## Annexure

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Annexure No. 1  Administrative structure of India

- Republic of India
  - States
  - Union Territories
    - Divisions
    - Districts
      - Blocks (Tehsils/Talukas)
      - Municipal Corporation (Maha-Nagar-Palika)
      - Municipalities (Nagar-Palika)
      - City Councils (Nagar Panchayat)
        - Village (Gram/Gaon)
        - Wards
Annexure No. 2

Available renewable internal freshwater resources per capita (in cubic meters) of different countries:

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Annexure No. 3  River Basin of India

[Map of India's river basins]
Annexure No. 4  Ranking of Districts on Index of Backwardness
(Planning Commission, 2004)

Ranking of 447 Districts on Index of Backwardness
(3 Parameters - SC & ST, Agri. Wages, Output per Agri. Worker)

*The districts with low wages, low productivity and high SC/ST population would be ranked as backward on this index.

<table>
<thead>
<tr>
<th>Actual Rank</th>
<th>State</th>
<th>District</th>
<th>Total SC ST Pop. in % (1991 Census)</th>
<th>Agri. Wages (Rs/day) 1996-97</th>
<th>Output / Agri. Worker (Rs/Ag Worker) (1990-93)</th>
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<td>1</td>
<td>Gujarat</td>
<td>Dangs</td>
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INDIA
Backward Districts

Map not to Scale
Copyright © 2004 Compare Infobase Pvt. Ltd.
### Annexure No.5

#### Plan wise Outlays and Cumulative Growth in Creation of Irrigation Potential (Major & Medium Projects)

<table>
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<th>Period</th>
<th>Outlay/Expenditure (Rs. Crores)</th>
<th>Cumulative Expenditure (Rs. Crore)</th>
<th>Potential created (m.ha.) During</th>
<th>Potential Utilized (m.ha) Cumulative</th>
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<td>II Plan (1956-61)</td>
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<td>IV Plan (1969-74)</td>
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<td>Annual Plans (1978-80)</td>
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<td>VI Plan (1980-85)</td>
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<td>14968.9</td>
<td>1.09</td>
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<td>VII Plan (1985-90)</td>
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The Constitution of India lays down the legislative and functional jurisdiction of the Union, State and local Governments regarding ‘Water’. Under the scheme of the Constitution, ‘Water’ is basically a State subject and the Union comes in only in the case of inter-state river waters.

(Source: [http://www.cwc.nic.in/main/webpages/statistics.html](http://www.cwc.nic.in/main/webpages/statistics.html); Viewed on February, 2015)
## Annexure No. 6 (a)  River Basin wise Ground Water Potential of the Country

<table>
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<th>Sr. No.</th>
<th>Name of River Basin</th>
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<th>Percentage %</th>
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<td>Northeast Composite</td>
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<td>Total Resources in BCM</td>
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Annexure No. 6 (b)  Irrigation potential total and share of Ground water (State wise)

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<th>State &amp; Union Territory</th>
<th>Total Irrigation Potential (000 Ha.)</th>
<th>Ground Water Potential (000 Ha.)</th>
<th>Share of Ground Water in Total Ultimate Irrigation Potential (%)</th>
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(Source: Groundwater Irrigation in India: Gains, Costs and Risks, Vasant P. Gandhi, N.V. Namboodiri, W.P. No. 2009-03-08, IIM, Ahmedabad; March 2009)
Annexure No. 7  System of Irrigation Management: Canal

The canal irrigation management divided into three segments: water distribution, agricultural production, consumption and sale. Following flow chart will give the linkage between these segments and describe various activities under each segment.

