Household Production System (For Marginal Farmer and landless Labour) Micro enterprises | | | | | | | | | | | | | | | | | |
| | Total | | | | | | | | | | | | | | | | | |
| II | Non Arable Land Production System | | | | | | | | | | | | | | | | | |
| 1 | Plantation in Pasture land and along DLT line. | No. | | | | | | | | | | | | | | | | |
| 2 | Over seeding in Pasture Land | Hact. | | | | | | | | | | | | | | | | |
| 3 | Over seeding in Non Arable Land | Hact. | 100 | | 2.35 | | | 50 | 1.1 | 50 | 1.25 | | | | | | | |
| | Total | | | | 2.35 | | | | 1.1 | | 1.25 | | 0 | | 0 | | | 0 |
| III | Live Stock Management | | | | | | | | | | | | | | | | | |
| 1 | Animal Health Camps | No. | | | | | | | | | | | | | | | | |
| 2 | Mangers Distribution | No. | | | | | | | | | | | | | | | | |
| 3 | Cattle care and fodder storage center | | | | | | | | | | | | | | | | | |
| 4 | Bull Distribution | No. | | | | | | | | | | | | | | | | |
| | Total | | | | 0.00 | | | | 0 | | 0 | | 0 | | 0 | | | 0 |
| | Total Production System | | | | 2.35 | | | | 1.1 | | 1.25 | | 0 | | 0 | | | 0 |
| D | Livelihood | | | | | | | | | | | | | | | | | |
| | Revolving fund to SHG (>60% of 9%) | No. | | | | | | | | | | | | | | | | |
| | Revolving fund to Enterprising Individual (10% of 9%) | No. | | | | | | | | | | | | | | | | |
| | Grant in aid to federation of SHG (30% of 9%) | No. | | | | | | | | | | | | | | | | |
| | Total | | | | | | | | | | | | | | | | | |
| E | Consolidation | | | | | | | | | | | | | | | | | |
| | Grand Total | | | | 101.85 | | 0 | 0 | 45.10 | | 56.75 | | 0.00 | | 0.00 | | | 0.00 |

Prosed Development Plan

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 | 176.09 | 172.15 | Due to Increase in Number of Deep Tube wells |
| 2 | Ground water structures repaired/ rejuvenated | No. | - | | |
| 3 | Quality of drinking water | Description | Unsatisfactory | Satisfactory | Because of water storage structure |
| 4 | Availability of drinking water | Description | 8 Month | 12 month | |
| 5 | Change in irrigated Area | Ha | 500 | 820 | |
| 6 | Change in cropping/ land use pattern | Description | 2020 | 1200 | |
| 7 | Area under agricultural crop | Ha | | | |
| | I Area under single crop | Ha | 4070 | 4700 | |
| | li Area under double crop | Ha | 500 | 820 | |
| | lii Area under multiple crop | Ha | - | - | |
| 8 | Change in cultivated Area | Ha | | - | |
| 9 yield of major crops of area | Yield of Bajra | q/ha | 6 | 7 | |
| | Yield of Wheat | q/ha | 18 | 21 | |
| | Yield of Gram | q/ha | - | - | |
| | Yield of Mustard | q/ha | 12 | 14 | |
| 10 production of major crops of area | Production of Bajra | ton | 48.12 | 52.50 | |
| | Production of Wheat | ton | 10.08 | 15.20 | |
| | Production of Gram | ton | - | - | |
| | Production of Mustard | ton | 8.40 | 12.20 | |
| 11 | Area under vegetable | Ha | - | | |
| 12 | Area under horticulture | Ha | - | | |
| 13 | Area under fuel | Ha | - | | |
| 14 | Area under Fodder | Ha | - | | |
| 15 | Fodder production | tonnes | 6815 | 9800 | |
| 16 | Milk production | Litres/day | 3756 | 6350 | |
| 17 | SHGs Active | No. | 2 | 163 | |
| 18 | No. of livelihoods | No. | - | - | |
| 19 | Income | Rs.in la | - | - | |
| 20 | Migration | No. | 510 | 110 | |
| 21 | SHG Federations formed | No. | nil | 10 | |

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. Estimates are prepared on the basis of GKN of Jodhpur district.

DESIGN OF BUND IN ARABLE LAND

1. $V. I. = 0.3\left(\frac{S}{3} + 2\right)$ - Ramser Formula

$$= 0.3\left(\frac{1}{3} + 2\right)$$

$$= 0.70 \text{ m.}$$

V. I. = Vertical interval between two consecutive bund (m.)

S = Land slop (%)

$$H. I. = \frac{V.I.}{S} \times 100$$

$$= \frac{0.70}{1} \times 100 = 70 \text{ m.} \quad (H. I. = \text{Horizontal Interval})$$

2. Depth of Impounding

$$h = \sqrt{\frac{R_{ex} \times V.I.}{50}}$$

h = Depth of impounding

Re = 24 hours rainfall excess (cm.) for 10 years R. I.

= Rainfall – interception

$$H = \sqrt{\frac{20 \times 0.70}{50}}$$

$$= 0.52 \text{ cm.}$$

Say = 50 cm.

3. Height of Bund

$$H = h + \text{Free board}$$

$$= 0.50 + 0.25$$

$$= 0.75 \text{ CMS.}$$

4. Top width of Bund

$$= \frac{H}{2} = \frac{0.75}{2} = 0.375$$

$$\text{Say} = 0.40 \text{ cms}$$

The side slopes of the bunds are dependent upon the internal fractional angle of the fill material. For light red loam and sandy loam soils, the side slope for the both the sides is taken 1.5:1

5. Cross section of the Bund:

$$\text{Cross section area of the bund} = \frac{\text{Top width} + \text{Bottom width}}{2} \times \text{height}$$

$$= \frac{0.40 + 2.65}{2} \times 0.75$$

$$= 1.14 \text{ sqm.}$$

DESIGN OF WASTE WEIR

Calculation of peak rate of runoff

$$Q = \frac{CIA}{36} \quad (\text{Rational formula})$$

$$= \frac{0.3 \times 5 \times 23}{36} = 0.96 \text{ m}^3$$

$$Q = 1.71 Lh^{3/8}$$

or

$$L = \frac{Q}{1.71 h^{3/8}}$$

Where L = Length of crest in mt.

h = depth of flow over the crest in mt.

$$L = \frac{0.96}{1.71 \times 0.3^{3/8}} = 3.55 \text{ m}$$

DESIGN OF BUND IN ARABLE LAND TYPE-I

Name of Water Shed Cherai (Jodhpur -25) IWMP

Name of P.S. Osian

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

$$0.305(0.8 \times 1 + 1.0)$$

$$V.I = 0.549$$

V.I Vertical interval

X= Rain Fall Factor

0.8

Y= Factor due to soil infiltration & Crop cover

1

S= Percent slope

1

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

$$He = 0.549 \quad \text{Say} \quad 0.50 \text{ Cm.}$$

He Depth of impounding

Re 24Hour rainfall excess in Cms. for 10 year recurrence interval

45.62

V.I Vertical interval

0.549

$$\text{Total Height of Bund} = 0.50 + 0.30 = 0.80 \text{ Cms}$$

$$\text{Top width of Bund} = 0.35 \text{ Cms.}$$

$$\text{Bottom width of Bund} = 2.75$$

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

$$X \text{ Section} = \frac{(0.35 + 2.75) \times .8}{2}$$

$$X \text{ Section} = 1.24 \text{ Sqmt.}$$

DESIGN OF EARTHEN BUND TYPE-II

Name of Water Shed : Cherai (Jodhpur -25) IWMP

Name of P.S. Osian

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

$$V.I = \frac{0.305(0.8 \times 2 + 1.0)}{0.793}$$

V.I Vertical interval

X= Rain Fall Factor 0.8

Y= Factor due to soil infiltration & Crop cover 1

S= Percent slope 2

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

He= 0.723 Say 0.75 Cm.

He Depth of impounding

Re 24Hour rainfall excess in Cms. for 10 year recurrence interval 45.62

V.I Vertical interval 1.037

Total Height of Bund= 0.75 + 0.45 = 1.20 Cms

Top width of Bund = 0.6 Cms.

Bottom width of Bund = 4.20

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

X Section= $\frac{(0.6 + 4.20) \times 1.20}{2}$

X Section= 2.88 Sqmt.

DESIGN OF EARTHEN BUND TYPE -III

Name of Water Shed : Jodhpur -25 (IWMP)

Name of Block: Osian

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

$$V.I = 0.305(0.8 \times 3 + 1.)$$

| | | |
|-----|--|-----|
| V.I | Vertical interval | |
| X= | Rain Fall Factor | 0.8 |
| Y= | Factor due to soil infiltration & Crop cover | 1 |
| S= | Percent slope | 3 |

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

$$He = .946 \quad \text{Say} \quad 0.95\text{Cm.}$$

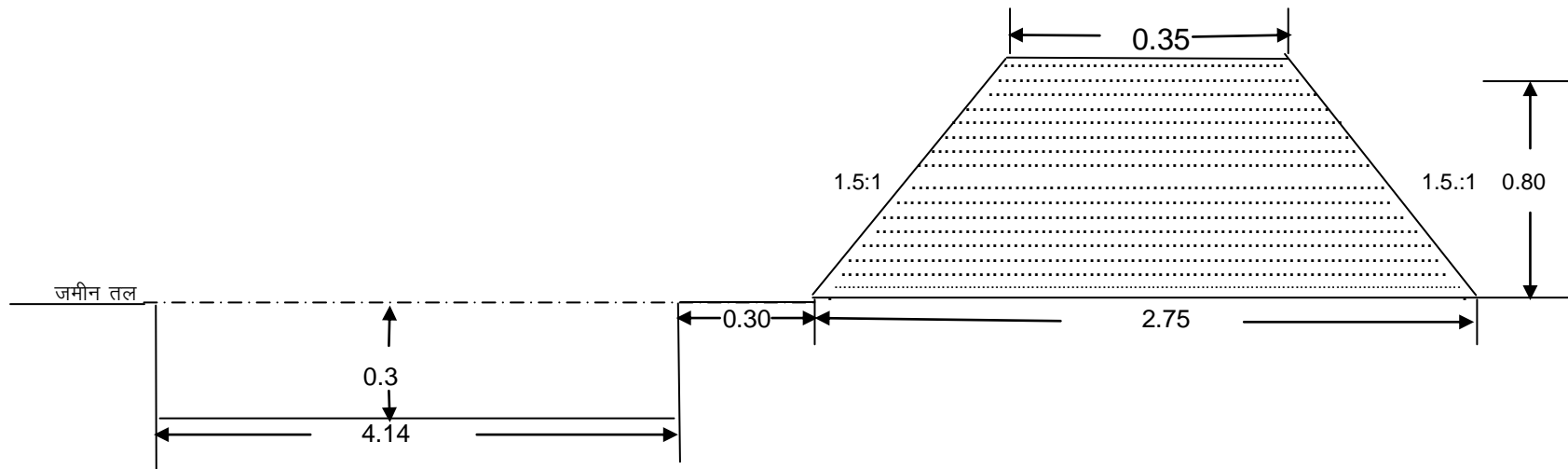
| | | |
|-----|--|-------|
| He | Depth of impounding | |
| Re | 24Hour rainfall excess in Cms. for 10 year recurrence interval | 45.62 |
| V.I | Vertical interval | 0.95 |

| | | | |
|-----------------------|--------|--------|----------|
| Total Height of Bund= | 0.95 + | 0.55 = | 1.50 ms |
| Top width of Bund | = | | 0.75 ms. |
| Bottom width of Bund | = | | 5.25 |

$$\text{Cross section of bund} = \frac{(\text{Top width of Bund} + \text{Bottom width of Bund}) \times \text{Height}}{2} \quad \text{X Section} = \frac{(0.75 + 5.25) \times 1.50}{2}$$

$$\text{X Section} = 4.50 \text{ sqmt.} \quad \text{Say } 4.50 \text{ sqmt.}$$

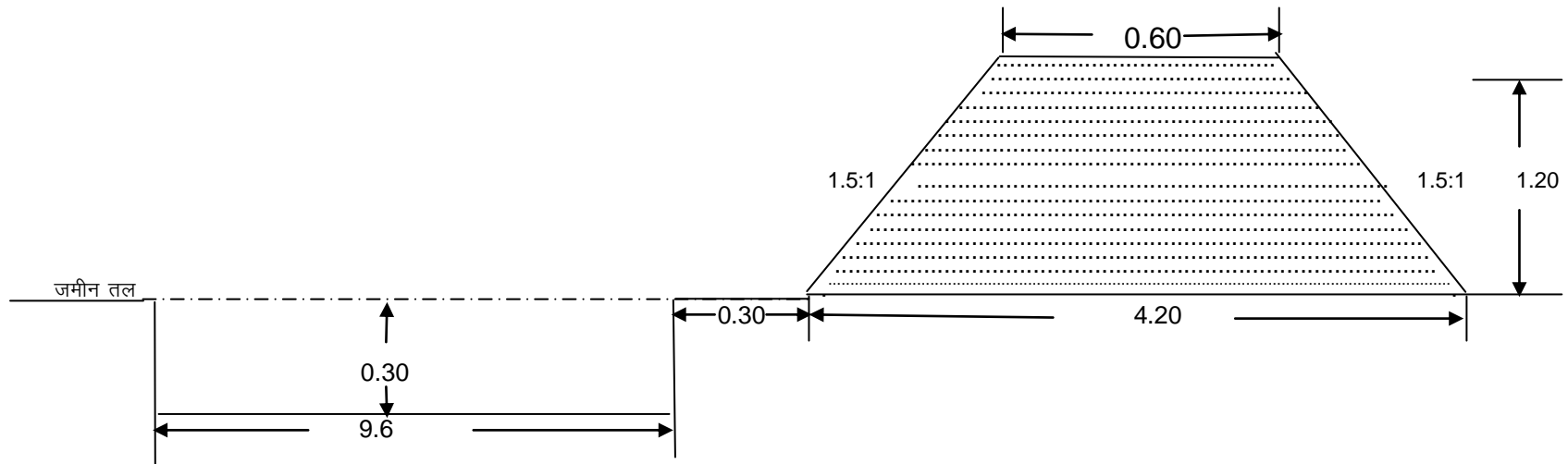
CROSS SECTION OF EARTHAN BUND TYPE I



(All Measurement in Meter)

$$\begin{aligned} \text{Cross Sec.} &= \frac{(2.75+0.35) \times 0.80}{2} \\ &= 1.24 \text{ Sqm} \end{aligned}$$

CROSS SECTION OF EARTHAN BUND TYPE - II

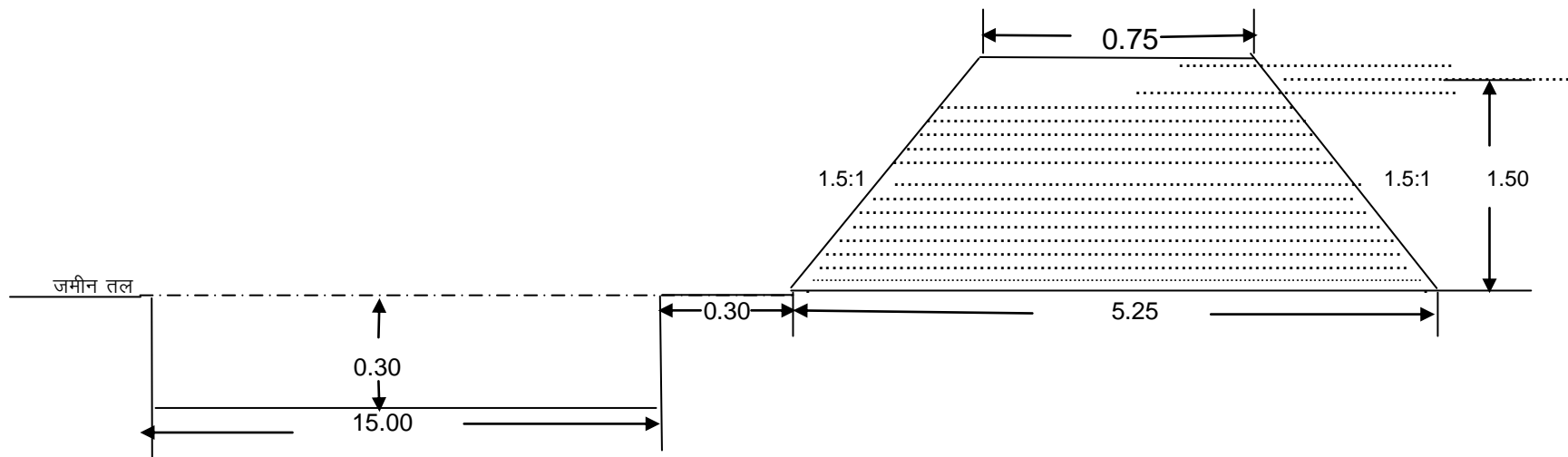


All Measurement in Meter)

$$\text{Cross Sec.} = \frac{((4.20+0.60)) \times 1.20}{2} = 2.88 \text{ Say } 2.88 \text{ sqmt.}$$

$$\text{Cross Sec.} = 2.88 \text{ sqmt.}$$

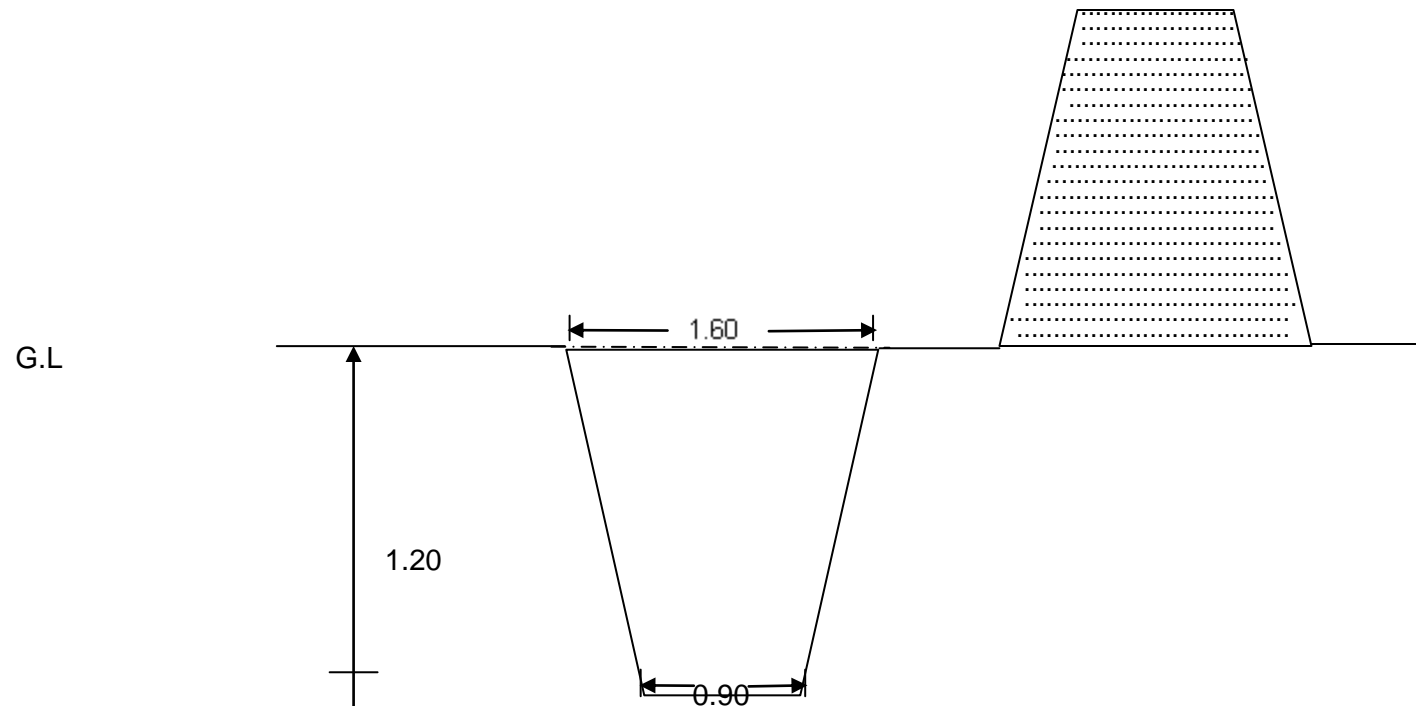
CROSS SECTION OF EARTHAN BUND TYPE - III



