यूरोपियन यूपियन राज्य सहभागिता कार्यक्रम, राजस्थान
EU State Partnership Programme-Rajasthan

ग्राम पंचायत—निम्बाड़
पंचायत समिति—रानी
जिला—पाली

एकीकृत जल संसाधन प्रबंधन संशोधन कार्ययोजना
ग्राम जल स्वास्थ्य एवं स्वच्छता समिति—निम्बाड़

INTEGRATED WATER RESOURCES MANAGEMENT REVISED PLAN

तैयार करा / PREPARED BY:

VILLAGE WATER HEALTH AND SANITATION COMMITTEE
ग्राम जल स्वास्थ्य एवं स्वच्छता समिति—निम्बाड़

सहयोगी संस्था / WITH SUPPORT BY:

NGO:- RAJASTHAN VOLUNTARY HEALTH ASSOCIATION (RVHA), JAIPUR
संस्था—राजस्थान वालंटरी हेल्थ एसोसिएशन, जयपुर, राजस्थान

E-mail : nvharvha@rediffmail.com

वर्ष/2017-2018

<table>
<thead>
<tr>
<th>दिनांक</th>
<th>ग्राम समा दिनांक</th>
<th>नाम पदाधिकारी ग्राम पंचायत—निम्बाड़</th>
</tr>
</thead>
</table>
| 11.10.2017 | 11-10-2017   | सरपंच एवं अध्यक्ष ग्राम जल स्वास्थ्य एवं स्वच्छता समिति निम्बाड़—श्रीमति कित्ता देवी
स्वेक एवं पदेन सचिव—श्री सैसा राम |

(1-23)
EU State Partnership Programme-Rajasthan

INTEGRATED WATER RESOURCES MANAGEMENT (IWRM) REVISED PLAN

PREPARED BY:

VILLAGE WATER HEALTH AND SANITATION COMMITTEE
NIMBARA- GRAM PANCHAYAT

WITH SUPPORT BY:

NGO: RAJASTHAN VOLUNTARY HEALTH ASSOCIATION (RVHA), JAIPUR

E-mail: rvharvha.rediffmail.com

Year /2017-2018

<table>
<thead>
<tr>
<th>Date</th>
<th>Plan approved by</th>
<th>Name</th>
<th>NIMBARA</th>
<th>Signature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gram Sabha</td>
<td>Sarpanch: Sm. Vidya Devi</td>
<td>Secretary GP: Sh. Sesa Ram</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIWRM Team</td>
<td>Chair person DIWRM Team:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SWRPD</td>
<td>Chair person Review team:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(2-23)
FOREWORD: DOCUMENTATION OF THE PLANNING PROCESS followed by VWH&SC

Describe here how VWH&SC, with support from NGO, managed the following steps of the planning process in the GP

(a) Community mobilization – describe how local community was motivated to take part in the planning process, describe the difficulties met, if any

(b) Stakeholders’ participation – describe what was done in order to make sure that all the stakeholders were involved in the planning process, and that all water user groups, including the less powerful (women, poor, etc.) were given a chance to express their needs and take part in the decision making process.

- Involvement of all Water User Groups /YES

1. 1. Involvement of all Water User Groups /YES
2. Involvement of women
3. Involvement of backgroup groups (SC, ST, BPL)

- Involvement of all Water User Groups

1. Involvement of all Water User Groups /YES
2. Involvement of women
3. Involvement of backgroup groups (SC, ST, BPL)

- Involvement of women

1. Involvement of all Water User Groups /YES
2. Involvement of women
3. Involvement of backgroup groups (SC, ST, BPL)
c) Situation analysis – वर्तमान स्थिति अध्ययन – जिसी उपभोक्ता समस्या की हो, उसी उपभोक्ता की तुलना में मान अधिक है। जिसी उपभोक्ता समस्या से समय व पूर्व में समाज का स्वागत नहीं किया जा सकता। इसलिए इन एकाधिक उपयोग वर्ष का जोल का एकाधिक पेलेजर के रूप में उपयोग ही एक मात्र उपयोग है। जिससे सार्वजनिक टॉपी आगुन्त