Notes: Adapted and extended from Keller and Peterson 1986, Chamber, 1988, Pp 36.
### Annexure No. 8

State wise Scheduled Tribes Population, 2011

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**Note:** NST : No Scheduled Tribes Population  
(Census, 2011)
### Annexure No. 9 State wise Percentage Share of Scheduled Tribes Population to Total Population of All India and of the State, 2001 & 2011

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| 3       | D & N Haveli             | 3.44                 | 1.79                                          | 0.16                                          | 0.17  | 62.24 | 51.95 |
| 4       | Daman & Diu              | 2.43                 | 0.15                                          | 0.02                                          | 0.01  | 8.85  | 6.32  |
| 5       | NCT of Delhi             | 167.88               | NST                                           | -                                             | -     | -     | -     |
| 6       | Lakshadweep              | 0.64                 | 0.61                                          | 0.07                                          | 0.06  | 94.51 | 94.80 |
| 7       | Puducherry               | 12.48                | NST                                           | -                                             | -     | -     | -     |

(Census, 2011)
Annexure no. 10  General questions for discussion with individuals
(Translated in to English-original format was in Gujarati.)

“A Study on Economic Impact of Water Resource Development for Irrigation in the Dangs District”

Name of Student:
Mr. Umesh Desai, Researcher - CSRM, Gujarat Vidyapith, Randheja – Gandhinagar 382620
Name of Guide
Dr. Mayuri Farmar, Faculty - CSRM, Gujarat Vidyapith, Randheja – Gandhinagar 382620
CodeNumber:

General questions for discussion with individuals

1. Name of respondent:
2. Do you know about the Dangs? Tell me……
3. How do you know Dangs?
4. Tell me …your experience of working in the Dangs District?
5. What you had done for Dangs so far….
6. How do you know irrigation and Opinion about irrigation?
7. Do you know about water in Dangs
8. Do you know about irrigation Dangs
9. How did the tribal people of the Dangs do irrigation?
10. Did you find irrigation is useful:
11. Did you know how much money required investing for Irrigation?
12. After irrigation did labour wage increased
13. Does income leads development of your family
14. Who manage irrigation project / machinery?
15. Problem of irrigation?
16. Who solve irrigation related problem?
17. What type of expenditure you have to do for irrigation?
18. Benefit of irrigation?
19. Challenges related to irrigation?
20. What to do to increase irrigation in the Dangs District?
Annexure no. 11  Respondent format for Irrigated farmers
(Translated in to English-original format was in Gujarati.)

“A Study on Economic Impact of Water Resource Development for Irrigation in the Dangs District”
Name of Student:
Mr.Umesh Desai, Researcher - CSRM, Gujarat Vidyapith, Randheja – Gandhinagar 382620
Name of Guide
Dr. Mayuri Farmar, Faculty - CSRM, Gujarat Vidyapith, Randheja – Gandhinagar 382620

<table>
<thead>
<tr>
<th>Code</th>
<th>Number:</th>
</tr>
</thead>
</table>

Respondent formate for Irrigated farmers

<table>
<thead>
<tr>
<th>Name of respondent:</th>
<th>APL / BPL :</th>
</tr>
</thead>
</table>

2. Cast: Bhil/ Kokani/ Varli/ Kotwaliya

3. Name of village: Taluka:

4. Age: Marital status: Married/ Un married Education:

5. Irrigation (group/ individual): Irrigation experience (In years):

6. If in group
   a. Source:
   b. Method of irrigation: (Flow/ Lift)
   c. Land in command area (In Acre)
   d. Method of irrigation: (Tick Mark √)

<table>
<thead>
<tr>
<th>Well</th>
<th>Bore well</th>
<th>Mobile engine</th>
<th>Mini Lift</th>
<th>Lift Irrigation</th>
<th>Lift Irrigation</th>
<th>Flow irrigation</th>
</tr>
</thead>
</table>

7. Place of project:

8. No. of beneficiaries if in group:

9. Total land in command area:
10 Beneficiaries own land:

11 Beneficiaries land in this project command area:

12 Head of family

13 Relation between head of family and respondent:

14 Family details:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name</th>
<th>Age</th>
<th>Male/ Female</th>
<th>Education</th>
<th>Profession</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

15 Land information:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Land type</th>
<th>In Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Total land</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Own land</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Land under mortgage</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Land taken for mortgage</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Agriculture land</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Irrigated land</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Rainfed land</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Waste land</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Gauchar land</td>
<td></td>
</tr>
</tbody>
</table>

16 Information about Agriculture land purchase or sell (In Acre)

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Land information</th>
<th>Today status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Own Land sold out</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Other people land sold out</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Land purchase</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Other people purchase land</td>
<td></td>
</tr>
</tbody>
</table>
17 Source of Water