(All Measurement in Meter)

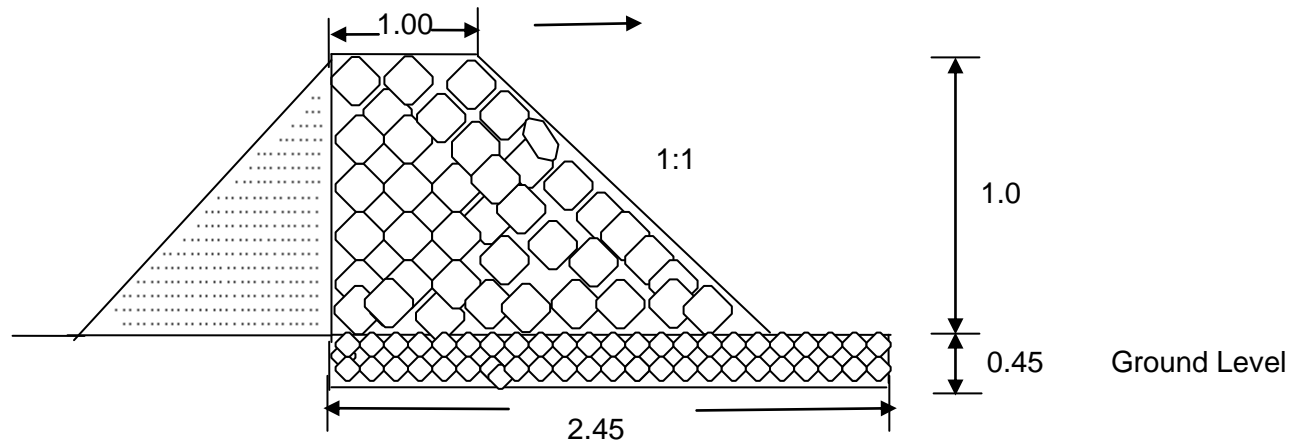
$$\begin{aligned} \text{Cross Sec.} &= ((5.25+0.75) / 2) \times 1.50 \\ &= 4.50 \text{ Sqm} \end{aligned}$$

CROSS SECTION OF DITCH CUM BUND FENCING



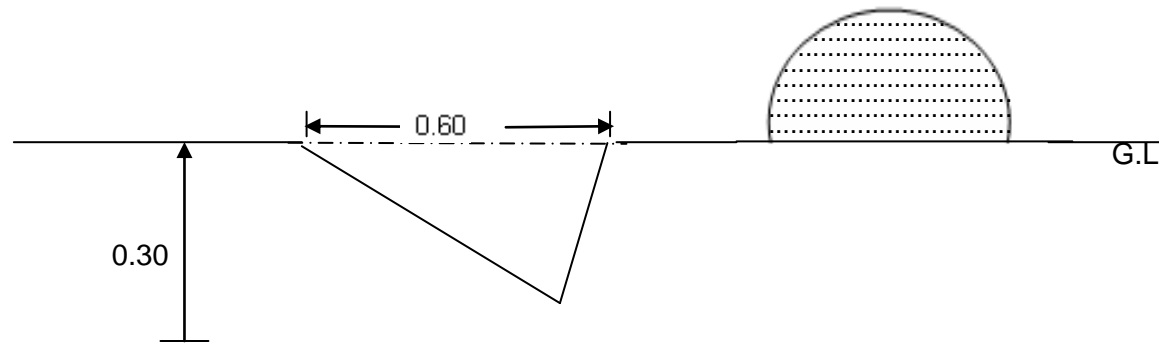
$$\begin{aligned} \text{Cross Sec.} &= \frac{(1.50+0.0.90)}{2} \times 1.20 \\ &= 1.44 \text{ Sqm} \end{aligned}$$

CROSS SECTION OF L.S.C.D



$$\begin{aligned} \text{Cross Sec.} &= ((1.00+2.00) / 2) \times 1.00 \\ &= 1.50 \text{ Sqm} \end{aligned}$$

CROSS SECTION OF CONTOUR FURROW



$$\text{Cross Sec.} = \frac{1}{2} \times 0.60 \times 0.30$$

$$= 0.09 \text{ sqm.}$$

लागत तकमीना

नाम जल ग्रहण क्षेत्र-चेराई

कार्य का नाम- कृषि भूमि पर
वेजीटेटिव बन्ध

1.00 35.00

| क्र.सं. | विवरण | मात्रा | इकाई | दर | | राशि | |
|---------|---|--------|---------|------|--------|-----------------|-----------------|
| | | | | श्रम | कुल | श्रम | कुल |
| 1 | डाग बेलिंग 2.5 से 5 सेमी गहराई तक (जि.स्त. दर.अनु.2010पृ.सं025 क.सं. 182) | 70.00 | मीटर | 0.7 | 0.70 | 49.00 | 49.00 |
| 2 | मिट्टी का कार्य बन्ध में (सूखी या गीली) 15 सेमी परत में डालना, ढेलों को तोडना, घास-पात तथा कंकर बीनकर अलग करना तथा मिट्टी की दरेसी करना 1.5 मी0 उठाना तथा 50 मीटर दूरी के लिए। कठोर मिट्टी में मिट्टी की कुटाई मानव द्वारा या प्लेन रोलर द्वारा ।(जि.स्त.दर | 100.80 | घ.मी. | 100 | 100.00 | 10080.00 | 10080.00 |
| 3 | धामन/घास बीज बुवाई बनाये गये रिज पर दो लाईनों में (जि.स्त.दर.अनु.2010पृ.सं020 क.सं. 129) | 105.00 | मीटर | 0.6 | 0.60 | 63.00 | 63.00 |
| 4 | धामन घास बीज | 1.00 | कि.ग्रा | - | 61.50 | | 61.50 |
| | योग | | | | | 10192.00 | 10253.50 |
| | योग | | | | | | 10253.50 |
| | जोडा 4: कन्टोजेन्सी | | | | | | 410.14 |
| | योग | | | | | | 10663.64 |
| | लागत श्रम भाग | | | | | | 10192.00 |
| | लागत सामग्री भाग | | | | | | 471.64 |
| | कुल योग | | | | | | 10663.64 |

Say 11000.00

लागत तकमीना

नाम जल ग्रहण क्षेत्र—चेराई

कार्य का नाम— कृषि भूमि पर
वेजीटेटिव बन्ड

1.00

22.50

| क्र.सं. | विवरण | मात्रा | इकाई | दर | | राशि | |
|---------|---|--------|---------|------|--------|----------------|-----------------|
| | | | | श्रम | कुल | श्रम | कुल |
| 1 | डाग बेलिंग 2.5 से 5 सेमी गहराई तक (जि.स्त. दर.अनु.) | 45.00 | मीटर | 0.7 | 0.70 | 31.50 | 31.50 |
| 2 | मिट्टी का कार्य बन्ध में (सूखी या गीली) 15 सेमी परत में डालना, ढेलों को तोड़ना, घास-पात तथा कंकर बीनकर अलग करना तथा मिट्टी की दरेसी करना 1.5 मी० उठाना तथा 50 मीटर दूरी के लिए। कठोर मिट्टी में मिट्टी की कुटाई मानव द्वारा या प्लेन रोलर द्वारा।(जि.स्त.दर | 101.25 | घ.मी. | 85 | 100.00 | 8606.25 | 10125.00 |
| 3 | धामन/घास बीज बुवाई बनाये गये रिज पर दो लाईनों में (जि.स्त.दर.अनु.) | 67.50 | मीटर | 0.6 | 0.60 | 40.50 | 40.50 |
| 4 | धामन घास बीज | 1.00 | कि.ग्रा | - | 61.50 | | 61.50 |
| | योग | | | | | 8678.25 | 10258.50 |
| | योग | | | | | | 10258.50 |
| | जोडा 4: कन्टोजेन्सी | | | | | | 410.34 |
| | योग | | | | | | 10668.84 |
| | लागत श्रम भाग | | | | | | 8678.25 |
| | लागत सामग्री भाग | | | | | | 1990.59 |
| | कुल योग | | | | | | 10668.84 |

Say

11000.00

MODEL ESTIMATE

नाम जल ग्रहण क्षेत्र— चेराई

कार्य का नाम—कृषि भूमि पर वानिकी पौधारोपण

पौधो की संख्या: 100

| क्र.सं. | विवरण | मात्रा | इकाई | दर | | राशि | |
|---------|---|--------|---------------|------|--------|----------------|----------------|
| | | | | श्रम | कुल | श्रम | कुल |
| 1 | 45ग45ग45 सेमी. माप के गड्डे करना कठोर मिट्टी 400 गड्डे/हैक्टर (जि.स्त.दर.अनु. | 100 | संख्या | 6.80 | 6.80 | 680.00 | 680.00 |
| 2 | पौधे रोपण करना (जि.स्त.दर.अनु.2011 | 100 | संख्या | 3.00 | 3.00 | 300.00 | 300.00 |
| 3 | पौधों की कीमत | 108 | संख्या | - | 5.00 | - | 540.00 |
| 4 | पौधों का परिवहन पौधे भराई एवं खाली कराई सहित 5 कि०मी. दूरी तक के लिए | 108 | संख्या / 1000 | - | 908.21 | | 98.09 |
| 5 | पौधे रोपण के समय डीएपी डालना | 3 | कि.ग्रा. | - | 10.00 | - | 30.00 |
| 6 | दीमक नियन्त्रण हेतु एन्डोसल्फान 4: चूर्ण | 10 | कि.ग्रा. | - | 12.00 | - | 120.00 |
| 7 | पौधो में उर्वरक एवं कीट नाशक दवाई डालना | 100 | संख्या | 0.21 | 0.21 | 21.00 | 21.00 |
| | योग | | | | | 1001.00 | 1789.09 |
| | | | | | | | |
| | योग | | | | | | 1789.09 |
| | जोडा 4: कन्टोजेन्सी | | | | | | 71.56 |
| | योग | | | | | | 1860.65 |
| | लागत श्रम भाग | | | | | | 1001.00 |
| | लागत सामग्री भाग | | | | | | 859.65 |
| | कुल योग | | | | | | 1860.65 |
| | | | | | | Say | 1900.00 |

Say 19 रु / पौधा

लागत तकमीना

कार्य का नाम – कम्पोस्ट पिट यूनिट

| क्र.सं. | विवरण | मात्रा | इकाई | दर | | राशि | |
|---------|--|--------|----------|---------|--------|----------------|----------------|
| | | | | श्रम | कुल | श्रम | कुल |
| 1 | नींव, खाई परनाला में 1.5 गहराई तक मिट्टी का खुदाई करना, तल को कूटना, पानी डालना, बगल को संवारना, खुदी मिट्टीको बाहर निकालना, नींव भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर दूरी तक निस्तारण करना। सख्त, चिकनी, | 10.80 | घ.मी | 100.00 | 100.00 | 1080.00 | 1080.00 |
| 2 | सिंगल सुपर फास्फेट | 150.00 | कि.ग्रा. | - | 4.00 | - | 600.00 |
| 3 | यूरिया | 30.00 | कि.ग्रा. | | 6.00 | - | 180.00 |
| 4 | कल्चर पैकिंट | 3.00 | संख्या | - | 10.00 | - | 30.00 |
| | योग | | | | | 1080.00 | 1890.00 |
| | योग | | | | | | 1890.00 |
| | जोडा 4: कन्टोजेन्सी | | | | | | 75.60 |
| | योग | | | | | | 1965.60 |
| | लागत श्रम भाग | | | | | | 1080.00 |
| | लागत सामग्री भाग | | | | | | 885.60 |
| | कुल योग | | | 137.778 | | | 1965.60 |
| | | | | | | Say | 2000.00 |

लागत तकमीना

कार्य का नाम— फलदार पौधों की यूनिट

यूनिट का क्षेत्रफल: 0.20 हैक्टेयर(55 पौधे/यूनिट)

| क्र.सं. | विवरण | मात्रा | इकाई | दर | | राशि | |
|---------|--|--------|----------|-------|--------|----------------|----------------|
| | | | | श्रम | कुल | श्रम | कुल |
| 1 | नीव, खाई परनाला में 1.5 गहराई तक मिट्टी का खुदाई करना, तल को कूटना, पानी डालना, बगल को संवारना, खुदी मिट्टीको बाहर निकालना, नीव भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर दूरी तक निस्तारण करना। सख्त, चिकनी, | 40.09 | घ.मी. | 92.00 | 92.00 | 3688.28 | 3688.28 |
| 2 | गोबर की खाद | 550 | कि.ग्रा. | - | 2.50 | - | 1375.00 |
| 3 | सुपरफास्फेट | 20 | कि.ग्रा. | - | 3.50 | - | 70.00 |
| 4 | पोटाश | 5.00 | कि.ग्रा. | - | 4.00 | - | 20.00 |
| 5 | यूरिया | 12 | कि.ग्रा. | - | 5.00 | - | 60.00 |
| 6 | दीमक की रोकथाम हेतु कीटनाशक दवाई (एन्डोसल्फान 4: चूर्ण) | 6 | कि.ग्रा. | - | 12.00 | - | 72.00 |
| 7 | पौधे रोपण करना (जि.स्त.दर.अनु.2011) | 55 | संख्या | 3.00 | 3.00 | 165.00 | 165.00 |
| 8 | पौधों की कीमत | 55 | संख्या | - | 15.00 | - | 825.00 |
| 9 | पौधो पर लगने वाले कीडे मकोडो के नियंत्रण हेतु मोनोक्रोटोफॉस 36 इ.सी | 0.25 | लीटर | - | 360.00 | - | 90.00 |
| 10 | पौधों में उर्वरक एवं दवाई डालना (जि.स्त.दर.अनु.2011) | 110 | संख्या | 0.21 | 0.21 | 23.10 | 23.10 |
| | योग | | | | | 3876.38 | 6388.38 |
| | योग | | | | | | 6388.38 |
| | जोडा 4: कन्टोजेन्सी | | | | | | 255.54 |
| | योग | | | | | | 6643.92 |
| | लागत श्रम भाग | | | | | | 3876.38 |
| | लागत सामग्री भाग | | | | | | 2767.54 |
| | कुल योग | | | | | | 6643.92 |
| | | | | | | Say | 6700.00 |

विस्तृत तकमीना

नाम जल ग्रहण क्षेत्र— चेराई

कार्य का नाम— फलदार पौधों की यूनिट

यूनिट का क्षेत्रफल: 0.20 हैक्टेयर (55 पौधे / यूनिट)

| क्र.सं. | विवरण | ल.गचौ.गग. = कुल मात्रा |
|---------|---|--|
| 1 | नींव, खाई परनाला में 1.5 गहराई तक मिट्टी का खुदाई करना, तल को कूटना, पानी डालना, बगल को संवारना, खुदी मिट्टी को बाहर निकालना, नींव भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर दूरी तक निस्तारण करना। सख्त, चिकनी, | $55 \times 0.90 \times 0.90 \times 0.90 = 40.09$ घ.मी |
| 2 | गोबर की खाद | 55 गड्डे / 10 कि.ग्रा. / गड्डा = 550 कि.ग्रा. |
| 3 | सुपरफास्फेट | 55 गड्डे / 0.35 कि.ग्रा. / गड्डा = 19.25 कि.ग्रा. say 20 कि.ग्रा. |
| 4 | पोटाश | 55 गड्डे / 0.08 कि.ग्रा. / गड्डा = 4.4 कि.ग्रा. say 5.00 कि.ग्रा. |
| 5 | यूरिया | 55 गड्डे / 0.22 कि.ग्रा. / गड्डा = 12.10 कि.ग्रा. say 12.00 कि.ग्रा. |
| 6 | दीमक की रोकथाम हेतु कीटनाशक दवाई (एन्डोसल्फान 4: चूर्ण) | 55 गड्डे / 0.10 कि.ग्रा. / गड्डा = 5.50 कि.ग्रा. say 6.00 कि.ग्रा. |
| 7 | पौधे रोपण करना | 55 |
| 8 | पौधों की कीमत | 55 |
| 9 | पौधों पर लगने वाले कीड़े मकोड़ों के नियंत्रण हेतु मोनोक्रोटोफॉस 36 इ.सी | 0.25 लीटर. / यूनिट |
| 10 | ikS/kksa essa moZjd ,oa nokbZ Mkyuk | 110 |

10 यूनिट

DITCH CUM BUND

DETAILED ESTIMATE AND ABSTRACT OF COST

Name Of Work: Construction Of Ditch Cum bund (DCB)

| क्र.सं. | कार्य विवरण | मात्रा | दर | प्रति | राशि |
|---------|---|--|-------|-------|--------|
| 1 | बण्ड का ले आउट | 2x1=2.00 | 0.70 | Met. | 1.40 |
| 2 | जंगल की सफाई, भारी झाड़ियों तथा 30 से.मी. लपेट तक के पोधों को काटने समेत। | 2.0x1.0=2.00 | 1.70 | Sqm. | 3.40 |
| 4 | नींव व ट्रेंचेच मे मिट्टी की खुदाई का कार्य, खुदी हुई मिट्टी का निस्तारण तथा समतल करना। सख्त मिट्टी में/ककरं मिली मिट्टी में | $1 \times \frac{1.50 + 0.9 \times 1.20}{2} = 1.44$ | 92.00 | Cum. | 132.50 |

TOTAL 137.30

Add 4% Contingency 5.49

G. TOTAL 142.79

Say Rs. 143.00

Per Met.

DCB Work in 1400.00 Meter (10 Ha)=1400.00x143.00= 200200.00

Cost Per Ha.=200200.00/10 =20020.00

Say Rs.=20000.00

(Rupees Twenty Thousand only)

Note: Rate has been taken from the BSR issued by Zila Parishad Jodhpur on 8/4/2011.