गाया है। जो पालियां लाभ मजबूत जगह से देखी जाती है। जिससे हवाउरुा लोटर पानी

अवर रखना हो चाहिए। उसी रोजगा उपभोक्ता का प्रयोग करना है।

जब तक ठेंगा गाया में लाऊँगे PSP, H.P., Tube well, G.L.R., Livestock kund को सतर्कपूर्वता मार्गकर उसे वस्त्रांकन करे।

3) जिससे धातु के लिए उपभोक्ता कुल मे उसमें कम करना पड़ता है। जिससे आत्मीकरण होने भी होती है। इस पेलेजर का सभी समस्या उपभोक्ता नहीं हो पड़ता है।

(प्रयोग व पानी दूध का बचाव होगा।

4) कुछ कर्मों के लिए अतिरोधी पानी का उपयोग करना योग्य है। जबकि धातु के अधिकतम व सल्यान को पड़ता रहेगा जगह झड़ रहेगा।

5) भव्य किसी भी पानी की अधिकतम समय उपयोग करना को आत्मीकरण करता है।

5 शायद जल संचय करने उपयोग सिंचाई में करे। जिससे किसी को आत्मीकरण से उपभोक्ता फायदा होगा।

1) WWWWSC के संस्थापक से साइट जाने में समस्या से सार्वजनिक समस्याओ के लिए समय करना करनी होगी।

2 उम्मीद का अधिक वा उन्नीस जल संचय रहेगा।

3) जलसंचय के साइट में उपभोक्ता का अधिक तरीके से ईजाजत नहीं होगा।

4) जबकि पानी को ऊपर या ऊपर करके उपभोक्ता का अधिकतम व सल्यान को पड़ता रहेगा।

5) लोगों के साइट्स से पानी की जीवन से समस्या उपर जल संचय रहेगा।

6) जल से पेलेजर पर थोक लगाया जाता है। यह पर परिस्थित से ही निष्क्रिय होता है।

7) गाया में पीने के पानी की समय

8) इसमें इन मुद्दों के पानी में सफाई का महत्त्व WWWWSC एवं महत्वपूर्ण कदम है। केंद्रीय आयुक्तकार्युपाल ने पेलेजर का निर्णय परेशान उपयोग कुश्ती आयुक्तकार्युपाल के लिए आयुक्तकार्युपाल निर्णय करें।

(e) Approval of IWRM Plan by Gram Sabha – ग्राम सभा के आयुक्तकार्युपाल ने WWWWSC को ग्राम सभा के आयुक्तकार्युपाल ने दिया जा चुका है। WWWWSC के उपर जल संचय से समय किया। उसके बाद से 4 महीने गाया में मानवीय मात्रा का महत्त्व पूरे होता है। प्रावधान का प्रतीक्षन नवीनित्विता के रूप में प्रारूप सरकार के निर्देश कर दिया गया। प्रावधान का प्रतीक्षन नवीनित्विता के रूप में प्रारूप नहीं कर दिया गया।}

GP IWRM Plan format

(5-23)
1. GENERAL INFORMATION (Source: GP employee)

<table>
<thead>
<tr>
<th>Name of Gram Panchayat</th>
<th>NIMBARA</th>
<th>Distance from Block Headquarter in km</th>
<th>Block</th>
<th>32 KM</th>
</tr>
</thead>
<tbody>
<tr>
<td>District</td>
<td>PALI</td>
<td>Distance from District Headquarter in km</td>
<td>District</td>
<td>30 KM</td>
</tr>
<tr>
<td>GP total surface area (in Hectares)</td>
<td>1416</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: Patwari

1.1 GP Total Population – Growth Trend

<table>
<thead>
<tr>
<th>Year</th>
<th>2001</th>
<th>2011</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data source</td>
<td>Census</td>
<td>Census</td>
<td>Projected (using Decadal Growth Rate DGR)</td>
</tr>
<tr>
<td>GP Population</td>
<td>2287</td>
<td>2542</td>
<td>11.99 %</td>
</tr>
</tbody>
</table>

Source: Census Data / Projected population to be calculated using Decadal Growth Rate: \( \text{Pop}_{2021} = \text{Pop}_{2011} \times (1+ \text{DGR/100}) \)