<table>
<thead>
<tr>
<th>Use of water</th>
<th>Canal</th>
<th>Well</th>
<th>Hand pump</th>
<th>Rivulet/ river</th>
<th>Water supply scheme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic use</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Irrigation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Animal</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

18 Well/ Bore well information

Ownership: 1. Own, 2. Group, 3. Others

Type of well: 1. Open, 2. Bore well, 3. Well with bore well

Well: Constructed:  Not- constructed:

19 Expenditure of well/ bore well:

<table>
<thead>
<tr>
<th>Well – Depth (feet)</th>
<th>Well – Diameter (feet)</th>
<th>Bore – Diameter (Inch)</th>
<th>Bore Depth (feet)</th>
</tr>
</thead>
</table>

20 Well/ stream/ river:

a): Well: (Depth in feet)

<table>
<thead>
<tr>
<th>Monsoon</th>
<th>Winter</th>
<th>Summer</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

b) Stream: Water flow situation:

<table>
<thead>
<tr>
<th>Monsoon</th>
<th>Winter</th>
<th>Summer</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

21 Irrigation equipment details:

<table>
<thead>
<tr>
<th>Diesel engine/ motor</th>
<th>H.P.</th>
<th>Purchase details</th>
<th>Years</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Pipes                |      |                  |       |
|                      |      |                  |       |

| Other equipment / rental |      |                  |       |
|                         |      |                  |       |

22 How irrigation comes to your village: (How do you know irrigation)

23 Did you invest for Irrigation?  How much?
24. Did you find irrigation is useful?

25. Does you able to irrigate your land:
   
a. How much

b. Convert land in to agriculture

<table>
<thead>
<tr>
<th>Land</th>
<th>In acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irrigated land</td>
<td></td>
</tr>
<tr>
<td>Un irrigated land</td>
<td></td>
</tr>
<tr>
<td>Other land</td>
<td></td>
</tr>
<tr>
<td>Total land</td>
<td></td>
</tr>
</tbody>
</table>

26. Did you mortgage your land:

27. Did land price increase after irrigation

28. Does irrigation leads land improvement: (tick mark √)

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Details</th>
<th>Tick mark √</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Land levelling</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Farm bunding</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Remove stone and clean farm</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Watershed work</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Covert barren land in to agriculture</td>
<td></td>
</tr>
</tbody>
</table>

29. Does your crop safety increase due to irrigation: (Yes/ No.)

30. Does your capacity increase to do irrigation: (Yes/ No.)

31. Agriculture status (In Acre)

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Season</th>
<th>Land under Agriculture</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Monsoon</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Winter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Summer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

32. Dose irrigation leads change in cropping patter: (Yes/ No.)
<table>
<thead>
<tr>
<th>Season</th>
<th>Name of crop</th>
<th>Variety</th>
<th>Season</th>
<th>Name of crop</th>
<th>Variety</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

33. House details:

<table>
<thead>
<tr>
<th>House Numbers</th>
<th>Total room</th>
<th>Katcha Wall</th>
<th>Pacca Wall</th>
<th>Katcha Room</th>
<th>Pacca Room</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

34. Irrigation leads increase in crop production: : (Yes/ No.)

<table>
<thead>
<tr>
<th>Name of crop</th>
<th>Seeds (in kg)</th>
<th>Production (kg)/ “mane”</th>
<th>Expenditure in Rs.</th>
<th>Sale price in Rs./ Kg.</th>
<th>Amout in Rs.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

35. Crop information: (rice, Nagali, varai, wheat, vegetables, Udad (black gram), green gram, gram..etc.)

Name of Crop: (separate for each crop)

<table>
<thead>
<tr>
<th>Expenditure</th>
<th>In (Kg)</th>
<th>Rate</th>
<th>Amount</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seeds</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Land preparation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DAP</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Uriya</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cow dung</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pesticides</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Planting expenditure</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weeding expenditure</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Harvesting</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marketing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other expenditure</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Expenditure</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Income</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Production (In kg)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fodder in bundles.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Where sold
In kg / quintal/ in Mane..