W. D. T. (Technical)

I. W. M. P.

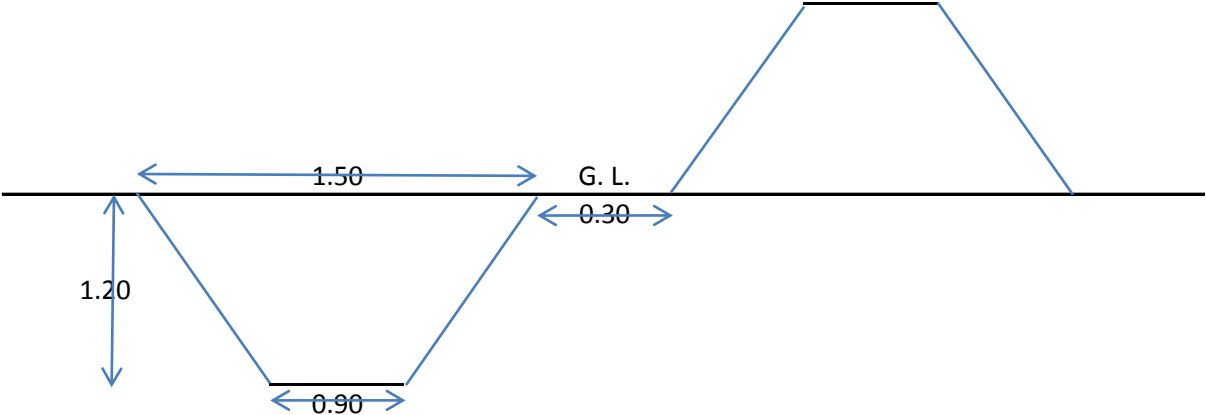
P. S. Osian

A. En. & P. I. A.

I. W. M. P.

P. S. Osian

Name Of Work: Construction Of Ditch Cum Bund (DCB)



X-Section Of Ditch Cum bund (DCB)

All Dimentions are in Meter
Not in Scale

W. D. T. (Technical)
I. W. M. P.
P. S. Osian

A. En. & P. I. A.
I. W. M. P.
P. S. Osian

Scheme: IWMP

Watershed: ...Cherai (Jodhpur-25)

Gram Panchayat: ...Cherai

Panchayat Samiti: Osian

Didtrict: Jodhpur

DETAILS OF WORK AND ABSTRACT OF COST

कार्य का नाम :-पत्थर की पथी से कांटेदार फेंसिंग का कार्य

L 3280

| क्र.सं. | कार्य का विवरण | सं. | विशेष विवरण | | | मात्रा | | ईकाई | दर | | राशि | |
|---------|---|-----|-------------|-----|-------|--------|---------|------|-------|--------|-------|--------|
| | | | ल. | चौ. | ऊं/ग. | फीट | कुल मी. | | श्रम | कुल | श्रम | कुल |
| 1 | कांटेदार लोहे के तारे से फेन्सिंग -180 सेमी उंचाई की फेन्सिंग पत्थर की पथी की 3 मीटर दूरी से व 45 सेमी जमीन में सीमेन्ट कंकरीट 1:2:4 (30x 45x 60 सेमी) साथ में 6 लाईन व 2 ज़ायोगनल लाईन में काला कांटेवाला तार दो पोस्ट के बीच फिट व फिक्स करना जी.आई. स्टेपल तार से (मिटटी के खुदाई का कार्य सम्मिलित) | 1 | 3280 | | | 3280 | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | 3280 | 1000 | RM | 15.20 | 231.00 | 15196 | 230941 |

15196 230941

| राशि | | |
|-----------------------------|---|--------|
| श्रम | A | 15196 |
| सामग्री | B | 215745 |
| कुल | C | 230941 |
| Add 4% for conti. D=(C*.04) | | 9238 |
| कुल C+D | | 240178 |

Say **240178**

4500
m

1080803

सामग्री की आवश्यकता

कार्य का नाम :-पत्थर की पढी से कांटेदार फेंसिंग का कार्य

| क्र.सं. | कुल सामग्री आवश्यकता | ईकाई | मात्रा | दर | राशि |
|---------|----------------------|-----------|---------|-----|----------|
| 1 | सीमेन्ट | बेग | 167.0 | 260 | 43420.00 |
| 2 | बजरी | घन मी. | 14.00 | 400 | 5600 |
| 3 | एग्रीटग 12 मिमी | घन मी. | 27.00 | 425 | 11475.00 |
| 4 | पत्थर की पढी | वर्ग. मी. | 226.00 | 300 | 67800.00 |
| 5 | कांटेदार तार | कि.ग्रा. | 1085.00 | 50 | 54250.00 |
| 6 | पानी व अन्य | | | | 33200.00 |
| | | | कुल योग | | 215745 |

Note:-Rate has been taken from the BSR issued by Zila Parisad Jodhpurb on 01/4/2012 .

सामग्री की आवश्यकता

कार्य का नाम :-एंगल आयरन से कांटेदार फेंसिंग का कार्य

| क्र.सं. | कुल सामग्री आवश्यकता | ईकाई | मात्रा | दर | राशि |
|---------|----------------------|----------|---------|-----|-----------|
| 1 | सीमेन्ट | बेग | 167.0 | 260 | 43420.00 |
| 2 | बजरी | घन मी. | 14.00 | 400 | 5600 |
| 3 | एग्रीटग 12 मिमी | घन मी. | 27.00 | 425 | 11475.00 |
| 4 | एंगल आयरन | कि.ग्रा. | 4764.00 | 43 | 204852.00 |
| 5 | कांटेदार तार | कि.ग्रा. | 1085.00 | 50 | 54250.00 |
| 6 | पानी व अन्य | | | | 16017.00 |
| | | | कुल योग | | 335614 |

Note:-Rate has been taken from the BSR issued by Zila Parisad Jodhpurb on 1/4/2012 .

Name of W/S :- Cherai (Jodhpur-25)

Name of work :- Tanka construction

| | |
|--|--|
| | |
|--|--|

Amount : 100024

| S. No | Details of work | No. | Measurements | | |
|-------|------------------|-----|--------------|-----|------|
| | | | Dia | B | H |
| 1 | Complete O/O | 1 | 13 | 0 | 13 |
| 2 | Hall I/I | 1 | 10 | | 12.5 |
| 5 | E/W | 1 | 132.71 | 1 | 11 |
| 6 | Concrete | 1 | 132.71 | 1 | 0.5 |
| 7 | Masonry | 1 | 36.122 | 1.5 | 12.5 |
| | | | | 0 | |
| 8 | G.L to P.L | 1 | | | 2 |
| 9 | Aslat | 2 | 11 | 1 | 0.5 |
| 12 | Door | 1 | 1.5 | 1.5 | 1 |
| 13 | Ventilator | -2 | 0 | 1 | 1 |
| 16 | Flooring in side | 1 | 78.525 | 1 | 1 |
| | | | | | |
| 17 | Flooring on top | 1 | 132.71 | 1 | 1 |
| | | 1 | 1.5 | 1.5 | 1 |

6 Ordinary soil
5 Hard soil
0 Disintegrated rock

DETAILS OF WORK AND ABSTRACT OF COST

| S. no | | no | L | B | W | Qty. | Qyy.m ks | | Lab.rate | total rate | lab amt | total amt. | | |
|-------|--|-------------|-------|-------|------|----------|----------|----------|----------|------------|---------|------------|---------|-----------|
| 1 | Earth work in excavation in foundatin lift 1.5m and lead up to 50m | 0.785 | 13.5 | 13.5 | 6 | 858.398 | | | | | | | | |
| | | 0.785 | 13.5 | 13.5 | 5 | 715.3313 | 20.244 | cum | 100 | 100 | 2024.39 | 2024.3874 | | |
| | | 0.785 | 13.5 | 13.5 | 0 | 0 | 0 | | 134 | 134 | 0 | 0 | | |
| | | | | | | | | | | | | | | |
| | Extra Lift | | | | | | | | | | | | | |
| | | First lift | 1 | 0.785 | 13.5 | 13.5 | 5 | 715.3313 | 20.244 | cum. | 11.80 | 11.80 | 238.878 | 238.87772 |
| | | Second lift | 2 | 0.785 | 13.5 | 13.5 | 0 | 0 | 0 | cum. | 23.60 | 23.60 | 0 | 0 |
| 2 | P/L cement concrete in 1:4:8 | 0.785 | 13.5 | 13.5 | 0.5 | 71.53313 | | | | | | 0 | | |
| | | | | | | 0 | | | | | | 0 | | |
| | | | | | | 0 | | | | | | 0 | | |
| | | | | | | 0 | | | | | | 0 | | |
| | | | | | | 0 | | | | | | 0 | | |
| | | | | | | | 71.53313 | 2.02 | cum. | 358.10 | 1891.00 | 723.362 | 3819.82 | |
| 3 | RRSM in foundation in 1:6 cement mortar | 3.14 | 11.75 | 1.5 | 12.5 | 691.7813 | | | | | | 0 | | |
| | | | | | | 0 | | | | | | 0 | | |
| | | | | | | 0 | | | | | | 0 | | |
| | | | | | | 691.7813 | 19.58 | cum. | 525.30 | 2019.00 | 10285.4 | 39532.02 | | |
| 4 | Lintel in cement mortar | | | | | | | | | | | 0 | | |
| | | 2 | 10 | 1 | 0.5 | 10 | | | | | | 0 | | |
| | | | | | | 10 | 0.280 | cum. | 1326.70 | 4304.00 | 371.476 | 1205.12 | | |
| 5 | Jodhper stone patti roofing in 1:4 cement mortar | 0.785 | 13 | 13 | 1 | 132.665 | | | | | | 0 | | |
| | | | | | | 0 | | | | | | 0 | | |
| | | -1 | 1.5 | 1.5 | 1 | -2.25 | | | | | | 0 | | |
| | | | | | | 130.415 | 12.11 | sqm. | 299.70 | 825.00 | 3629.37 | 9990.75 | | |
| 6 | P/L cement concrete in 1:2:4 50mm thick on roofing | 0.785 | 13 | 13 | 1 | 132.665 | | | | | | 0 | | |
| | | -1 | 1.5 | 1.5 | 1 | -2.25 | | | | | | 0 | | |
| | | | | | | 130.415 | 12.11 | sqm. | 101.30 | 230.00 | 1226.74 | 2785.3 | | |
| 7 | | 0.785 | 10 | 10 | 1 | 78.5 | | | | | | 0 | | |
| | | | | | | | | | | | | 0 | | |
| | | | | | | 0 | | | | | | 0 | | |
| | | | | | | 78.5 | 7.29 | sqm. | 101.30 | 230.00 | 738.477 | 1676.7 | | |

| | | | | | | | | | | | | |
|----|--|------|-------|-----|------|---------|--------|------|--------|--------|---------|-----------|
| 8 | 25mm cement plaster in 1:6 cement mortar | 3.14 | 10 | 1 | 12.5 | 392.5 | | | | | 0 | 0 |
| | | | | | | | | | | | 0 | 0 |
| | | | | | | 392.5 | 36.46 | sqm. | 86.40 | 147.00 | 3150.14 | 5359.62 |
| 9 | Flush pointing in 1:3 cement mortar | 3.14 | 13 | 1 | 2 | 81.64 | | | | | | 0 |
| | | | | | | 0 | | | | | | 0 |
| 10 | C.R. facing in II sort | | | | | 81.64 | 7.58 | sqm. | 45.80 | 56.00 | 347.164 | 424.48 |
| | | | | | | | 7.58 | | 93.00 | 93.00 | 704.94 | 704.94 |
| | | | | | | | | | | | | 0 |
| 10 | Providing and fixing of gate | 1 | 1.5 | 1.5 | 1 | 2.25 | | | | | | 0 |
| | | | | | | | | | | | | 0 |
| | | | | | | 2.25 | | sqm. | | | 0 | 0 |
| 11 | | 0 | 31 | 1 | 1.5 | 0 | 0 | cum. | 320.00 | 792.00 | 0 | 500 |
| 12 | Catchment of gravel/murram Transportation lead 3km | 3.14 | 38 | 13 | 0.5 | 2001.75 | 56.65 | cum. | | 45 | 0 | 2549.2286 |
| | | | | | | | 56.65 | cum. | 45.9 | 95.8 | | 5427.0245 |
| | | | | | | | 56.65 | cum. | 37 | 37 | 2096.03 | 2096.0324 |
| 13 | Stone chap Boundry | 3.14 | 38.25 | 1 | 4 | 480.42 | 44.626 | sqm. | 69.6 | 355 | 3105.98 | 15842.31 |
| 14 | Supply and fixing of Hand pump | | | | | | 1 | Nos. | | | 0 | 1500.00 |
| 15 | Signe board and photographs | | | | | 0 | | | | | 0 | 500 |

28642.3 96176.607

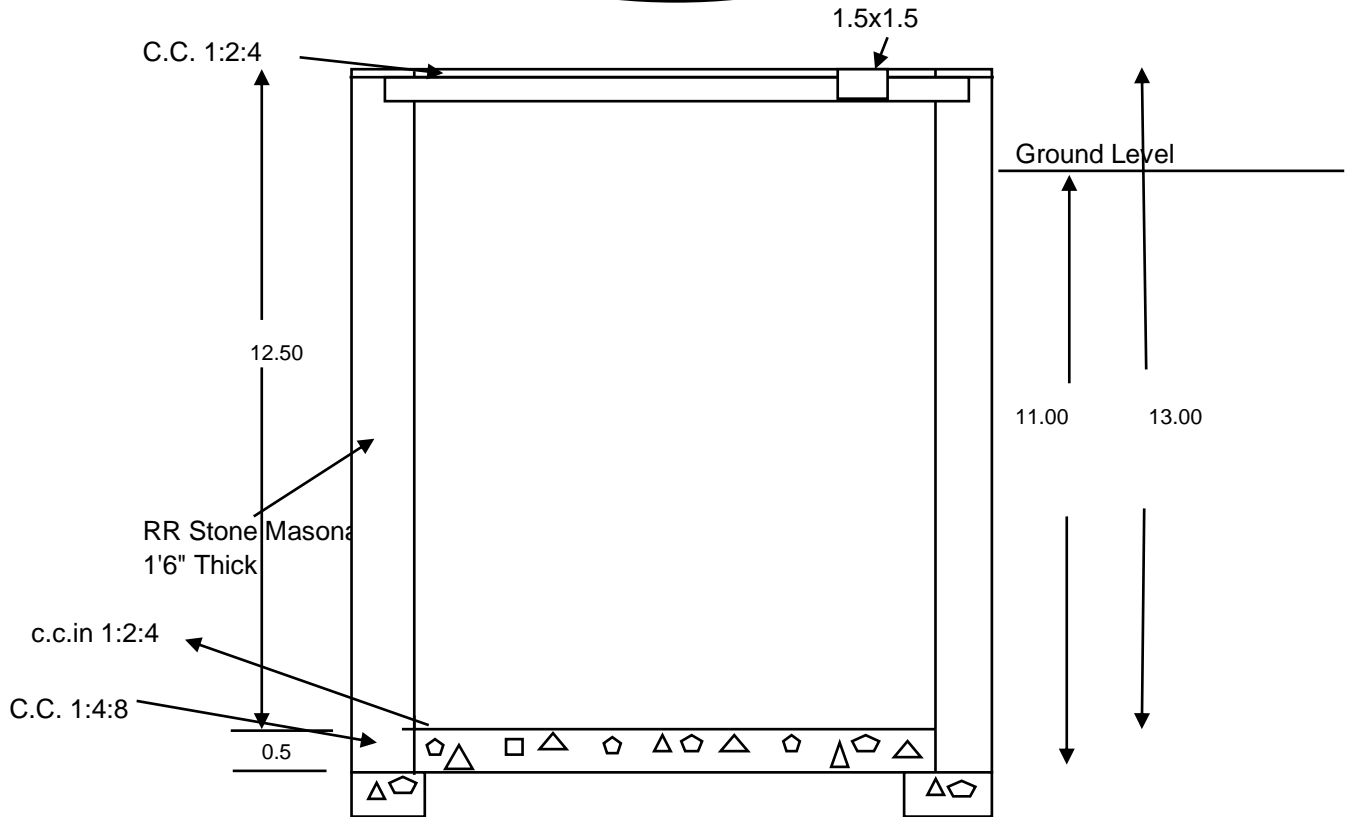
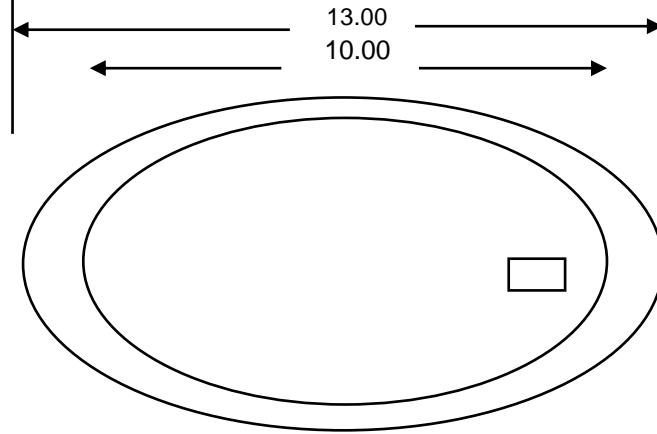
| | Quantity | Rate | Amount |
|-----------|----------|------|--------|
| Skilled | 46.00 | 400 | 18400 |
| Unskilled | 106.00 | 135 | 14310 |
| Water | | | 32710 |

28642.3 96176.607

| Amt. | | |
|-------------|---|-----------|
| Labour | A | 28642.329 |
| Material | B | 67534.278 |
| Total | C | 96176.607 |
| D=(C*0.04) | | 3847.0643 |
| Total (C+D) | | 100023.67 |

| S. no | Material required | Unit | Qty. | Rate | Amt. | |
|-------|-----------------------------|------|--------------|---------|---------|-------|
| 1 | Sand | cum. | 12.91 | 400 | 5165.2 | 5165 |
| 2 | 40mm aggregate | cum. | 1.82 | 425 | 772.65 | 772 |
| 3 | 20mm aggregate | cum. | 0.93 | 580 | 541.459 | 541 |
| 4 | Stone | cum. | 19.58 | 650 | 12727 | 12727 |
| 5 | Cement | bag | 54.0 | 260 | 14040 | 14040 |
| 6 | 15cm. Thick lintel | cum. | 0.28 | 2700 | 756 | 756 |
| 7 | Stone slab | sqm | 14.53 | 340 | 4940.88 | 4940 |
| 8 | Door | sqm. | 1.000 | | 500 | 500 |
| | Hand pump | Nos. | 1.0 | 1500.00 | 1500 | 1500 |
| | Water transportation | No. | 10.000 | 290.00 | 2900 | 2900 |
| | signe board and Photographa | | | | 500 | 500 |
| | | | | | 44343.2 | |
| | Stone chap | | 44.6 | 130 | 5801.41 | 5800 |
| | Supply of murram | | | | 7976.25 | 7976 |
| | | | Total | | 58120.9 | 58117 |

DRAWING OF TANKA



| नसाला 1.0 म (2.0+1.0)/2 | | | | 0.00 | | | | | | | | | |
|-------------------------|--|---|----|---------|---------|---------|---------|--------|---------|----------|----------|--------|---------|
| योग | | | | 1800.00 | 51.02 | घ.मी. | 236.30 | 628.30 | 1862.00 | 12056.12 | 32056.12 | 95000 | |
| 6 | 50 मी. मी. मोटाई में सीमेंट कंक्रीट 1:2:4 मिश्रण जिसमें 1 सीमेंट 2 बजरी 4 पत्थर की या ईट की 12 . मी. नाभीय गिट्टी के साथ मिलाकर डालना, कूटना, दबाना तथा तराई आदि समेत ।कोपिंग व फर्स | 1 | 30 | 40 | - | 1200.00 | | | | | | | |
| | | 2 | 30 | 1.5 | - | 90.00 | | | | | | | |
| | | 2 | 43 | 1.5 | - | 129.00 | | | | | | | |
| | | | | | | 0.00 | 0.00 | | | | | | |
| | | | | | | 0.00 | | | | | | | |
| | | | | | | योग | 1419.00 | 131.88 | घ.मी. | 31.10 | 91.10 | 191.00 | 4101.38 |
| 7 | मिट्टी का कार्य बन्ध मे (सूखी या गीली), 15 से.मी. परत मे डालना, ढेलों को तोड़ना, घास-पात तथा कंकर बीनकर अलग करना तथा मिट्टी की दरेसी करना, 1.5 मी उठान तथा 50 मी. दूरी के लिए। | 2 | 38 | 2.5 | 6 | 1140.00 | | | | | | | |
| | | 2 | 48 | 2.5 | 6 | 1440.00 | | | | | | | |
| | | | | | | 0.00 | | | | | | | |
| | | | | | | 0.00 | | | | | | | |
| | | | | | | 0.00 | | | | | | | |
| | | | | | | 0.00 | | | | | | | |
| | | | | योग | 2580.00 | 73.13 | घ.मी. | 73.70 | 75.80 | 77.00 | 5389.63 | 5543.2 | 5630.95 |