DGR/100) 1.2 Population – Break-up

<table>
<thead>
<tr>
<th>Name of the Village</th>
<th>2001</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>F</td>
</tr>
<tr>
<td>NIMBARA</td>
<td>604</td>
<td>533</td>
</tr>
<tr>
<td>PARTAPGARADH</td>
<td>414</td>
<td>474</td>
</tr>
<tr>
<td>GP Total</td>
<td>1018</td>
<td>1007</td>
</tr>
</tbody>
</table>

Source: Census Data (Estimates through PRA if Census data 2011 not available)

1.3 No of households

<table>
<thead>
<tr>
<th>Name of the Village</th>
<th>2001</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total BPL</td>
<td>Total BPL</td>
</tr>
<tr>
<td>NIMBARA</td>
<td>174</td>
<td>41</td>
</tr>
<tr>
<td>PARTAPGARADH</td>
<td>202</td>
<td>29</td>
</tr>
<tr>
<td>GP Total</td>
<td>376</td>
<td>70</td>
</tr>
</tbody>
</table>

Source: Census Data (Estimates through PRA if Census data 2011 not available)

1.4 Livestock population

<table>
<thead>
<tr>
<th>Name of the Village</th>
<th>2007</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cow, buffalo &amp; camel</td>
<td>Goat, pig and sheep</td>
</tr>
<tr>
<td>NIMBARA</td>
<td>240</td>
<td>1300</td>
</tr>
<tr>
<td>PARTAPGARADH</td>
<td>250</td>
<td>1000</td>
</tr>
<tr>
<td>GP Total</td>
<td>500</td>
<td>2300</td>
</tr>
</tbody>
</table>

Source: Livestock Census Data (Estimates through PRA if Census data is not available)
1.5 Climate & soil type [Fill maximum data]

<table>
<thead>
<tr>
<th>i) Agro-climatic Zone</th>
<th>II B TRANSITIONAL PLAIN OF LUNI BASIN, JODHPUR (PALI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source: Agriculture Directorate Website</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ii) Temperature</th>
<th>Annual Maximum (in °C) 46°C (Location = PALI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source: IMD (record from the closest location to the GP)</td>
<td>Annual Minimum (in °C) 15°C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Source: IMD</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>iv) Soil types (in % of GP total surface area)</th>
<th>a) Coarse textured soils - sand predominant - &quot;sandy soils&quot; 20%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source: PRRD agriculture supervisor</td>
<td>b) Medium textured soils - silt predominant - &quot;loamy soils&quot; 10%</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>----------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>c) Fine textured soils - clay predominant - &quot;clayey soils&quot; 70%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>v) Rainfall</th>
<th>Annual Average ([in mm] Average of past 10 years): 601</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source: WRD website (record from the closest rain gauge to the GP [at block])</td>
<td>Monsoon (June – September) rainfall ([in mm] Average of past 10 years): 554.60 mm</td>
</tr>
<tr>
<td></td>
<td>Non monsoon (October – May) rainfall ([in mm] Average of past 10 years): 46.40 mm</td>
</tr>
<tr>
<td></td>
<td>(Rain gauge location = RANI)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>vi) whether the Panchayat falls in DPAP or ODI Block</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source: DBO/Panchayat Samiti</td>
<td></td>
</tr>
</tbody>
</table>

1.6 Infrastructural facilities (provide map in Annex)

<table>
<thead>
<tr>
<th>a) Health Centres (number &amp; type)</th>
<th>PHC GOVT. 01</th>
</tr>
</thead>
<tbody>
<tr>
<td>b) Educational Institutions (number &amp; type)</td>
<td>1 G.S.S. 1 G.U.P.S.</td>
</tr>
<tr>
<td>c) Industries, mines (number and type)</td>
<td>No</td>
</tr>
</tbody>
</table>

Source: PRA

2. GP STAKEHOLDERS / WATER USER GROUPS

2.1 Village Water, Health and Sanitation Committee (VWH&SC)

<table>
<thead>
<tr>
<th>(a) Date of formation / reconstitution of the committee</th>
<th>12/03/2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>(b) Number of members</td>
<td></td>
</tr>
<tr>
<td>(i) Total No: 25</td>
<td></td>
</tr>
<tr>
<td>(ii) Male: 17</td>
<td></td>
</tr>
<tr>
<td>(iii) Female 18</td>
<td></td>
</tr>
<tr>
<td>(iv) SC: 27/ ST: 01</td>
<td></td>
</tr>
<tr>
<td>(v) BPL: 01</td>
<td></td>
</tr>
</tbody>
</table>