Gain in Loss (In Rs.)
36. Is there fodder enough due to irrigation: (Yes/ No.)

37. Increase in milk animal:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Animal Type</th>
<th>Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

38. Did you member of milk cooperative (Yes/ No)

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>No of milk animal</th>
<th>Production of Milk in litter</th>
<th>Milk in liter Home consumption</th>
<th>In Dairy</th>
<th>Monthly Milk in Liters</th>
<th>Yearly Milk in Liters</th>
<th>Milk annual income Gross</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(* 50%net)</td>
</tr>
</tbody>
</table>

39. After irrigation, in which sector labour demand increase

<table>
<thead>
<tr>
<th>Agriculture</th>
<th>Construction</th>
<th>Animal Husbandry</th>
<th>Local labour</th>
<th>Local business</th>
<th>Industry</th>
<th>Business</th>
</tr>
</thead>
</table>

40. After irrigation did labour wage increased (Yes/ No)

41. How much? (Before and After)

42. Migration

Did anybody from your family migrate after irrigation (Yes/ No)

<table>
<thead>
<tr>
<th>No of people</th>
<th>Place of labour work</th>
<th>Type of work</th>
<th>Monsoon No of days</th>
<th>Winter</th>
<th>Summer</th>
<th>Total days</th>
<th>Income due to migration</th>
</tr>
</thead>
</table>

43. Does your household income increase after irrigation (Yes/ No)

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Details of income</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Agriculture income</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Animal husbandry</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Service</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Business income</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Labour work</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Other income</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
44. Where did you use this additional income due to irrigation? (any eight maximum)

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Details</th>
<th>√</th>
<th>Sr. No.</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bicycle</td>
<td></td>
<td>9</td>
<td>Sofa set</td>
</tr>
<tr>
<td>2</td>
<td>Jeep</td>
<td></td>
<td>10</td>
<td>tremor</td>
</tr>
<tr>
<td>3</td>
<td>Tractor</td>
<td></td>
<td>11</td>
<td>Swing machine</td>
</tr>
<tr>
<td>4</td>
<td>Motor cycle</td>
<td></td>
<td>12</td>
<td>freeze</td>
</tr>
<tr>
<td>5</td>
<td>Table</td>
<td></td>
<td>13</td>
<td>Utensils</td>
</tr>
<tr>
<td>6</td>
<td>Chair</td>
<td></td>
<td>14</td>
<td>Radio/ tape</td>
</tr>
<tr>
<td>7</td>
<td>Cupboard</td>
<td></td>
<td>15</td>
<td>tv</td>
</tr>
<tr>
<td>8</td>
<td>Scooter</td>
<td></td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

45. Increase income leads to increase expenditure or decrease expenditure?

46. Does your life style improve (Yes/ No)

How was it?

47. Does increase income leads more facility in home? (Yes/ No).

Describe it?

48. Social status of your family?

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Good</td>
<td></td>
</tr>
<tr>
<td>Medium</td>
<td></td>
</tr>
<tr>
<td>Poor</td>
<td></td>
</tr>
</tbody>
</table>

49. Education of your children

<table>
<thead>
<tr>
<th>Sr No.</th>
<th>Child</th>
<th>Education</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

50. Does income leads development of your family (Yes/ No)

51. Did you satisfy from your situation (Yes/ No)
52. Does income lead effect on your family in which sector?

1. Economic
2. Education
3. Social
4. Health
5. Political

53. Who manage your irrigation project / machinery?

54. Problem you face due to irrigation?

55. Who solve your irrigation related problem?

56. What type of expenditure you have to do for irrigation?

57. Do you pay irrigation fees? (Yes/ No)

58. Benefit of irrigation?

59. Challenges related to irrigation?

60. Opinion about irrigation? What to do to increase your irrigation?

61. What to do to increase irrigation in the Dangs District?
Annexure no. 12 Format for Respondent information about Rainfed farmer
(Translated in to English original format was in Gujarati.)