42282 84331 241247

अकुशल श्रम राशि

0.84 लाख

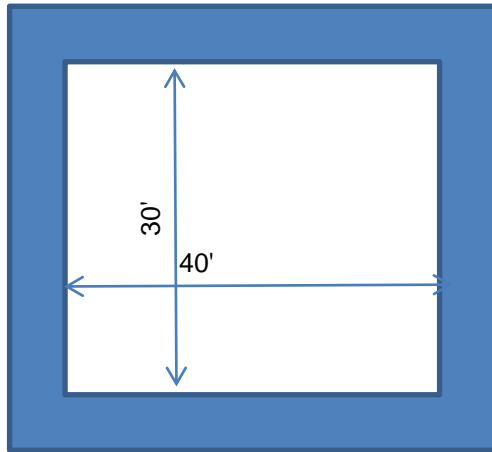
कुल योग 42282 84331 241247

**श्रम 33.47 %
सामग्री 66.53 %**

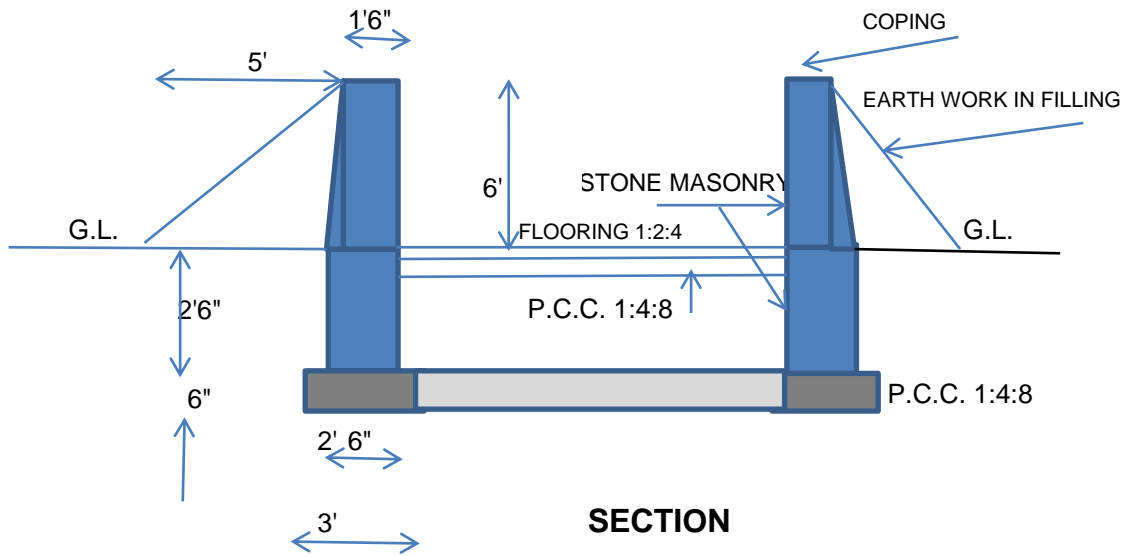
| | |
|----------------|-------------|
| श्रम | 0.84 |
| सामग्री | 1.67 |
| योग | 2.51 |

| राशि | | | |
|------------------------|----------|-----|---------------|
| श्रम | अकुशल | (a) | 42282 |
| | कुल श्रम | (b) | 84331 |
| सामग्री | | (c) | 156916 |
| कुल | (a+b+c) | (d) | 241247 |
| जोडे 4% contingency के | 4% of(d) | (e) | 9650 |
| कुल योग | (d+e) | (f) | 250897 |

CAPACITY :---- 2505965 लीटर



PLAN FOR HAUSE



SECTION

GULLY PLUGGING

DETAILED ESTIMATE AND ABSTRACT OF COST

Name Of Work: Construction Of Gully Plugging

| क्र.सं. | कार्य विवरण | मात्रा | दर | प्रति | राशि |
|---------|--|---|--------|-------|---------|
| 1 | बण्ड का ले आउट | 2x15=30.00 | 0.70 | Met. | 21.00 |
| 2 | जंगल की सफाई, साधारण वनस्पति तथा झाड़ियों को काटने सहित। | 15x5.10=76.50 | 1.40 | Sqm. | 107.10 |
| 4 | मिट्टी का कार्य बन्ध मे (सूखी या गीली), 15 से.मी. परत मे डालना, ढेलों को तोड़ना, घास-पात तथा कंकर बीनकर अलग करना तथा मिट्टी की दरेसी करना, 1.5 मी उठान तथा 50 मी. दूरी के लिए। कठोर मिट्टी | $2 \times \frac{5.10}{2} + 0.6 \times 1.50 \times 15 = 64.13$ | 100.00 | Cum. | 6413.00 |
| 5 | 15 से 23 से.मी. मोटे, हथोडे से तरासे हुए एकल पत्थर की पिचिंग समस्त उठान के साथ, आपूर्ति के साथ। | 15x2.10x0.23=7.24 | 670.00 | Cum. | 4850.80 |

TOTAL 11391.90

Add 4% Contigency 455.68

G. TOTAL 11847.58

Say Rs. 11850.00

(Rupees Ten Thousand Five Hundred only)

| | |
|------------|-----------------|
| Labour | 6803.00 |
| Material | 3570.00 |
| Contigency | <u>427.00</u> |
| Total | <u>10800.00</u> |

Note: Rate has been taken from the BSR issued by Zila Parishad Jodhpur on 1/4/2012.

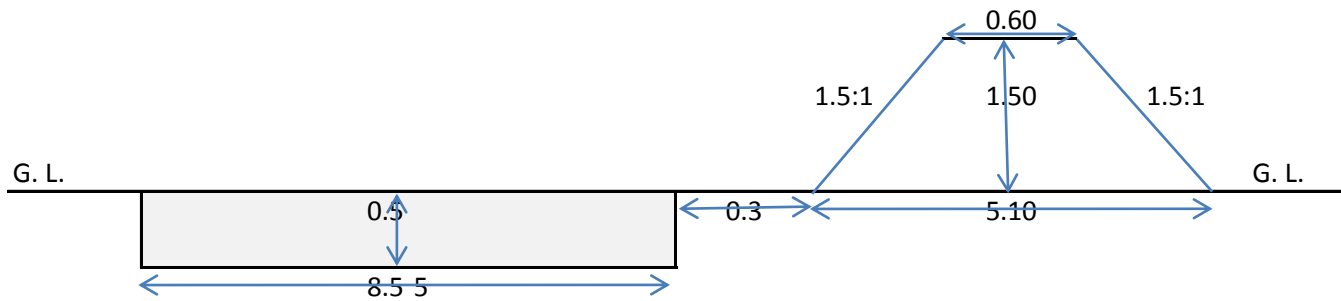
W. D. T. (Technical)
I. W. M. P.
P. S. Osian

A. En. & P. I. A.
I. W. M. P.
P. S. Osian

Scheme: IWMP
Watershed: Cherai (Jodhpur-25)

Panchayat Samiti: Osian
District: Jodhpur

Name Of Work: Construction Of Gully Plugging



X-Section Of Gully Plugging

All Dimensions are in Meter
Not in Scale

W. D. T. (Technical)
I. W. M. P.
P. S. Osian

A. En. & P. I. A.
I. W. M. P.
P. S. Osian

PASTURE DEVELOPMENT

DETAILED ESTIMATE AND ABSTRACT OF COST

Name Of Work: Pasture Development Works in Arable land

| क्र.सं. | कार्य विवरण | प्रति | मात्रा | दर | राशि |
|---------|--|-------|--------|--------|---------|
| 1 | सेवण/धामण घास का बीज एकत्रित/खरीद करना (7 किलो प्रति हेक्टेयर) | Kg. | 7 | 160.00 | 1120.00 |
| 2 | 7 किलो घास का बीज, खाद, रेत व चिकनी मिट्टी का मिश्रण 1:1:2:2 में बनाकर गोलिया तैयार करना (कुल सामग्री 42 किलो) | Kg. | 7 | 27.84 | 194.88 |
| 3 | फरोस पर ड्रिब्लिंग द्वारा घास बीज की गोलियां की बुवाई करना | Kg. | 7.00 | 135.00 | 945.00 |

TOTAL 2259.88

Add 4 % Contingency 90.40

G. TOTAL 2350.28

Say Rs. 2350.00

Per Hact..

Say Rs.=2350.00 per Hact.

(Rupees Two Thousand Three hundred Fifty only)

| | |
|--------------|----------------|
| Labour | 1369.00 |
| Material | 891.00 |
| Contingency | 90.40 |
| Total | 2350.40 |

Note: Rate has been taken from the BSR issued by Zila Parishad Jodhpur on 8/4/2012.

W. D. T. (Technical)
I. W. M. P.
P. S. Osian

A. En. & P. I. A.
I. W. M. P.
P. S. Osian

PLANTATION
DETAILED ESTIMATE AND ABSTRACT OF COST

Name Of Work: Plantation Works in Non Arable land
(A) Ist Year

| क्र.सं. | कार्य विवरण | प्रति | मात्रा | दर | राशि |
|---------|--|-------|----------------|---------------|--------------------|
| 1 | 45 x 45 x 45 सेमी माप के गड्डे करना कठोर मिट्टी कंकर/मुरम मिट्टी (बी.एस.आर. आइटम नं. 2 ब व स) | Nos. | 300 200 | 6.80 13.40 | 2040.00 2680.00 |
| 2 | पौधा रोपित करना (ब) सामान्य जमीन में पथरीली जमीन (बी.एस.आर. आइटम नं. 113 ब व स) | Nos. | 300 200 | 3.60 3.00 | 1080.00 600.00 |
| 3 | पौधों की निराई गुड़ाई करना 15 सेमी गहराई तक तथा 45 सेमी अर्द्धव्यास तक (बी.एस.आर. आइटम नं. 116) | Nos. | 2x500= 1000 | 1.20 | 1200.00 |
| 4 | पौधों को कीटनाशक देना मय कीटनाशक की कीमत (बाजार दर के अनुसार) | Nos. | 500.00 | 2.00 | 1000.00 |
| 5 | थांवला बनाना, कम से कम 50 सेमी अर्द्धव्यास का पथरीली जमीन अन्य जमीन (बी.एस.आर. आइटम नं. 117 अ व ब) | Nos. | 200 300 | 2.40 1.80 | 480.00 540.00 |
| 6 | पौधों को पानी पिलाना 15 लीटर प्रति पौधा (वर्ष में 12 बार) 500X6=3000 (बी.एस.आर. आइटम नं. 115) | Nos. | 6000.00 | 1.80 | 10800.00 |
| 7 | पौधे की लागत मय परिवहन (बाजार दर के अनुसार) | Nos. | 500.00 | 20.00 | 10000.00 |
| 8 | पौधों का परिवहन नर्सरी से वृक्षारोपण स्थल तक (लोडिंग व अनलोडिंग सहित) 1 कि.मी. ऊँट गाडी द्वारा | Nos. | 500.00 | 1.00 | 500.00 |
| 9 | पानी की लागत मय परिवहन 5 कि.मी. तक 15 ली X 3000 = 45000 ली. (बी.एस.आर. आइटम नं. 108) | Liter | 45000.00 | 42.2/1000 | 1899.00 |
| 10 | पाले व लू से बचाव हेतु झोंपे बनाना | Nos. | 100.00 | 3.62 | 362.00 |
| 11 | 100 पौधों के पुर्निर्ग करना (माडल एस्टीमेट वन विभाग) | Nos. | 100.00 | 0.96 | 96.00 |
| 12 | पौधों की देखभाल व सुरक्षा | Nos. | 500.00 | LS | 5300.00 |

TOTAL(A) 38557.00

DETAILED ESTIMATE AND ABSTRACT OF COST

Name Of Work: Plantation Works in Non Arable land

(B) IInd Year

| क्र.सं. | कार्य विवरण | प्रति | मात्रा | दर | राशि |
|-----------------|---|-------|---------|----------|-----------------|
| 1 | 100 पौधों का केजुयल्ली रिप्लेसमेंट करना | Nos. | 100.00 | 1.35 | 135.00 |
| 2 | पौधों की लागत मय परिवहन (बाजार दर के अनुसार) | Nos. | 100.00 | 20.00 | 2000.00 |
| 3 | पौधों का परिवहन नर्सरी से वृक्षरोपण स्थल तक (लोडिंग व अनलोडिंग सहित) | Nos. | 100.00 | 1.00 | 100.00 |
| 4 | पौधों की निराई गुड़ाई करना 15 सेमी गहराई तक तथा 45 सेमी अर्द्धव्यास तक 2X500=1000 (बी.एस.आर. आइटम नं. 116) | Nos. | 1000.00 | 1.20 | 1200.00 |
| 5 | पौधों को पानी पिलाना 15 लीटर प्रति पौधा (वर्ष में 6 बार) 500 X 3 =1500 (बी.एस.आर. आइटम नं. 115) | Nos. | 3000.00 | 1.80 | 5400.00 |
| 6 | पानी की लागत मय परिवहन 5 कि.मी. तक 15 ली X 1500 = 22500 yh- (बी.एस.आर. आइटम नं. 108) | Nos. | 22500.0 | 37.4/100 | 841.50 |
| 7 | 100 पौधों के लिए पाले/लू से सुरक्षा हेतु झोंपे बनाना | Nos. | 100.0 | 3.62 | 362.00 |
| 8 | 100 पौधों की पुर्निग करना | Nos. | 100.0 | 0.96 | 96.00 |
| 9 | पौधों की देखभाल व सुरक्षा | Nos. | 500.0 | LS | 5300.00 |
| TOTAL(B) | | | | | 15434.50 |

DETAILED ESTIMATE AND ABSTRACT OF COST

Name Of Work: Plantation Works in Non Arable land

(C) IIIrd Year

| क्र.सं. | कार्य विवरण | प्रति | मात्रा | दर | राशि |
|-----------------|---|-------|---------|----------|----------------|
| 1 | पौधों को पानी पिलाना 15 लीटर प्रति पौधा (वर्ष मे 2 बार) 500 X 2 =1000 (बी.एस.आर. आइटम नं. 115) | Nos. | 1000.00 | 1.80 | 1800.00 |
| 2 | पानी की लागत मय परिवहन 5 कि.मी. तक 15 ली X 1000 = 15000 vh- (बी.एस.आर. आइटम नं. 108) | Nos. | 15000.0 | 37.4/100 | 561.00 |
| 3 | पौधों की निराई गुडाई करना 15 सेमी गहराई तक तथा 45 सेमी अर्द्धव्यास तक 1X500=1000 (बी.एस.आर. आइटम नं. 116) | Nos. | 500.00 | 1.20 | 600.00 |
| 4 | 200 पौधों की पुर्निग करना | Nos. | 200.0 | 0.96 | 192.00 |
| 5 | पौधो की देखभाल व सुरक्षा | Nos. | 500.0 | LS | 5300.00 |
| TOTAL(C) | | | | | 8453.00 |

Scheme: IWMP

Watershed:Cherai (Jodhpur-56)

Panchayat Samiti: OSIAN

District: Jodhpur

DETAILED ESTIMATE AND ABSTRACT OF COST

Name Of Work: Plantation Works in Non Arable land

(D) IVth Year

| क्र.सं. | कार्य विवरण | प्रति | मात्रा | दर | राशि |
|-----------------|--------------------------|-------|--------|----|----------------|
| 1 | पौधो की देखभाल व सुरक्षा | Nos. | 500.0 | LS | 5300.00 |
| TOTAL(D) | | | | | 5300.00 |

Total Cost Per Ha. (A+B+C)=38457+15434.5+8453+5300=56229.50

| | |
|--------------------|-----------------|
| | 67744.50 |
| Add 4% Contingency | 2709.78 |
| G. TOTAL | 70454.28 |
| Say Rs. | 70500.00 |
| | Per Ha. |

(Rupees Forty Eight Thousand Five hundred only)

| | |
|------------|------------------------|
| Labour | 45500.00 |
| Material | 22290.00 |
| Contigency | <u>2710.00</u> |
| Total | <u>70500.00</u> |

Note: Rate has been taken from the BSR issued by Zila Parishad Jodhpur on 1/4/2012.

W. D. T. (Technical)

I. W. M. P.

P. S. OSIAN

A. En. & P. I. A.

I. W. M. P.

P. S. Osian

| | | | | | | | | | | | | | | | | | | | |
|---|---|--|------------------|---|--------|------|------|---------|---------|---------|-------|--------|---------|---------|---------|---------|--|--|--|
| | के नीव तथा कुर्सी में पत्थर की वे रद्धा-ढोका सीमेंट-बजरी 1 : 6 मसाले में, मय बगल की झिरी बन्द करना तथा तराई आदि। नीव तथा कुर्सी में, मय बगल की झिरी बन्द करना तथा तराई आदि। | | Building III st. | 1 | 110.5 | 1.5 | 1 | 165.75 | | | | | | | | | | | |
| | | | Building Iv st. | 1 | 110.5 | 1.25 | 1.5 | 207.188 | | | | | | | | | | | |
| | | | Compound wall | 1 | 147.25 | 1.5 | 1 | 220.875 | | | | | | | | | | | |
| | | | Ramp | 2 | 10 | 1.25 | 1.5 | 37.5 | | | | | | | | | | | |
| | | | U/G water Tank | 1 | 45 | 1.25 | 11 | 618.75 | | | | | | | | | | | |
| | | | Foder Pan | 1 | 25 | 1.25 | 1.25 | 39.0625 | | | | | | | | | | | |
| | | | Total | | | | | | | 1786.38 | 50.55 | cum. | 525.30 | 2019.00 | 26556.2 | 102069 | | | |
| 4 | पत्थर के दासे की आपूर्ति कर, चिनाई में उपयोग की गई मसाले में उसे लगाना। | | | 1 | 110.5 | 1.25 | 0.5 | 69.0625 | | | | | | | | | | | |
| | | | Total | | | | | | | 69.0625 | 1.95 | cum. | 1326.70 | 4304.00 | 2592.99 | 8412.03 | | | |
| 5 | अधिरचना में सीमेंट मसाला 1:6 में पत्थर की चुनाई का कार्य | | Building | 1 | 110.5 | 1.25 | 14 | 1933.75 | | | | | | | | | | | |
| | | | Compound wall | 1 | 127.25 | 1.25 | 4 | 636.25 | | | | | | | | | | | |
| | उप योग | | | | | | | 2570 | 72.73 | cum. | | | | | | | | | |
| | कटोटियां | | खिड़की | | 2 | 6 | 1.25 | 4 | 60 | | | | | | | | | | |
| | | | दरवाजा | | 1 | 4 | 1.25 | 7 | 35 | | | | | | | | | | |
| | | | वेन्ट | | 10 | 2 | 1.25 | 1 | 25 | | | | | | | | | | |
| | | | सामने का ओपनिंग | | 1 | 20 | 1.25 | 14 | 350 | | | | | | | | | | |
| | | | लिनटल | | 10 | 3 | 1.25 | 0.5 | 18.75 | | | | | | | | | | |
| | | | लिनटल | | 1 | 5 | 1.25 | 0.5 | 3.125 | | | | | | | | | | |
| | | | लिनटल | | 2 | 7 | 1.25 | 0.5 | 8.75 | | | | | | | | | | |
| | | | गेट | | 1 | 8 | 1.25 | 4 | 40 | | | | | | | | | | |
| | उप योग | | | | | | | | 540.625 | 15.30 | cum. | | | | | | | | |
| | शेष | | | | | | | | 2029.38 | 57.43 | cum. | 698.30 | 2195.00 | 40104.3 | 126062 | | | | |
| 6 | पत्थर के वर्गाकार या आयताकार खम्बों को चूना मसाले 1:3 में अधिरचना में। | | | 2 | 1.25 | 1.5 | 14 | 52.5 | | | | | | | | | | | |
| | | | Total | | | | | | | 52.5 | 1.49 | cum. | 1029.30 | 2608.00 | 1529.28 | 3874.84 | | | |