GP IWRM Plan format

(6-23)
<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of Member</th>
<th>Village</th>
<th>Male/Female</th>
<th>SC/ST/BPL</th>
<th>Position in GP</th>
<th>Position in VWH&amp; SC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sh. Vidya Choudhary</td>
<td>Nimbada</td>
<td>Female</td>
<td></td>
<td>Sarpanch</td>
<td>President</td>
</tr>
<tr>
<td>2</td>
<td>Sh. Sesaram</td>
<td>Nimbada</td>
<td>Male</td>
<td></td>
<td>Secretary</td>
<td>Secretary</td>
</tr>
<tr>
<td>3</td>
<td>Bhagawati Kanwar</td>
<td>Nimbada</td>
<td>Female</td>
<td></td>
<td>Up Sarpanch</td>
<td>Member</td>
</tr>
<tr>
<td>4</td>
<td>Jabar Singh</td>
<td>Nimbada</td>
<td>Male</td>
<td></td>
<td>Ward Panch</td>
<td>Member</td>
</tr>
<tr>
<td>5</td>
<td>Bharat Singh</td>
<td>Nimbada</td>
<td>Male</td>
<td></td>
<td>Ward Panch</td>
<td>Member</td>
</tr>
<tr>
<td>6</td>
<td>Budharam</td>
<td>Nimbada</td>
<td>Male</td>
<td></td>
<td>Ward Panch</td>
<td>Member</td>
</tr>
<tr>
<td>7</td>
<td>Budharam Parihar</td>
<td>Nimbada</td>
<td>Male</td>
<td></td>
<td>HM</td>
<td>Member</td>
</tr>
<tr>
<td>8</td>
<td>Manju Kanwar</td>
<td>Nimbada</td>
<td>Female</td>
<td></td>
<td>LDC</td>
<td>Member</td>
</tr>
<tr>
<td>9</td>
<td>Kanya Devi Choudhary</td>
<td>Nimbada</td>
<td>Female</td>
<td></td>
<td>ANW</td>
<td>Member</td>
</tr>
<tr>
<td>10</td>
<td>Mahendar Singh</td>
<td>Nimbada</td>
<td>Male</td>
<td></td>
<td>PHED</td>
<td>Member</td>
</tr>
<tr>
<td>11</td>
<td>Santosh Devi</td>
<td>Nimbada</td>
<td>Female</td>
<td></td>
<td>SC</td>
<td>Member</td>
</tr>
<tr>
<td>12</td>
<td>Bajaki</td>
<td>Nimbada</td>
<td>Male</td>
<td></td>
<td>SC</td>
<td>Member</td>
</tr>
<tr>
<td>13</td>
<td>Pyari Devi</td>
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<td></td>
<td>SC</td>
<td>Member</td>
</tr>
<tr>
<td>14</td>
<td>Mahendar Kumar</td>
<td>Nimbada</td>
<td>Male</td>
<td></td>
<td>Prarak</td>
<td>Member</td>
</tr>
<tr>
<td>15</td>
<td>Narayan Singh</td>
<td>Nimbada</td>
<td>Male</td>
<td></td>
<td>Prarak</td>
<td>Member</td>
</tr>
<tr>
<td>16</td>
<td>Balvat Singh</td>
<td>Nimbada</td>
<td>Male</td>
<td></td>
<td>Retired</td>
<td>Member</td>
</tr>
<tr>
<td>17</td>
<td>Khim Singh</td>
<td>Nimbada</td>
<td>Male</td>
<td></td>
<td>Retired</td>
<td>Member</td>
</tr>
<tr>
<td>18</td>
<td>Ashok Kumar</td>
<td>Nimbada</td>
<td>Male</td>
<td></td>
<td>BPL</td>
<td>Member</td>
</tr>
<tr>
<td>19</td>
<td>Bhanvari Devi</td>
<td>Nimbada</td>
<td>Female</td>
<td></td>
<td>BPL</td>
<td>Member</td>
</tr>
<tr>
<td>20</td>
<td>Bhuni Devi</td>
<td>Nimbada</td>
<td>Female</td>
<td></td>
<td>SHG</td>
<td>Member</td>
</tr>
<tr>
<td>21</td>
<td>Jeevi Devi</td>
<td>Nimbada</td>
<td>Female</td>
<td></td>
<td>SHG</td>
<td>Member</td>
</tr>
<tr>
<td>22</td>
<td>Danaram Choudhary</td>
<td>Nimbada</td>
<td>Male</td>
<td></td>
<td>Social</td>
<td>Member</td>
</tr>
<tr>
<td>23</td>
<td>Bahadur Singh</td>
<td>Nimbada</td>
<td>Male</td>
<td></td>
<td>Social</td>
<td>Member</td>
</tr>
<tr>
<td>24</td>
<td>Santosh Devi</td>
<td>Nimbada</td>
<td>Female</td>
<td></td>
<td>ANW</td>
<td>Member</td>
</tr>
<tr>
<td>25</td>
<td>Anju</td>
<td>Nimbada</td>
<td>Female</td>
<td></td>
<td>ANW</td>
<td>Member</td>
</tr>
</tbody>
</table>