“A Study on Economic Impact of Water Resource Development for Irrigation in the Dangs District”

Name of Student:
Mr. Umesh Desai, Researcher - CSRM, Gujarat Vidyapith, Randheja – Gandhinagar 382620

Name of Guide
Dr. Mayuri Farmar, Faculty - CSRM, Gujarat Vidyapith, Randheja – Gandhinagar 382620

___________________________________________________________________________

Format for Respondent information about Rainfed farmer

1. Name of respondent:        APL/BPL:

2. Cast: Bhil/ Kokani/ Varli/ Kotwaliya/ other tribal/ Non-tribal

3. Name of village : Taluka:

4. Age: Marital status; (Married/ Un-married)

Education:

5. Family information

<table>
<thead>
<tr>
<th>No’s.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult Male</td>
</tr>
<tr>
<td>Adult Female</td>
</tr>
<tr>
<td>Boys</td>
</tr>
<tr>
<td>Girls</td>
</tr>
</tbody>
</table>

6. Agriculture income: Rs. (collected thru annexure 12 (a) form)*

7. Non agricultural income:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Animal husbandry (pada/ox/ cow/ buffellow)</td>
</tr>
<tr>
<td>2</td>
<td>Service</td>
</tr>
<tr>
<td>3</td>
<td>Labour (within village)</td>
</tr>
<tr>
<td>4</td>
<td>Labour (Out side village)</td>
</tr>
<tr>
<td>5</td>
<td>Small business / artist work</td>
</tr>
<tr>
<td>6</td>
<td>Other work</td>
</tr>
</tbody>
</table>
8. Migration details / Income : (collected thru annexure 12 (b) form)*

<table>
<thead>
<tr>
<th>Details</th>
<th>No.</th>
<th>Months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult (Male/ Female)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Children (Male/ Female)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9. Land information (In hectare)

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Family (Land information)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Irrigated land</td>
</tr>
<tr>
<td>2</td>
<td>Rainfed land</td>
</tr>
<tr>
<td>3</td>
<td>Wast land</td>
</tr>
<tr>
<td>4</td>
<td>FRA land</td>
</tr>
</tbody>
</table>

10. Family assets (No’s)

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Details</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bullock/ Padda</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Cow/ Buffalo</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Chicken/ Hen</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Goat/ Sheep</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Bicycle</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Biogas/ LPG</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Motor cycle</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Car/ jeep/ tractor/ truck</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Tv/ channel/</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Radio</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Tetepones/ Mobile</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Freez</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Table</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Chair</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Cupboard</td>
<td></td>
</tr>
</tbody>
</table>

11. House details:

<table>
<thead>
<tr>
<th>No of house</th>
<th>Kattach Rooms</th>
<th>Pacca Rooms</th>
<th>Total Rooms.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12. Economic, social effect ? (food/ expenditure/ educaiton/ health)

13. Your question about Irrigation?
14. What to do for promote Irrigation?

15. What to do to promote irrigation in the Dangs district?

Annexure 12 (a) to calculate income from Agriculture crops
Name of crop

<table>
<thead>
<tr>
<th>Agriculture produce information</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Seeds</td>
<td>in Kg</td>
</tr>
<tr>
<td>Production</td>
<td>in Kg</td>
</tr>
<tr>
<td>Rate</td>
<td>Per Kg</td>
</tr>
<tr>
<td>Amount</td>
<td>in Rs.</td>
</tr>
<tr>
<td>Expenditure total</td>
<td>in Rs.</td>
</tr>
<tr>
<td>Net Income</td>
<td>In Rs.</td>
</tr>
</tbody>
</table>

Annexure 12 (b)
Migration Details

<table>
<thead>
<tr>
<th>How many people</th>
<th>How many month</th>
<th>How much money received</th>
<th>How much expenditure incurred</th>
<th>Net income during migration work</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Annexure no. 13  
(Use for NGOs professionals and Government officers)

Attribute for grading different options of irrigation in the Dangs district:

<table>
<thead>
<tr>
<th>Attribute for</th>
<th>Details</th>
<th>Weightage</th>
<th>Rank</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitability for</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Costing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maintenance</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operational cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potential (Bhil, Kokani, Ahwa, Subir, Waghai)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reason for success</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reason for failure</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sustainability</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strength</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weakness</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Opportunity</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Threat</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Annexure no. 14  (Use for NGOs professionals, Government officers and Farmers)
Detail analysis of different options for promotion irrigation in the Dangs district:

<table>
<thead>
<tr>
<th>Attributes</th>
<th>Details</th>
<th>Costing</th>
<th>Life</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>No of beneficiaries</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No. of Acres</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total one project cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No. of acres watering in One day: how much irrigation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>( No. of acre per day watering – 4 inch)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital cost (Infrastructure)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suction pipe up to engine/ motor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diesel engine/ electric motor/ submersible pump set (HP/ RPM)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Delivery pipe (Rising main)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diameter of pipe and length</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distribution system : Diameter of pipe and length</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Platform/ pump house/ intake chamber / outlet chamber / pipe outlet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cost of one acre one watering :</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel cost : One acre one watering fuel cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other cost : repairing and maintenance (Yearly)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heavy maintenance cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Life of Machinery</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Life of Pipeline</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Life of suction pipe</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Life of project as whole</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suggestion for Dangs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>How many such scheme available in Dangs district</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>How many such scheme can be possible in Dangs district</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Annexure No. 15

List of villages along with numbers of respondents of Irrigated farmers.

<table>
<thead>
<tr>
<th>Sr No.</th>
<th>Name of villages</th>
<th>Name of villages</th>
<th>Name of villages</th>
<th>Name of villages</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ahwa</td>
<td>Subir</td>
<td>Waghai</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Name of villages</td>
<td>No of respondents</td>
<td>Name of villages</td>
<td>No of respondents</td>
</tr>
<tr>
<td>1</td>
<td>Baradpani</td>
<td>7</td>
<td>Amsarpada</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>Bhavandagad</td>
<td>10</td>
<td>Chikhali</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>Chiktiya</td>
<td>9</td>
<td>Gurudiya</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>Davdahad</td>
<td>5</td>
<td>Jamala</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>Gavriya</td>
<td>11</td>
<td>Kakadvihir</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Gorya</td>
<td>4</td>
<td>Keshbandh</td>
<td>5</td>
</tr>
<tr>
<td>7</td>
<td>Hanvatchod</td>
<td>5</td>
<td>Kirli</td>
<td>8</td>
</tr>
<tr>
<td>8</td>
<td>Mulchond</td>
<td>12</td>
<td>Savarda</td>
<td>7</td>
</tr>
<tr>
<td>9</td>
<td>Nadagkhadi</td>
<td>9</td>
<td>Tanklipada</td>
<td>11</td>
</tr>
<tr>
<td>10</td>
<td>Nirgulmal</td>
<td>4</td>
<td>Timberthava</td>
<td>9</td>
</tr>
<tr>
<td>11</td>
<td>Sati</td>
<td>3</td>
<td>Vadpada</td>
<td>10</td>
</tr>
<tr>
<td>12</td>
<td>Sukmal</td>
<td>10</td>
<td>Vaydun</td>
<td>2</td>
</tr>
<tr>
<td>13</td>
<td>Vangan</td>
<td>6</td>
<td>Zaran</td>
<td>11</td>
</tr>
<tr>
<td>14</td>
<td>Vasurna</td>
<td>7</td>
<td>Subir Taluka</td>
<td>86</td>
</tr>
<tr>
<td>15</td>
<td>Ahwa Taluka</td>
<td>102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Annexure no. 16

List of villages and number of respondent of Rainfed farmers of the Dangs District.