| | | | | | | | | | | | | | | |
|----|--|------|---------------|----|-------|-------|--------|---------|--------|---------|---------|---------|---------|--|
| 7 | पत्थर के सिरदल (लिटल) की आपूर्ति कर, चिनाई में उपयोग की गई मसाले में उसे लगाना। | | | | | | | | | | | | | |
| | | लिटल | 1 | 49 | 1.25 | 0.5 | 30.625 | | | | | | | |
| | | | 6 | 7 | 1 | 0.5 | 21 | | | | | | | |
| | | पाट | | | | | | | | | | | | |
| | | योग | | | Total | | 51.625 | 1.46 | cum. | 1326.70 | 4304.00 | 1938.29 | 6288.09 | |
| 8 | 40 मि.मी. मोटाई के पत्थर के छज्जे,सीमेंट मसाले में 1:4 में लगाना तथा आपूर्ति करना, दीवार तथा छज्जे के जोड़ पर सीमेंट काक्रीट 1:3:6 का 7.5 से.मी. का गोला बनाना, आदि। | | 7 | 3 | 1.25 | | 26.25 | | | | | | | |
| | | | 2 | 7 | 1.25 | | 17.5 | | | | | | | |
| | | | 1 | 5 | 1.25 | | 6.25 | | | | | | | |
| | | | Total | | 50 | 4.645 | sqm | 308.60 | 592.00 | 1433.45 | 2749.84 | | | |
| 9 | छत और दीवारों की जोड़ पर कातला पत्थर के गरदाना को लगाना एव आपूर्ति का पूर्ण कार्य | | 1 | 0 | 1.25 | 1 | 0 | | | | | | | |
| | | | | | | | 0 | | | | | | | |
| | | | Total | | 0 | 0 | Sqm | 488.60 | 735.00 | 0 | 0 | | | |
| 10 | लोहे के गर्डर | | 0 | 0 | 0.305 | 1 | 0 | | | | | | | |
| | 350*165@ 49.5Kg/m | | | | 0.305 | 1 | 0 | | | | | | | |
| | | | | | | | 0 | 0 | Kg | 3.60 | 58.20 | 0 | 0 | |
| | | | 2 | 22 | 0.305 | 1 | 13.41 | | | | | | | |
| | 300*140@ 37.7Kg/m | | | | 0.305 | 1 | 0 | | | | | | | |
| | | | | | | | 13.41 | 505.60 | Kg | 3.60 | 58.20 | 1820.17 | 29426.1 | |
| | | | 0 | 0 | 0.305 | 1 | 0 | | | | | | | |
| | | | | | 0.305 | 1 | 0 | | | | | | | |
| | | | | | | | 0 | 0 | Kg | 3.60 | 58.20 | 0 | 0 | |
| 11 | पत्थर की सिर्वान लगाने एव आपूर्ति का कार्य | | 0 | 0 | 0 | 0 | 0 | 0 | Sqm | 488.60 | 735.00 | 0 | 0 | |
| 12 | अप्रुव्ड खान की पट्टी की छत छत के दोनों के तरफ सिमेण्ट 1:4 से भरना | | Building | 1 | 32.75 | 22.5 | | 736.875 | | | | | | |
| | | | Compound wall | 1 | 12.5 | 12.5 | | 156.25 | | | | | | |
| | | 4 | तक | | | | | 0 | | | | | | |

| | | | | | | | | | | | | | |
|----|--|----------------|---|--------|------|-------|---------|-------|------|--------|---------|---------|---------|
| | | | | | | Total | 893.125 | 82.97 | Sqm | 299.70 | 825.00 | 24866.5 | 68451.3 |
| 13 | अधिरचना ईजारा में सीमेंट मसाला 1:6 में पत्थर की चिनाई कार्य। | | 2 | 32.75 | 1.25 | 1 | 81.875 | | | | | | |
| | | | 2 | 15 | 1.25 | 1 | 37.5 | | | | | | |
| | | | | | | Total | 119.375 | 3.38 | cum. | 775.50 | 2275.00 | 2619.88 | 7685.66 |
| 14 | 90 मि.मी. औसत मोटाई में सीमेंट कांक्रीट दड़ जिसमें 1 भाग सीमेंट : 3 भाग बजरी तथा 6 भाग 12 मि.मी. नामीय एग्रीगेट मिलाकर आर.सी.सी. छत या पट्टी पर इस प्रकार डालना कि चाही गई दिशा में ढलान 1:60 का प्राप्त किया जा सके तथा विशेष विवरण के अनुसार 6 मि.मी. व्यास की छड़ों को दोनो दिशा 25 से.मी. केन्द्र से केन्द्र जाल मध्य ककरीट में डाल कर ककरीट को दबाना तथा तराई समेत। | Building | 1 | 30.25 | 20 | | 605 | | | | | | |
| | | U/G water Tank | 1 | 12.5 | 12.5 | | 156.25 | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | Total | 761.25 | 70.72 | sqm. | 174.40 | 469.00 | 12333.6 | 33167.7 |
| 15 | फर्श के नीचे सुखे पत्थरो का खंरजा डालना। | | 0 | 20 | 15 | 0.5 | 0 | | | | | | |
| | | | 1 | 9 | 22.5 | 0.5 | 101.25 | | | | | | |
| | | | 1 | 32.75 | 10 | 0.5 | 163.75 | | | | | | |
| | | | | | | Total | 265 | 7.50 | cum. | 179.10 | 677.00 | 1343.16 | 5077.16 |
| 16 | 50 मी. मी. मोटाई में सीमेंट कंक्रीट 1:2:4 मिश्रण 12 मी.मी. गिट्टी के साथ मिलाकर डालना, कूटना, दबाना तथा तराई आदि समेत मय कांच पती | Fodder Pan | 0 | 25 | 1.25 | | 0 | | | | | | |
| | | Fodder Room | 1 | 9 | 22.5 | | 202.5 | | | | | | |
| | | U/G water Tank | 1 | 10 | 10 | | 100 | | | | | | |
| | | | | | | Total | 202.5 | 18.81 | sqm. | 101.30 | 230.00 | 1905.68 | 4326.82 |
| 17 | कोपिंग का कार्य C:C (1:2:4) Chap | | | | | | | | | | | | |
| | | | 1 | 262.75 | 1.25 | | 328.438 | 30.51 | sqm. | 101.30 | 230.00 | 3090.85 | 7017.72 |
| | | | 0 | 0 | 0 | | 0 | 0 | sqm. | 488.60 | 826.00 | 0 | 0 |
| 18 | आलमारी में चापो का कार्य ¼pkjk Bk.k ds fy | Fodder Pan | 1 | 25 | 1.25 | 0 | 31.25 | | | | | | |
| | | | | | | | 0 | | | | | | |
| | | | | | | Total | 31.25 | 2.90 | sqm. | 164.40 | 370.00 | 477.274 | 1074.16 |
| 19 | सीमेंट प्लास्टर दीवार पर 1:6 अनुपात में सीमेंट-बजरी मिलाकर कर जोड़ों को करेदने तथा | Fodder Room | 2 | 15 | 14 | | 420 | | | | | | |

| | | | | | | | | | | | | | | |
|--------------------------|---|--------|----------------|---|--------|----|---|---------|--------|------|--------|--------|---------|---------|
| तराई सहित 20 मि.मी. में। | | | Fodder Room | 2 | 9 | 14 | | 252 | | | | | | |
| | | | Fodder Pan | 1 | 25 | 3 | | 75 | | | | | | |
| | | | | | | | | 672 | 62.43 | sqm. | | | | |
| कटोटियां | | खिड़की | | 0 | 0 | 0 | 0 | 0 | | | | | | |
| | | दरवाजा | | 1 | 4 | 7 | | 28 | | | | | | |
| | | वेन्ट | | 0 | 2 | 1 | 1 | 0 | | | | | | |
| उप योग | | | | | | | | 28 | 2.60 | sqm. | | | | |
| शेष | | | | | | | | 644 | 59.83 | sqm. | 86.40 | 147.00 | 5169.1 | 8794.66 |
| 20 | पत्थर की चुनाई पर सीमेण्ट मसाला 1:3 से टीपो का कार्य | | Building | 1 | 20 | 14 | | 280 | | | | | | |
| | | | Building | 1 | 32.75 | 14 | | 458.5 | | | | | | |
| | | | Building | 4 | 18 | 14 | | 1008 | | | | | | |
| | | | Perapet | 2 | 95.5 | 2 | | 382 | | | | | | |
| | | | Compound wall | 1 | 167.25 | 5 | | 836.25 | | | | | | |
| | | | Building Front | 2 | 26.5 | 14 | | 742 | | | | | | |
| | | | | | | | | 3706.75 | 344.36 | sqm. | | | | |
| कटोटियां | | खिड़की | | 1 | 6 | 4 | | 24 | | | | | | |
| | | दरवाजा | | 1 | 4 | 7 | | 28 | | | | | | |
| | | वेन्ट | | 7 | 2 | 1 | | 14 | | | | | | |
| उप योग | | | | | | | | 66 | 6.13 | sqm. | | | | |
| शेष | | | | | | | | 3640.75 | 338.23 | sqm. | 51.10 | 62.00 | 17283.3 | 20970 |
| 21 | रदा कतार ढोका चुनाई का अतिरिक्त | | | 1 | 1719.0 | | | 1719 | 159.70 | sqm. | 123.00 | 123.00 | 19642.5 | 19642.5 |
| 22 | 22 गेज की सादा एम.एस. चद्वर की बनी 0.9 मी. चौड़ी तथा 1.2 मी. ऊंची खिड़की जिसमें समस्त चौखट फ्रेम 25X25X3 मि.मी. की कोनिया लोहे का, 10 मि.मी. ग्रिल मय अर्गल, चिटकनियां 2 नग तथा पट्टियां 4 नग आपूर्ति करना। | | | 2 | 6 | 4 | | 48 | | | | | | |
| | | | | 0 | 0 | 0 | | 0 | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | 0 | | | | | | |

| | | | | | | | | | | | | | | |
|----|---|---|------------------|---|---------|-------|---------|--------|------|---------|-------|---------|---------|--|
| | 1 | 0 | | | | Total | 48 | 4.46 | sqm | 149 | 1762 | 665.759 | 7857.11 | |
| 23 | 22 गेज की सादा एम. एस. चद्वर के दो पल्ले वाले दरवाजे, जिसमें लोहे की 40x40x3 मि.मी. के कोनिया लोहे की चौरवट तथा पल्लो में 25x25x3 मि.मी. के कोनिया लोहे; ;।दहसम प्तवदद्ध के किनारे मय अर्गल चिटकनी तथा पकड़ पट्टियों के आपूर्ति व लगान। | | Fodder Room | 1 | 4 | 7 | 28 | | | | | | | |
| | | | Compound wall | 1 | 8 | 4 | 32 | | | | | | | |
| | | | U/G water Tank | 1 | 2 | 2 | 4 | | | | | | | |
| | | | | | | | | | | | | | | |
| | 1 | 0 | | | | Total | 64 | 5.95 | sqm | 149 | 1417 | 887.678 | 8424.92 | |
| 24 | नए कार्य पर सफेदी का कार्य | | | 1 | 4350.75 | | 4350.75 | 404.18 | sqm. | 7.90 | 9.50 | 3193.06 | 3839.75 | |
| 25 | नये कार्य पर इनामिल पेन्ट का लेप करना | | | 2 | 112 | | 224 | 20.81 | sqm. | 32.20 | 73.00 | 670.069 | 1519.1 | |
| 26 | वर्षाती नाले के लिए 100 मि.मी. एस्वेस्टस सीमेंट के पाईप मय पकड़ पट्टी तथा जोड़ने मे सीमेंट मसाला 1:2 का भरना। | | Water Harwesting | 1 | 30 | | 30 | | | | | | | |
| | | | | | | | 0 | | | | | | | |
| | | | | | | | 30 | 9.144 | mts | 22.30 | 59.00 | 203.911 | 539.496 | |
| 27 | हेण्ड पम्प | | U/G Water Tank | 1 | | 1 | 1 | Each | 0.00 | 2000.00 | 0.00 | 2000.0 | | |

182708 508260

| | Quantity | Rate | Amount |
|------------------|----------|------|--------|
| Skilled labour | 255.97 | 400 | 102389 |
| Unskilled labour | 433.16 | 135 | 58476 |
| Mate | 3.98 | 145 | 577 |
| | | | 161442 |

| राशि | | |
|---------|---|--------|
| श्रम | A | 182708 |
| सामग्री | B | 325553 |
| कुल | C | 508260 |

| | | |
|------------------------------|-------|---------|
| Add 2% for conti. D=(C*0.02) | | 10165.2 |
| कुल योग | (C+D) | 518426 |

Say **518426**

| क्र.सं. | सामग्री आवश्यकता | ईकाई | मात्रा | दर | राशि | बजि |
|---------|---|----------|--------|------|----------|-------|
| 1 | चूना | कि.ग्रा. | FALSE | 2.5 | 0.00 | |
| 2 | रेत/बजरी | घ.मी. | 55.03 | 400 | 22010.07 | 1944 |
| 3 | गिट्टी पत्थर की 40 मि.मी. नामीय माप की | घ.मी. | 11.1 | 425 | 4720.40 | 392.5 |
| 4 | गिट्टी पत्थर की 20 मि.मी. नामीय माप की | घ.मी. | 4.91 | 580 | 2847.24 | 173.5 |
| 5 | पत्थर | घ.मी. | 124.1 | 650 | 80687.60 | 4386 |
| 6 | सीमेन्ट | कि.ग्रा. | FALSE | 260 | 0.00 | 0 |
| 7 | पत्थर के सिरदल 15 से.मी. मोटाई तक | घ.मी. | 3.6 | 2700 | 9682.82 | 126.7 |
| 8 | पत्थर के रफ ड्रेस्ड गरदाना 75 मि.मी. मोटे | व.मी. | 0.0 | 130 | 0.00 | 0 |
| 9 | लोह के गर्डर | कि.ग्रा. | 505.6 | 48 | 24268.91 | |
| 10 | पत्थर की पट्टियां | व.मी. | 91.3 | 350 | 31943.96 | 982.4 |
| 11 | सोलिंग/खंरजा पत्थर | घ.मी. | 8.2 | 425 | 3506.02 | 291.5 |
| 12 | रफ कोटा स्टोन | व.मी. | 20.7 | 170 | 3517.89 | 222.8 |
| 13 | फेक्ट्री में बनी खिडकिया | sqm | 4.5 | 1613 | 7191.35 | 157.6 |
| 14 | फेक्ट्री में बने दरवाजे | sqm | 5.9 | 1268 | 7537.24 | 1 |
| 15 | इनेमल पेन्ट | कि.ग्रा. | 3.1 | 170 | 530.6448 | |
| 16 | पत्थर की चापे | व.मी. | 9.1 | 130 | 1188.83 | 98.44 |
| 17 | मार्बल चिप्स | कि.ग्रा. | 0.0 | | 0 | |

| | | | | | | | |
|----|------------------------------|--|------------|-----|----|----------|----|
| 18 | ए. सी. पाइप 100 मि. मी व्यास | | प्रति मीटर | 9.1 | 22 | 201.168 | 30 |
| | | | | | | 199834.1 | |
| | पानी | | | | | 125718.5 | |
| | अन्य | | | | | 10165.21 | |
| | | | कुल योग | | | 335717.9 | |

MODEL ESTIMATE FOR ANIMAL HEALTH CAMP

In western Rajasthan due to lack of rainfall the climate is very drastic. Due to which the live stock of western Rajasthan face many problems related to their feed & to maintain their body immunity against climate. Due to which they can face many types of disease due to unfavorable climate condition and mostly by the owner who can use the animals till the animal can give milk after that he can not take care of the animals. Due to this many types of diseases like parasitic diseases it may be inner or outer, milk fever, Mastitis, Mange, tympany, Diarrhea, fever, Infertility, Pyometra, Indigestion, FMD, HS, BQ, ETV, etc. are many types of diseases which the animal can generally face due to which owner can face double loss first loss of money on treatment & on effect on animal production. For this in IWMP scheme the animal health camp can be organized in the villages which come under this scheme. For this one or two camps at Rs. 15,000/- each is organized. Before this first the information of the camp date can be informed to the villagers by various means like posters, banner, ghosti & various other means. After the camp can be organized in which free medicine can be distributed.

Besides that for the seasonal diseases & many other diseases which can be controlled through vaccination the vaccination camp can also be organized in which vaccine for various controlled diseases like FMD, HD & BQ, ETV, Sheep pox, PPR etc. animals can be vaccinated yearly or half yearly.

| | | | |
|------------------|-----------------------------|---|-----------------|
| Per camp cost :- | Medicine | = | 21500.00 |
| | Rent of Jeep (for two days) | = | 1500.00 |
| | Govt. Doctor or Staff | = | 1000.00 |
| | Total = | | 24000.00 |

- **General Medicine:-**

- o Antibiotic :-
 - inj. - OTC - 100 ml.
 - inj. - Enrocin - 100 ml.
- o Ointment :-
 - ont. - Loroxine - 100 gm.
 - ont. - Vetmox - 50 gm.
- o Cottons :- 100 gm.

- Instruments :-

- Catha tor
 - Trokar Canvla
 - Forseps
 - Teat Syphin
 - o Bandage :- 6"
 - o Syringe :- 50 ml.
 - o Needle :- 16"
 - o Mineral Mixture :- pow. = Calfos Ao3 = 1 Kg.
 - o Vitamin :- inj. = Vitasef

- **Primary Treatment**

- o P.P :- 100 gm. (5)
- o Mag sulph :- 101 gm. (20)
- o Soda by Carb :- 102 gm. (20)
- o T.T. Oil :- 100 ml (3)
- o Liq :- Notaodom (3)
- o Bolus :- Feedone/Rumtrion

- **Milk Fever** :- inj. - omifex - 450 ml.
CBG - 1000 ml

- **Mastitis** :- Tub. - Penclastin & H - Z gm

- **Mange** :- inj. - avil 100 ml.
inj. - Dexona/ 100 ml.