(d) Contact Numbers of VWH&SC Chairman and Secretary
Smt. Vidya Choudhary:-
Sh. Sesaram:-

(7-23)
3. SITUATION ANALYSIS

3.1 Water resources status and potential water availability in the GP in the current year (to be calculated if data is available, details of water availability calculations to be given in Appendix) – Refer to IWRM Training Manual, Module 4 for more details

<table>
<thead>
<tr>
<th>Groundwater</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Pre monsoon Ground water level $Z_1$ (in m below ground level) – current year (if available) (Source: GWD)</td>
<td>25.0m</td>
</tr>
<tr>
<td>b) Post monsoon Ground water level $Z_2$ (in m below ground level) – current year (if available) (Source: GWD)</td>
<td>21.0 m</td>
</tr>
<tr>
<td>c) Aquifer surface area A (in $m^2$) (= GP area) (Source: Patwari)</td>
<td>14160000 m$^2$</td>
</tr>
<tr>
<td>d) Aquifer specific yield Y (Source: Groundwater information system, GWD)</td>
<td>0.02</td>
</tr>
</tbody>
</table>

**POTENTIAL GROUNDWATER AVAILABLE (m$^3$/year):** $GW = (Z_1 - Z_2) \times Y \times A$

$$4.0 \times 0.02 \times 14160000 = 1130800 \text{ m}^3$$

**Surface water** (maximum theoretical potential run-off generated in the GP area)

| a) Monsoon Rainfall R (in mm) – current year, June to September (Source: WRD) 554.60 | 1416 Hect |
| b) GP area B (in $m^3$) (Source: Patwari) | 1416000 m$^2$ |
| c) Catchment type (Good / Bad / Average, as per Strange) (See Training Manual) | Bad |
| d) Estimated runoff coefficient Ro (as per Strange table – Refer to Training Manual) | 0.086 |

**MAXIMUM POTENTIAL SURFACE WATER AVAILABLE* (m$^3$/year):** $SW = B \times R/1000 \times Ro$

$$1416000 \times 0.554 \times 0.086 = 67463.9 \text{ m}^3$$

**Treated sewage water (in m$^3$) TSW**

**TOTAL (GROUNDWATER + SURFACE WATER) (in m$^3$/year):** $GW + SW + TSW$

$$1132800 + 67463.9 = 1807439 \text{ m}^3$$

Source: PRA (FGD) / Groundwater Information System, GWD / Detailed calculations at WRC / Support from GWD & Watershed department if required