<table>
<thead>
<tr>
<th>Name of Village</th>
<th>Nos of Respondent</th>
<th>Name of Village</th>
<th>Nos of Respondent</th>
<th>Name of Village</th>
<th>Nos of Respondent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambapada</td>
<td>2</td>
<td>Bhavandagad</td>
<td>5</td>
<td>Amsarpada</td>
<td>4</td>
</tr>
<tr>
<td>Baripada</td>
<td>3</td>
<td>Bhurapani</td>
<td>2</td>
<td>Bokadmal</td>
<td>2</td>
</tr>
<tr>
<td>Bhalkhet</td>
<td>5</td>
<td>Borkhal</td>
<td>5</td>
<td>Chikhili</td>
<td>8</td>
</tr>
<tr>
<td>Bhavadi</td>
<td>5</td>
<td>Chankhal</td>
<td>3</td>
<td>Gaygothan</td>
<td>3</td>
</tr>
<tr>
<td>Bhendman</td>
<td>3</td>
<td>Chikiya</td>
<td>3</td>
<td>Gurudiya</td>
<td>4</td>
</tr>
<tr>
<td>Borigavda</td>
<td>4</td>
<td>Chokiya</td>
<td>2</td>
<td>Hamvatpada</td>
<td>2</td>
</tr>
<tr>
<td>Chichinagvatha</td>
<td>8</td>
<td>Dhavlidod</td>
<td>5</td>
<td>Hindla</td>
<td>4</td>
</tr>
<tr>
<td>Chikar</td>
<td>1</td>
<td>Gaykhash</td>
<td>4</td>
<td>Jamanyamad</td>
<td>4</td>
</tr>
<tr>
<td>Chirapada</td>
<td>2</td>
<td>Ghubita</td>
<td>3</td>
<td>Kagariyamad</td>
<td>2</td>
</tr>
<tr>
<td>Dagadiamba</td>
<td>3</td>
<td>Gondalvihir</td>
<td>2</td>
<td>Kakadvihir</td>
<td>3</td>
</tr>
<tr>
<td>Godadiya</td>
<td>2</td>
<td>Hanvatchond</td>
<td>5</td>
<td>Khabhla</td>
<td>4</td>
</tr>
<tr>
<td>Gundwahal</td>
<td>5</td>
<td>Humbapada</td>
<td>2</td>
<td>Khajurne</td>
<td>4</td>
</tr>
<tr>
<td>Khatal</td>
<td>4</td>
<td>Jamalpada</td>
<td>4</td>
<td>Kirli</td>
<td>8</td>
</tr>
<tr>
<td>Koshimada-1</td>
<td>1</td>
<td>Mulchond</td>
<td>4</td>
<td>Piplaydevi</td>
<td>4</td>
</tr>
<tr>
<td>Lavarya</td>
<td>2</td>
<td>Nadadkhadi</td>
<td>2</td>
<td>Savarda</td>
<td>7</td>
</tr>
<tr>
<td>Machli</td>
<td>5</td>
<td>Nilsakyia</td>
<td>3</td>
<td>Tanklipada</td>
<td>5</td>
</tr>
<tr>
<td>Nadagchond</td>
<td>7</td>
<td>Payarpada</td>
<td>5</td>
<td>Vadpada</td>
<td>2</td>
</tr>
<tr>
<td>Patali</td>
<td>4</td>
<td>Sati</td>
<td>4</td>
<td>Vanjarghodi</td>
<td>7</td>
</tr>
<tr>
<td>Sarvar</td>
<td>3</td>
<td>Sinbandha</td>
<td>5</td>
<td>Vaydun</td>
<td>4</td>
</tr>
<tr>
<td>Susarada</td>
<td>4</td>
<td>Songir</td>
<td>4</td>
<td>Zaran</td>
<td>3</td>
</tr>
<tr>
<td>Vaghmal</td>
<td>3</td>
<td>Sukmal</td>
<td>3</td>
<td>Subir Taluka</td>
<td>84</td>
</tr>
<tr>
<td>Waghai Taluka</td>
<td>76</td>
<td>Temrun Gharta</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vangan</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vasurna</td>
<td>4</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Vahiramba</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ahwa Taluka</td>
<td>84</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Annexure No. 17  The Dangs district Map showing three Talukas and four rivers
Annexure No. 18
Map showing Distribution of villages of irrigated farmers in the Dangs district
Annexure No. 18
Map showing the villages for Rainfed farmers in the Dangs district map.
Annexure No. 19a

Map showing the villages Potential for irrigation in the Dangs district.
Annexure No. 19b

Map showing the villages Potential for irrigation in the Dangs district.
Annexure 20  Glimpse of the Dangs District