- **Tympany** :- Liq. - Afanil - 100 ml.
Bolus - Boost nix
Bolus - Ruwi nox

- **Dishorria** :- Bolus - Botrim
Bolus - SDM
inj. - BiOtin 3

Model Estimate of Tool Kit

Household Production System (for Marginal farmer and Land less labour)

Service sector- Tool Kit Specification Trade wise Detail of tools requirement in one set

1. One set of carpentry tools

COST Rs. 4000/= per Kit

| S.No. | Name of tools | Specfication | Quantity |
|-------|---|-------------------------------|----------|
| 1 | Hand saw | Size 15" | 1 No. |
| 2 | Hand saw | Size 12" | 1 No. |
| 3 | Screw driver | Size 8" x 25 mm | 1 No. |
| 4 | Combination pliers | Size 8" Make - Taparia | 1 No. |
| 5 | Charsi with handle | Size 25 mm | 1 No. |
| 6 | Charsi with handle | Size 18 mm | 1 No. |
| 7 | Charsi with handle | Size 10 mm | 1 No. |
| 8 | Wooden Randda | Big - Made of Sagwan | 1 No. |
| 9 | Wooden Randda | Small - Made of Sagwan | 1 No. |
| 10 | File half round | Make JK | 1 No. |
| 11 | File regular | Make JK | 1 No. |
| 12 | Tee bar carpenter frame(sikanja) for wooden | Size 4' x 2" | 1 No. |
| 13 | Stone silly | size 6" - ISI Mark | 1 No. |
| 14 | Basola with handle | Weight 800 gram | 1 No. |
| 15 | Ball peen hammer | Weight 300 gram -Make Ambica | 1 No. |
| 16 | Cross peen hammer | Weight 500 gram -Make Ambica | 1 No. |
| 17 | Measurement tape | Size 10 feet- Make freeman | 1 No. |
| 18 | Pincer | Size 200 mm | 1 No. |
| 19 | Girmt | Size 1/2" | 1 No. |
| 20 | Tri Square | Size 8" | 1 No. |
| 21 | Hand operated drill | Size 1/4" | 1 No. |
| 22 | Steel box for Tools | Size (22" x 11")- G.I. sheet | 1 No. |

2. One set of Mason tools

COST Rs. 2000/= per Kit

| S.No. | Name of tools | Specfication | Quantity |
|-------|-----------------------------|-----------------------------|----------|
| 1 | Karni | Size - Big | 1 No. |
| 2 | Karni | Size - small | 1 No. |
| 3 | Mashtar wooden | Size 36" Made of Sagwan | 1 No. |
| 4 | Mashtar wooden | Size 24" Made of Sagwan | 1 No. |
| 5 | Mashtar wooden | Size 15" Made of Sagwan | 1 No. |
| 6 | Gurmala | | 1 No. |
| 7 | Soot | | 1 No. |
| 8 | Sabble | Heavy iron | 1 No. |
| 9 | L shape measurement (Gunia) | | 1 No. |
| 10 | Level pipe (25 Foot) | 5 mm | 1 No. |
| 11 | Chiesal | Size 6" , 8" Make - Taparia | 1 No. |
| 12 | Ball pine hammer | Weight 500 gm Make - Ambica | 1 No. |
| 13 | Cross pine hammer | Weight 300 gm Make - Ambica | 1 No. |
| 14 | Aluminium rib | Size 60" x 4" x 1.5" | 1 No. |
| 15 | Measurement Tape | Size 10 feet Make freemans | 1 No. |
| 16 | Canvas bag for above tools | Made of Heavy canvas | 1 No. |

3. One set of Pottery tools

COST Rs. 12000/= per Kit

| S.No. | Name of tools | Specfication | Quantity |
|-------|--------------------------|---|----------|
| 1 | Clay lump beating hammer | MS pat. Size - D100 - 120mm X T5-6 mm with iron pipe handle | 1 No. |
| 2 | Wooden hammer (Thapa) | Sheesam Woodv . Size - D6-7" X T1.25".handle-L6" | 1 No. |
| 3 | Tasla | MS sheet. Size - 15", SWG-20 | 1 No. |
| 4 | Spade (Phawda) | MS sheet. Size - L 10"x w10", SWG-20.fitted with wooden Handle | 1 No. |
| 5 | Kamdai | Wooden Size - 2"x1-1.25" approx. Arch shap | 1 No. |
| 6 | Pindi Cement | Varius Size | 3 No. |
| 7 | Decoration tools | MS (Banki, Sua, Piyali, Patti) | 8 No. |
| 8 | Decoration Wheel | Size-H 16" x D 12-15". Tripod Structure. Fittedv withb double Ball Bearing.Iron sheet 5mm | 1 No. |
| 9 | Manual Potter Wheel | Outer Dia-inner Plate size- D 300mm x T-20mm. T-WT-17 Kg minimum(Cast iron body). Tripod Casted iron Structure with Ball bearing . 2 nos. of outer rings made of T or steal of 12mm Dia. Cross Wooden Support Structure | 1 No. |

4. One set of Footwear (Mojari) tools**COST Rs. 12000/= per Kit**

| S.No. | Name of tools | Specification | Quantity |
|-------|---------------------------|--|-----------------|
| 1 | Ball pine hammer | Drop forged steel ,Induction hardened, Seasoned wood handle,WT-300 gms with wood handle, Nilon hammer(L 240mm, head size L80xD300mm) | 1 No. |
| 2 | Wooden Block | Size- 18"x W4"xT4" | 1 No. |
| 3 | Pincer | Size- 8" | 1 No. |
| 4 | Scissors | Size- 9", Steel Body, Brass Handle | 1 No. |
| 5 | Bodam/Shoeanvil | Graded CI with 3 phases,WT-4 kg. | 1 No. |
| 6 | Cutting Blade Set (Ramp) | Steel with Wooden Handle, Size-L 150x W 30x T 6mm | 1 set |
| 7 | Stitching Awl | Steel with Sheesam Wood Handle. | 1 No. |
| 8 | Sharpening Stone | Size 150x50x25mm,109 no. | 1 No. |
| 9 | Shoe measuring Tape | Size-2' fibre/good quality plastic material | 1 No. |
| 10 | Lock Punch Set | Steel | 1 No. |
| 11 | Bye let setting tool | Steel | 1 No. |
| 12 | Round whole punch set | Steel, Size- L 100 Range-1 to 10 | 1 set (10 pcs.) |
| 13 | Design punch set | En-9 steel, Size- L100 | 1 set (3 |
| 14 | Zig zag Steel Scissors | Steel, Size- 8 1/2". Grooves on cutting edge. | 1 No. |
| 15 | Pattern cutting Knife | Steel, Size-6" | 1 No. |
| 16 | PP Block | Size-L 6"x W 6" T 20mm | 1 No. |
| 17 | Steel Scale | Size - 12" and 24". | 1 No. |
| 18 | Leather Scraping Brush | Size-8" with wooden Handle | 1 No. |
| 19 | Adhesive Brush | Size-10 mm,12mm, 25mm. | 1 No. |
| 20 | Spring Driver | Steel -Size 9" | 1 No. |
| 21 | Sant | Steel - H 6" WT-1 kg. | 1 No. |
| 22 | Sizeore Passing | Steel -Size 8" | 1 No. |
| 23 | Thread cutter | Steel with plastic Handle, Size-L 100 mm. | 1 No. |
| 24 | Number sety | Steel | 1 set (10 pcs.) |
| 25 | Capsol Punch | Size (8-10-12-16) | 1 set |
| 26 | Brush | Size-10 mm,12mm, 25mm. | 1 No. |
| | Machine Tools | | |
| 27 | HD Flat Bad Swing Machine | 31 K. Branded Company | 1 No. |

5.One set of Blacksmith Tools**COST Rs. 6000/= per Kit**

| S.No. | Name of tools | Specfication | Quantity |
|--------------|-----------------------------------|----------------------------|-----------------|
| 1 | Big Hammer | Ghon-5 kg | 1 No. |
| 2 | Hammer | Ghon-1 kg | 1 No. |
| 3 | Hammer | Ghon- 1/2 kg | 1 No. |
| 4 | Anvil - chouka | Ghon-10 kg | 1 No. |
| 5 | Chisrl-3Nos | Ghon-1 kg, 500 kg.,750 kg. | 1 No. |
| 6 | Measurement Tape | 3 MTR | 1 No. |
| 7 | Triangle | 6" | 1 No. |
| 8 | plie Taparia | 8" | 1 No. |
| 9 | Screw driver Taparia | 10" | 1 No. |
| 10 | Tin | 10" | 1 No. |
| 11 | Hand operated electric hand drill | - | 1 No. |
| 12 | Sansasi-flat and round | - | 1 No. |
| 13 | Table Vice | - | 1 No. |
| 14 | Haksa Frame Poland type | - | 1 No. |

5.One set of Blacksmith Tools**COST Rs. 6000/= per Kit**

| S.No. | Name of tools | Specfication | Quantity |
|--------------|---------------------------------|---------------------|-----------------|
| 1 | Hammer | 500 gm | 1 No. |
| 2 | Hammer | 1 kg | 1 No. |
| 3 | Plies Taparia | 8" | 1 No. |
| 4 | Screw driver Taparia | 6"-8"-12" | 1 No. |
| 5 | Pincer - 6" | 6" | 1 No. |
| 6 | Nose plier-6" | 6" | 1 No. |
| 7 | Alignment equipment cycle wheel | | 1 No. |
| 8 | Anivil-Chowka | 5 kg. | 1 No. |
| 9 | Screw wrench | 10" | 1 No. |
| 10 | Hexa Frame poloud type | | 1 No. |
| 11 | Spanner Set fix type 8 pcs | 8 pcs | 1 No. |
| 12 | Electric hand drill machine | | 1 No. |
| 13 | Hand Skipper | 10" | 1 No. |
| 14 | Solution | | |
| 15 | Water Pump Plier | | 1 No. |
| 16 | Punch | 6" | 1 No. |
| 17 | Hand Scissors | 8" | 1 No. |
| 18 | Oil cane | 250 gm | 1 No. |

CHAPTER - VIII Enclosures -

- 8.1 a.Location –District, block, village, watershed location map
- b.Cherai IWMP Project (Watershed Boundary demarcation in cadastral & Topo Sheet)
- c.PRA Map (along with photos & paper drawing)
- d.Treatment map (Indicate proposed works)
- e.Cadastral Map on watershed boundary
- f.Land Use Land Cover map
- g.Information on existing water harvesting structures & well inventory along with GPS co-ordinates.
- h.High resolution, latest Remote Sensing Satellite data

8.2 Documents of Agreements:

Proceedings of gram sabha for EPA approval

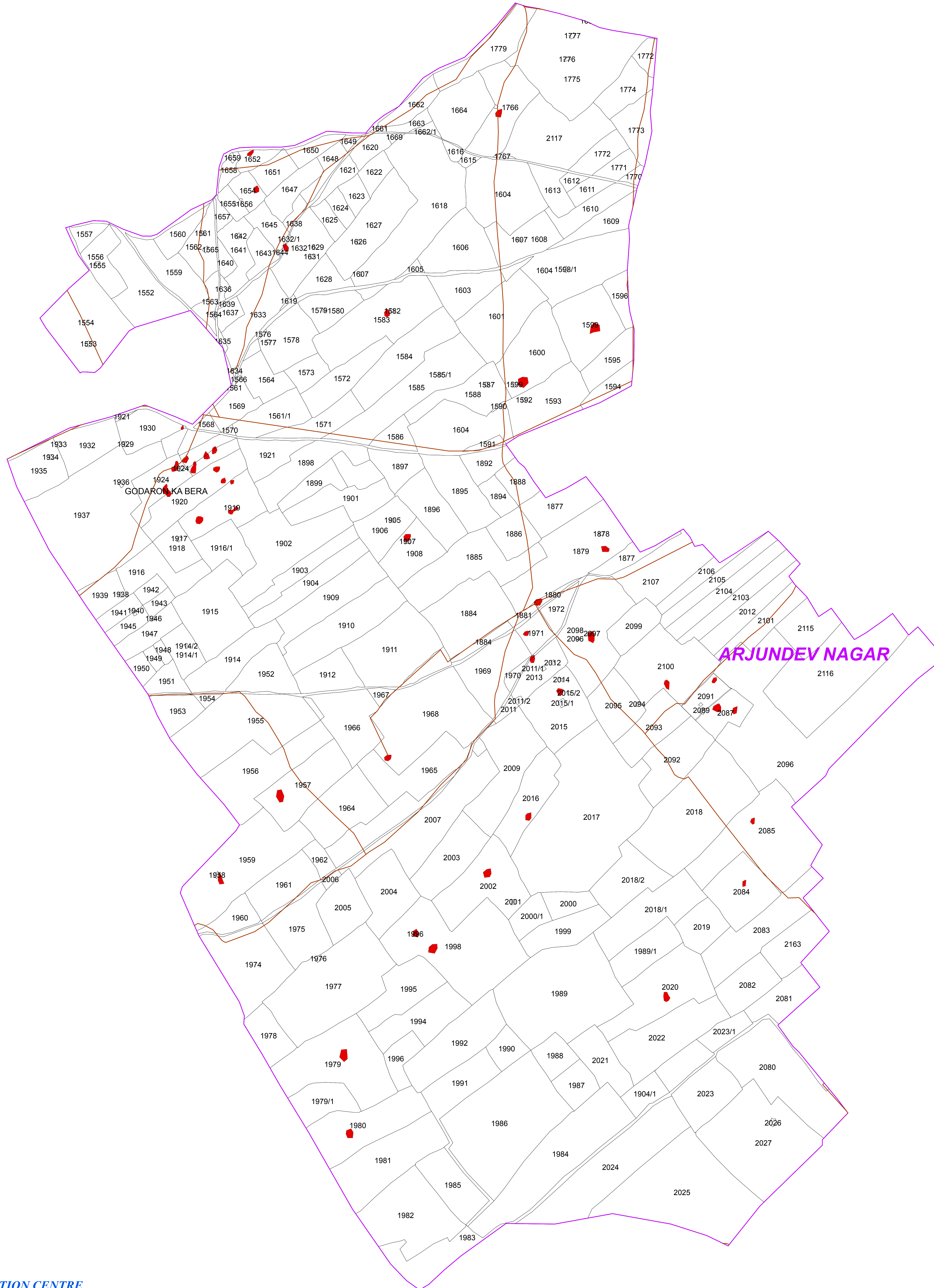
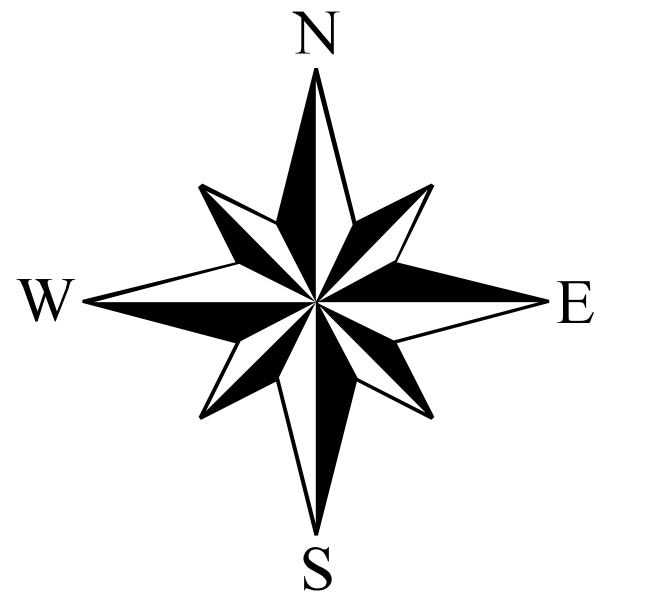
Proceedings of gram sabha Resolution for committee constitution

Proceedings of gram sabha for DPR approval

DPR approval by district

.

GEOREFERENCED KHASRA MAP
VILLAGE- ARJUNDEV NAGAR, WATERSHED - CHERAI (IWMP)
PANCHAYAT SAMITI - OSIAN
DISTRICT- JODHPUR



Legend

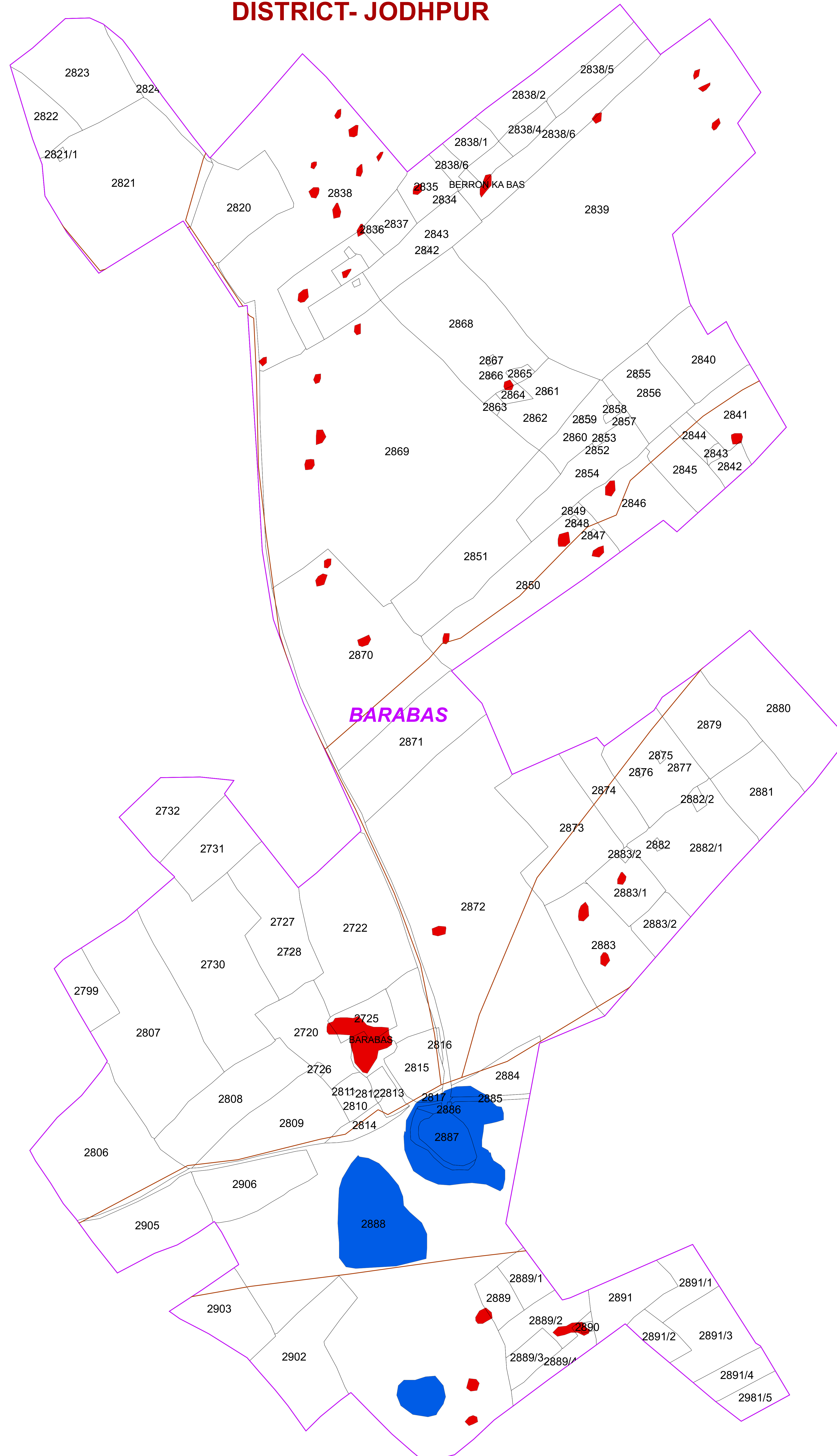
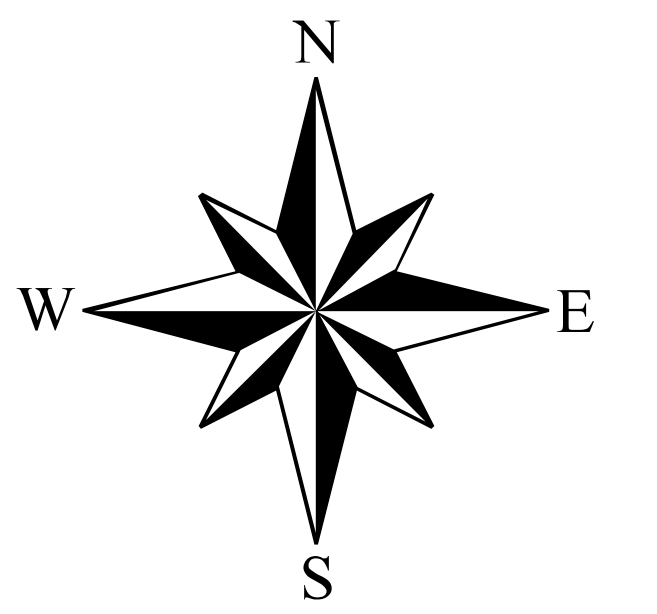
- ROAD
- VILLAGE
- KHASRA BOUNDARY
- RIVER/ WATERBODY
- SETTLEMENT
- WATERSHED OUTER

GEOREFERENCED KHASRA MAP

VILLAGE- BARABAS, WATERSHED - CHERAI (IWMP)

PANCHAYAT SAMITI - OSIAN

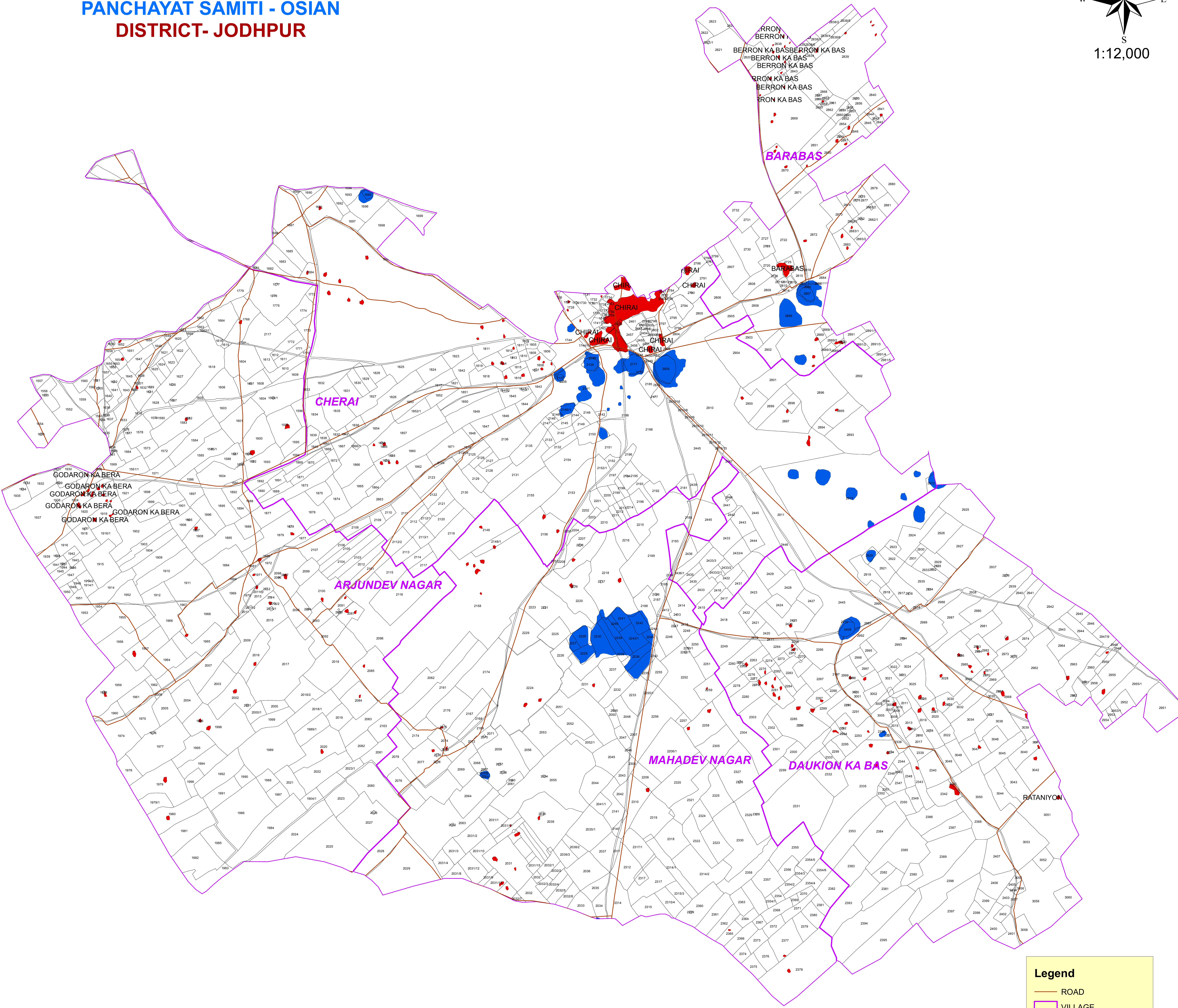
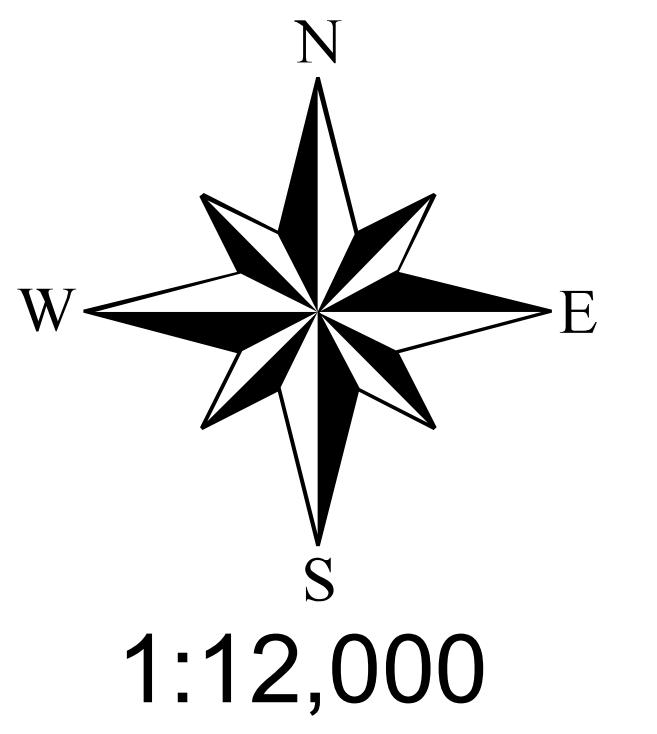
DISTRICT- JODHPUR



Legend

- ROAD
- VILLAGE
- KHASRA BOUNDARY
- RIVER/ WATERBODY
- SETTLEMENT
- WATERSHED OUTER

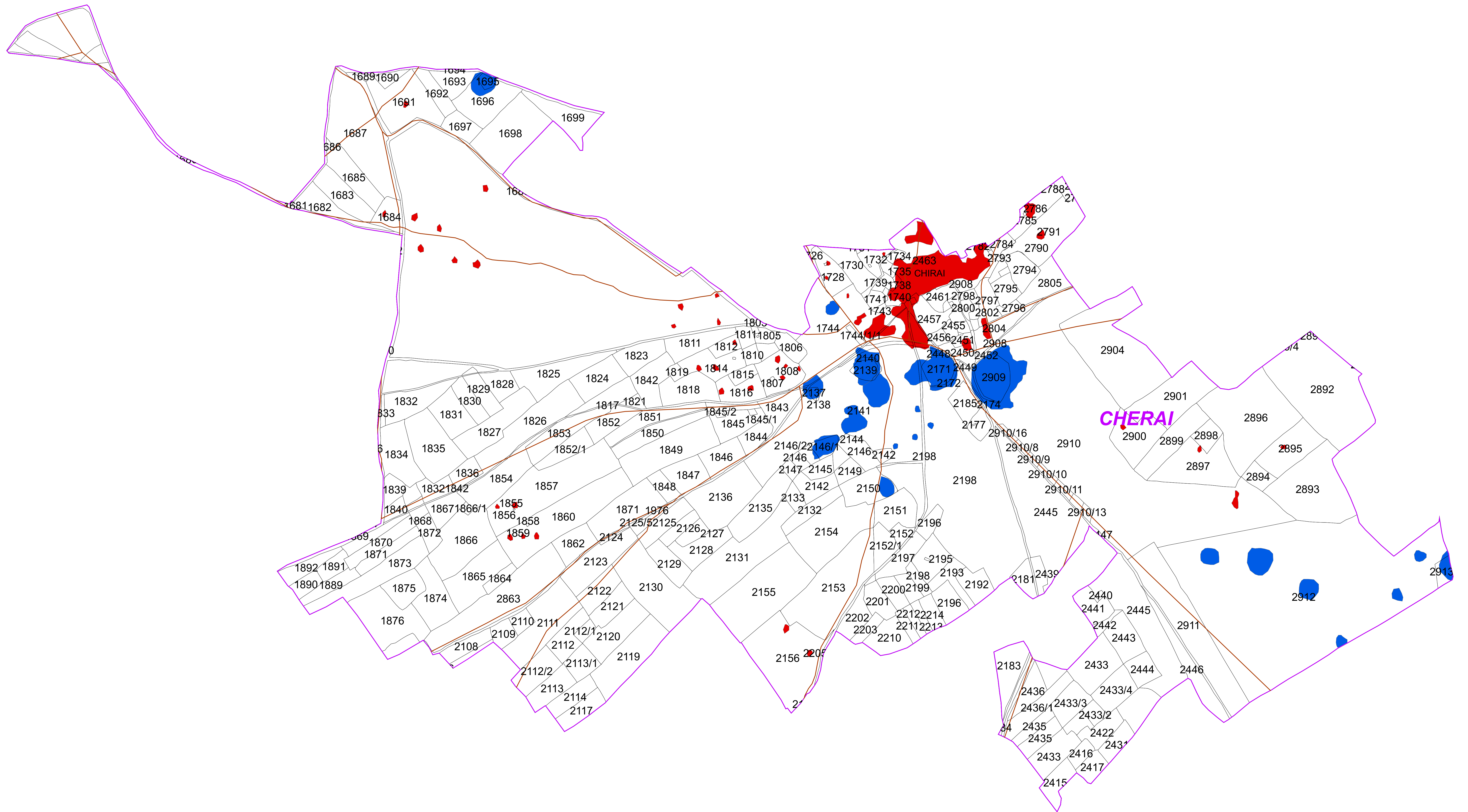
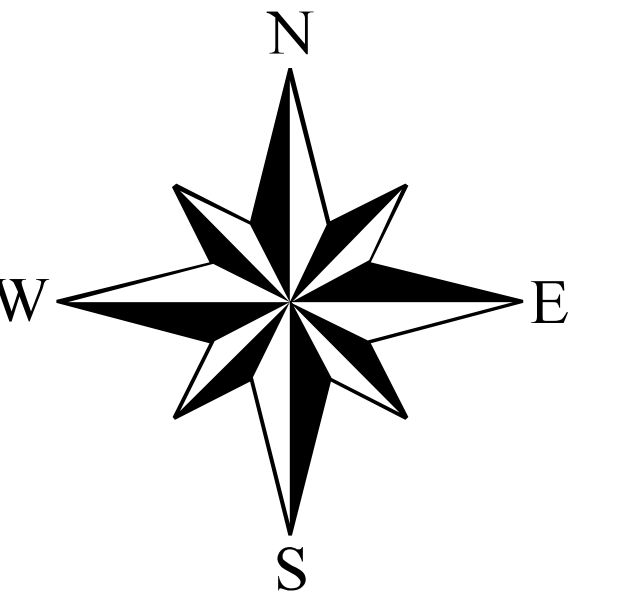
GEOREFERENCED KHASRA MAP
WATERSHED - CHERAI (IWMP)
PANCHAYAT SAMITI - OSIAN
DISTRICT- JODHPUR



Legend

- ROAD
- VILLAGE
- KHASRA BOUNDARY
- RIVER/ WATERBODY
- SETTLEMENT
- WATERSHED OUTER

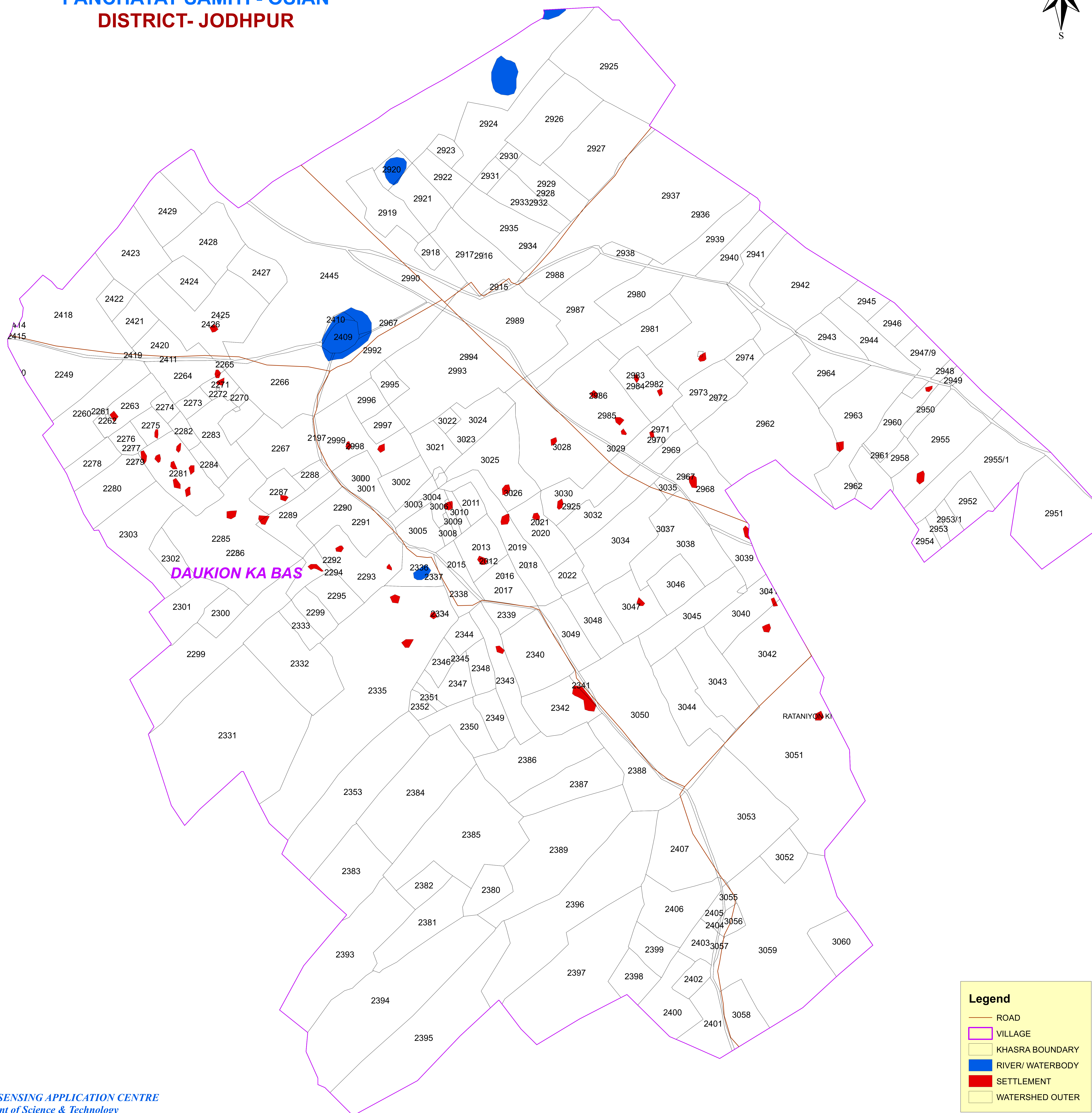
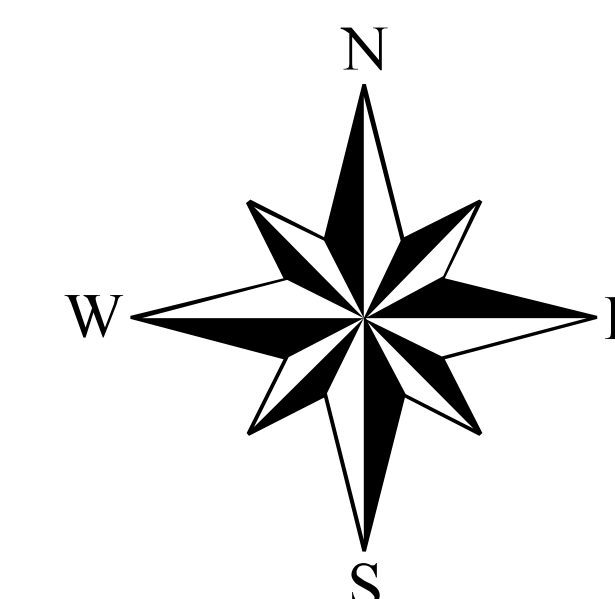
GEOREFERENCED KHASRA MAP
VILLAGE- CHERAI, WATERSHED - CHERAI (IWMP)
PANCHAYAT SAMITI - OSIAN
DISTRICT- JODHPUR



Legend

- ROAD
- VILLAGE
- KHASRA BOUNDARY
- RIVER/ WATERBODY
- SETTLEMENT
- WATERSHED OUTER

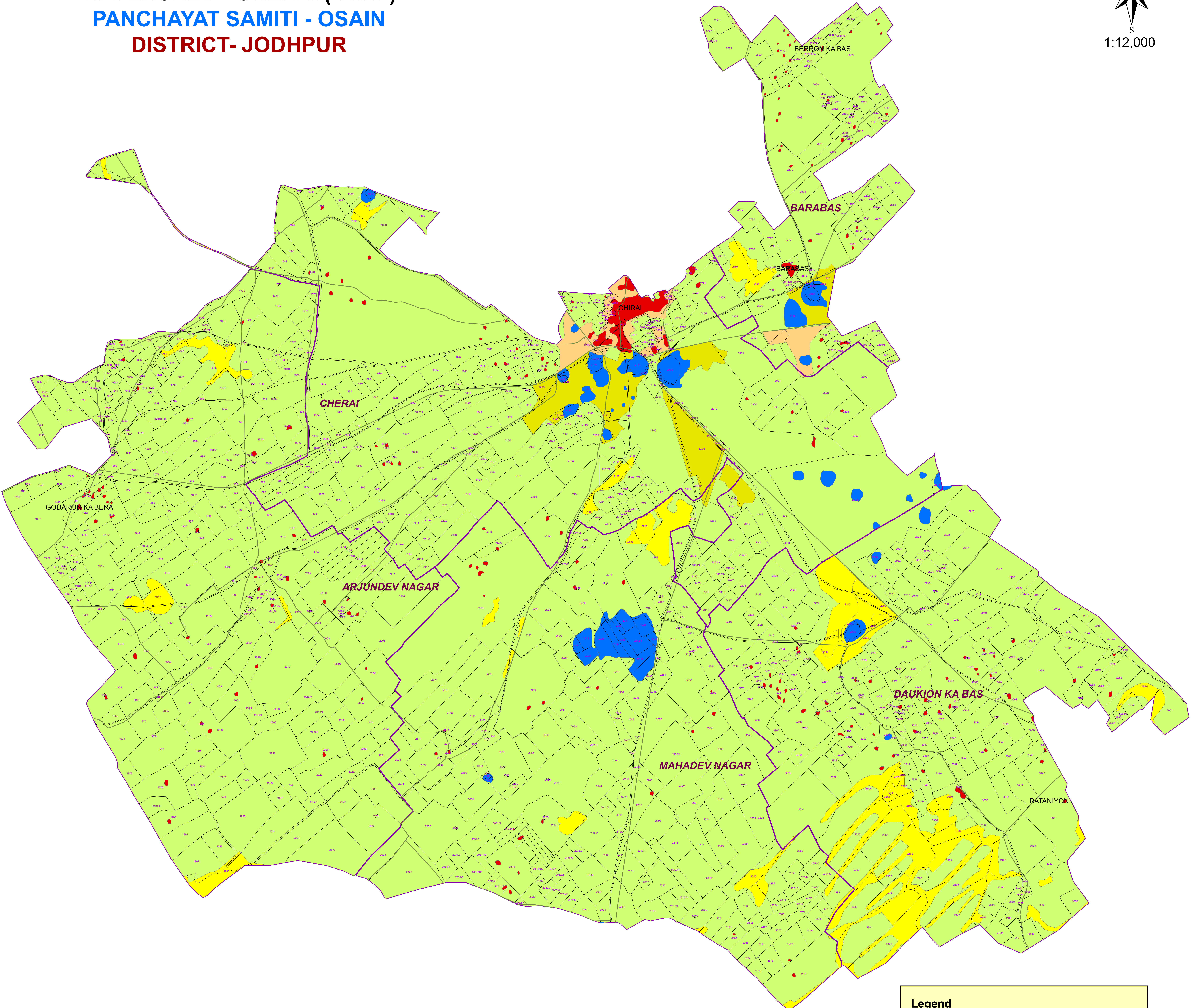
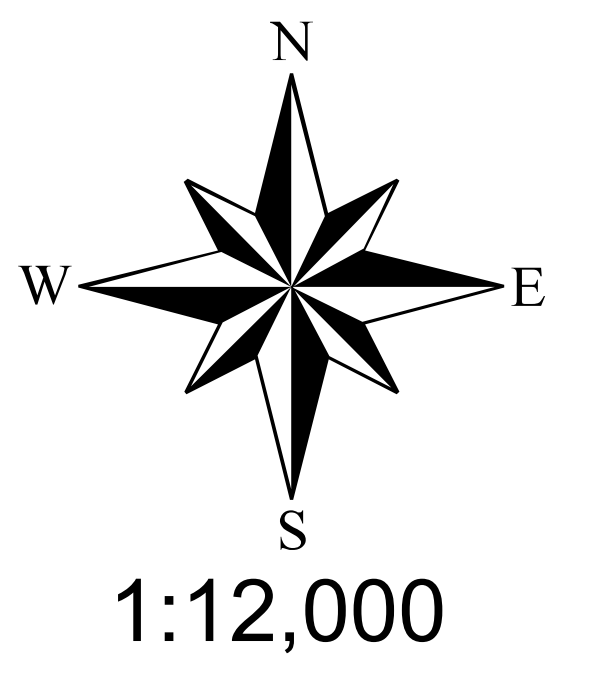
GEOREFERENCED KHASRA MAP
VILLAGE- DAUKION KA BAS, WATERSHED - CHERAI (IWMP)
PANCHAYAT SAMITI - OSIAN
DISTRICT- JODHPUR



Legend

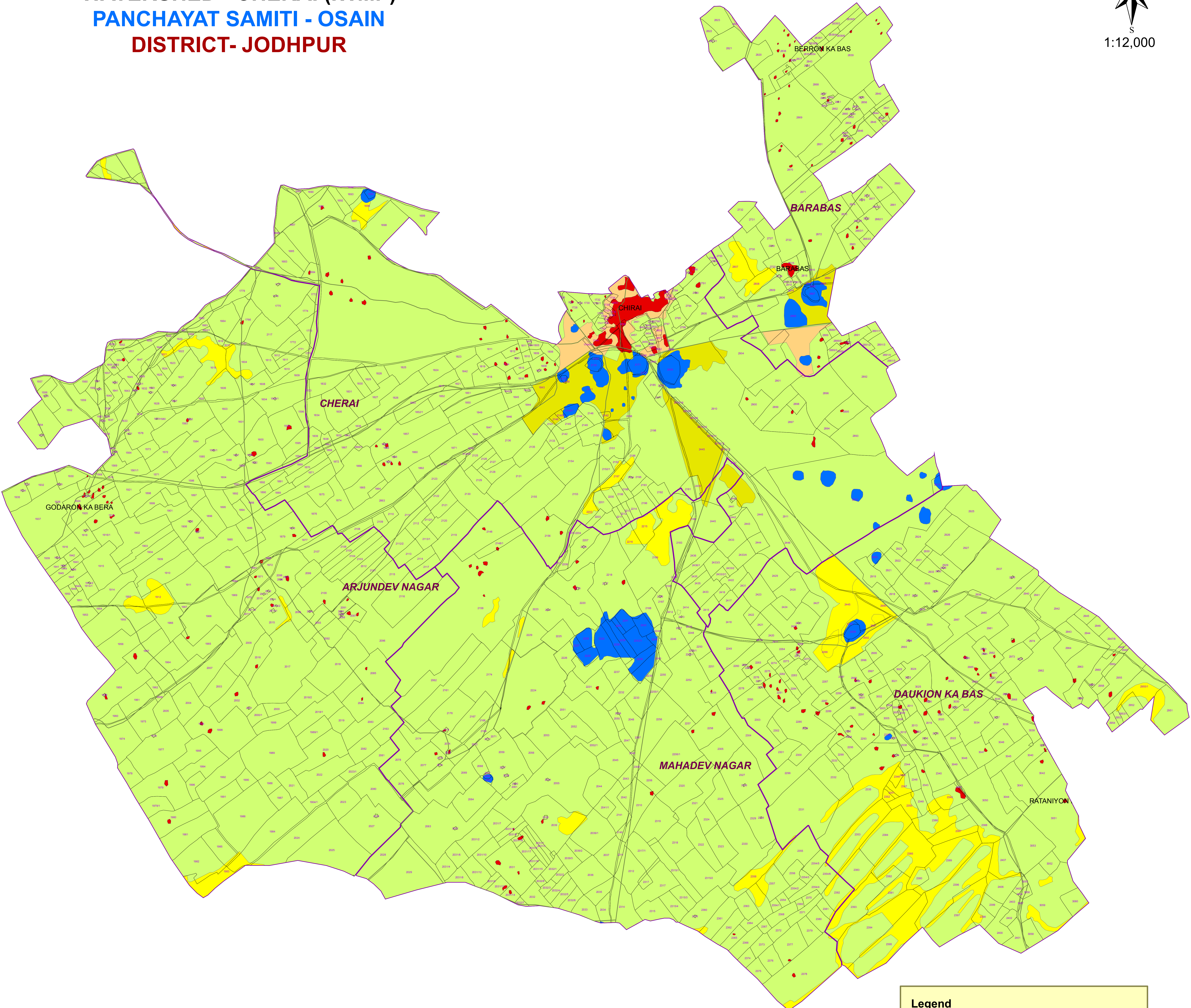
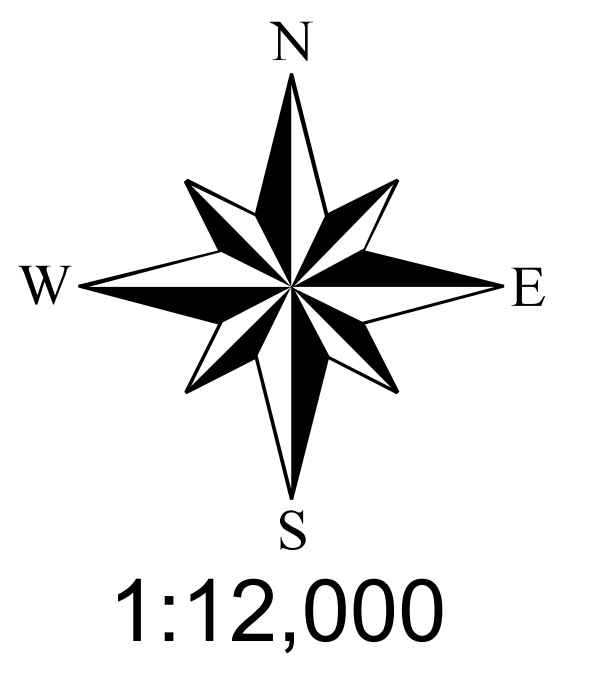
- ROAD
- VILLAGE
- KHASRA BOUNDARY
- RIVER/ WATERBODY
- SETTLEMENT
- WATERSHED OUTER

LAND USE LAND COVER MAP
WATERSHED - CHERAI (IWMP)
PANCHAYAT SAMITI - OSAIN
DISTRICT- JODHPUR



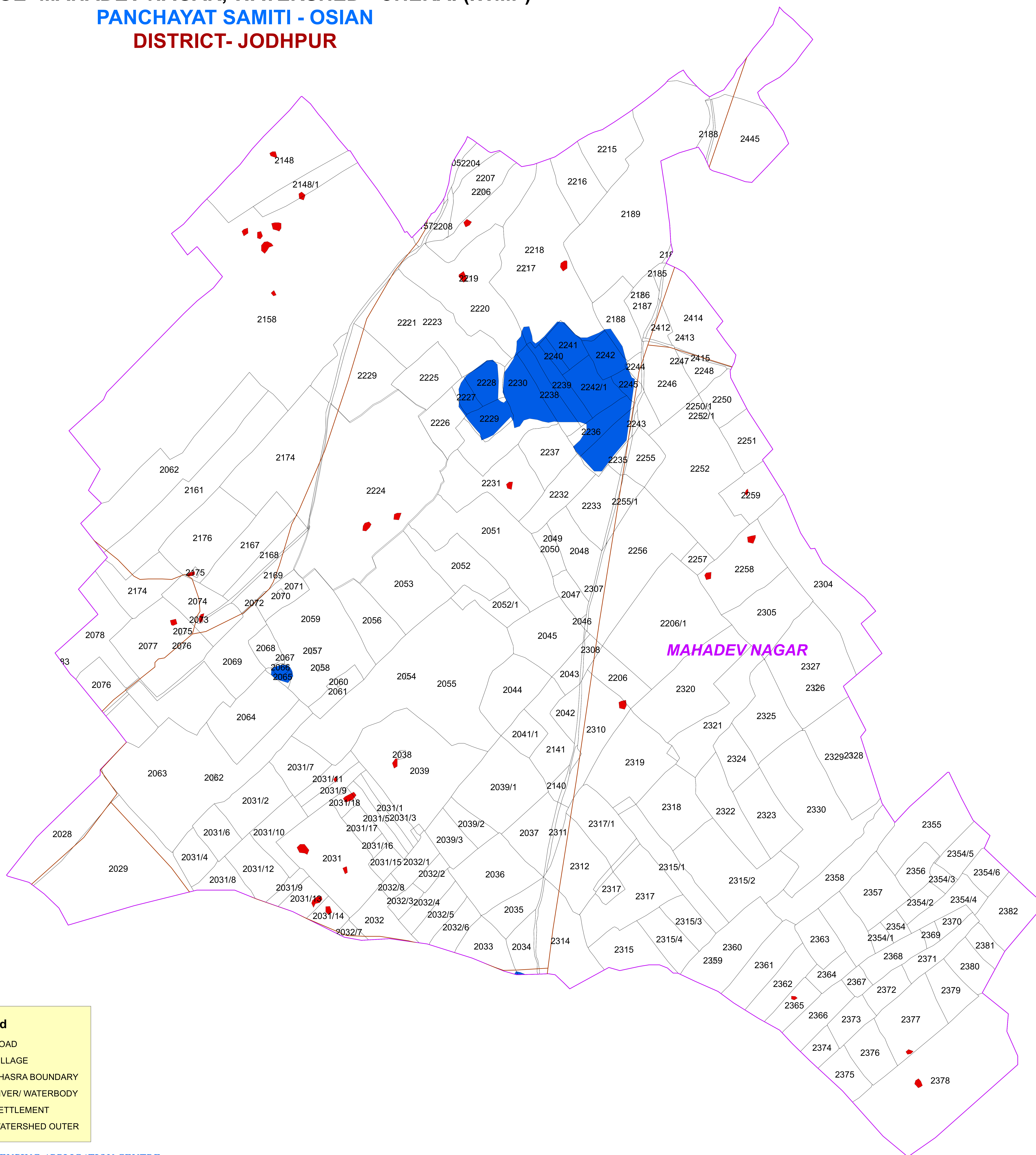
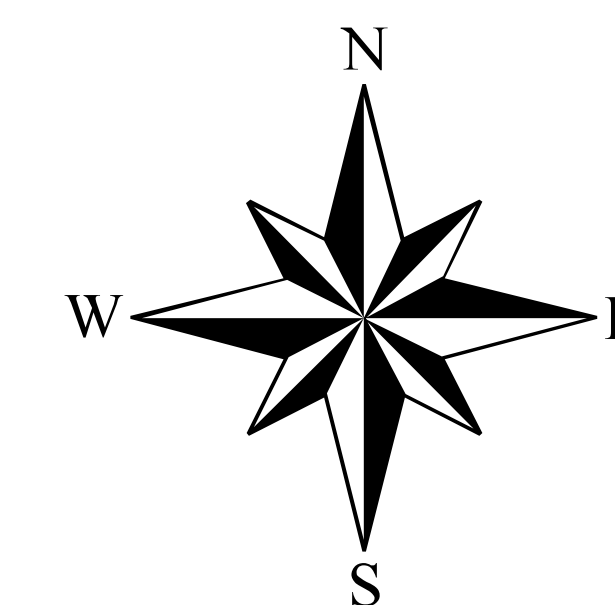
| Legend | |
|-------------------|--------------------|
| — ROAD | LAND WITH SCRUB |
| — VILLAGE | LAND WITHOUT SCRUB |
| — KHASRA BOUNDARY | SANDY DESERTIC |
| ■ SETTLEMENT | ■ SETTLEMENT |
| ■ AGRICULTURE | ■ WATERBODY |

LAND USE LAND COVER MAP
WATERSHED - CHERAI (IWMP)
PANCHAYAT SAMITI - OSAIN
DISTRICT- JODHPUR



| Legend | |
|-------------------|--------------------|
| — ROAD | LAND WITH SCRUB |
| — VILLAGE | LAND WITHOUT SCRUB |
| — KHASRA BOUNDARY | SANDY DESERTIC |
| ■ SETTLEMENT | ■ SETTLEMENT |
| ■ AGRICULTURE | ■ WATERBODY |

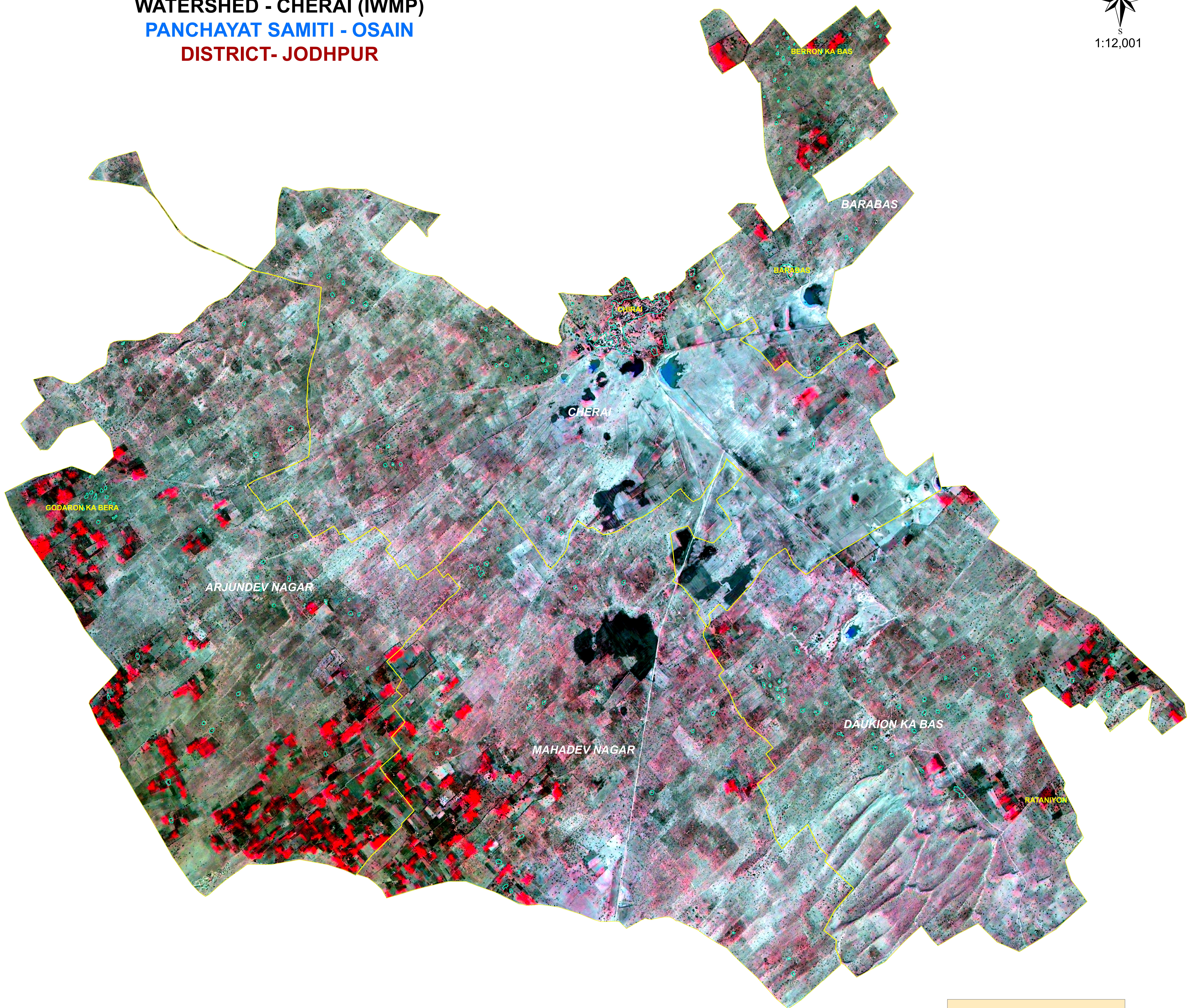
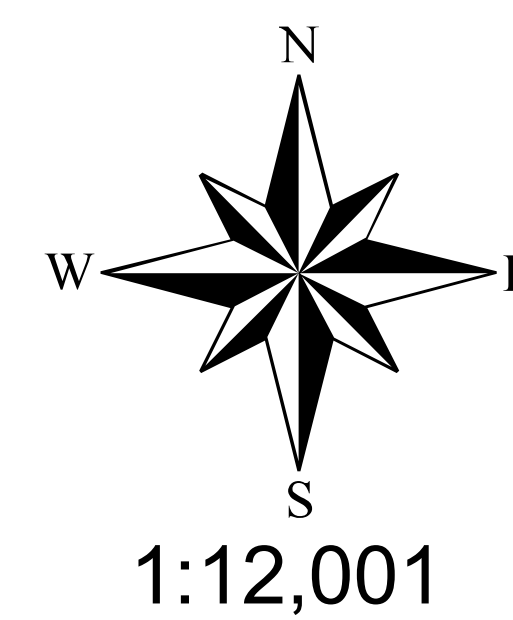
GEOREFERENCED KHASRA MAP
VILLAGE- MAHADEV NAGAR, WATERSHED - CHERAI (IWMP)
PANCHAYAT SAMITI - OSIAN
DISTRICT- JODHPUR



Legend

- ROAD
- VILLAGE
- KHASRA BOUNDARY
- RIVER/ WATERBODY
- SETTLEMENT
- WATERSHED OUTER

CARTOSAT-1 (LISS- III MERGE) SATELLITE IMAGE
WATERSHED - CHERAI (IWMP)
PANCHAYAT SAMITI - OSAIN
DISTRICT- JODHPUR



Legend

- SETTLEMENT
- VILLAGE