3.2 Existing water supply sources and supply systems within GP administrative boundaries (including uninhabited areas)

<table>
<thead>
<tr>
<th>Water sources and supply systems</th>
<th>Number in use / number abandoned (if abandoned, describe why; If dry, describe from month A to month B)</th>
<th>Water uses related to this source (ex: drinking water, domestic use, livestock, irrigation, industry, etc...)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIMBARA (a) Small water bodies (river, talab, johad, canal, anicut, check dam, etc...)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>River 1</td>
<td>July to September</td>
<td>Livestock</td>
</tr>
<tr>
<td>Anicut 2</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Nadi 2</td>
<td>July to December</td>
<td>Livestock</td>
</tr>
<tr>
<td>Talab 1</td>
<td>July to December</td>
<td>Livestock</td>
</tr>
<tr>
<td>Parapradgh River</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Anicut 1</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Nadi 2</td>
<td>July to December</td>
<td>Livestock</td>
</tr>
<tr>
<td>Talab 1</td>
<td>July to December</td>
<td>Livestock</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NIMBARA (b) Open wells, handpumps &amp; tubewells (list separately public and private infrastructures)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Open well T-367, private-364</td>
<td><strong>July to December</strong> थे जल सतर का गहरा होने के कारण</td>
<td>Drinking human, livestock, domestic all communities and irrigation</td>
</tr>
<tr>
<td>f. -200, N.f.-164</td>
<td>AWW or SC Basti</td>
<td>30</td>
</tr>
<tr>
<td>Govt 03</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f. -02</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nf.-01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water sources and supply systems</td>
<td>Number in use / number abandoned (if abandoned, describe why; if dry, describe from month A to month B)</td>
<td>Water uses related to this source (ex: drinking water, domestic use, livestock, irrigation, industry, etc...)</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-------------------------------------------------</td>
<td>-------------------------------------------------</td>
</tr>
<tr>
<td>Partapgarth T-367, private-24 f.-10, N.F.-14 Govt 02 f.-01 N.F.-01</td>
<td>July to December जंगल में खाने के कारण</td>
<td>Drinking human, livestock, domestic all communities and irrigation</td>
</tr>
<tr>
<td>NIMBARA Tub well T-5 F-04 N.F.-01</td>
<td>July to December जंगल में खाने के कारण</td>
<td>Drinking, livestock and domestic</td>
</tr>
<tr>
<td>Partapgarth Tub well T-2 F-01 N.F.-01</td>
<td>July to December जंगल में खाने के कारण</td>
<td>Drinking, livestock and domestic</td>
</tr>
</tbody>
</table>

(c) Handpump, GLR, PSP and Household connection

| NIMBARA HP T-08 F-01 functional-05 Not functional-03 | July to May जंगल में खाने के कारण | Human drinking domestic Livestock | For all communities | 30 | Tested Fluoride Drinkable 1.90 |
| PARTAPGARH HP T-08 Functional-05 Not functional-03 | July to May जंगल में खाने के कारण | Human drinking domestic Livestock | For all communities | 25 | Tested Fluoride Drinkable 1.90 |
| NIMBARA G.L.R. 2 Functional-2 | July to May जंगल में खाने के कारण | Human drinking domestic Livestock | For all communities | 30 | Tested Fluoride Drinkable 1.90 |
| PARTAPGARH G.L.R.1 Not functional | | | | | |
| NIMBARA P.S.P. Functional-01 | July to June जंगल में खाने के कारण | Human drinking domestic Livestock | For all communities | 30 | Tested drinkable Flouride-1.90 |
| PARTAPGARH P.S.P. No | No | No | | No | No |

(d) Rooftop rainwater harvesting, tanka, kund, etc...

| Rooftop rainwater harvesting | No | No | No | No | No |

(e) External sources and supplies from GP (Water tanker, etc) Note: for water tanker, add number of trips per day and location of water intake(same GP, GP located at 3km, etc)

| No | No | No | No | No | No |

Source: PRA (mainly Transect walk and Focus Group Discussion)
### Existing water uses in the GP (village-wise)

<table>
<thead>
<tr>
<th>Water uses</th>
<th>Existing sources normally used (including number)</th>
<th>Average distance from the sources (ex: &gt;250m or &lt;=250m for drinking; 10m...)</th>
<th>Water quality (ex: drinkable / fluoride / brackish / bacterial contamination / nitrates / not tested / etc...)</th>
<th>No of months during which sources can be used in a year</th>
<th>Alternative sources during dry months</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Village &quot;A&quot;</strong></td>
<td>निम्नाखाली</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Drinking</td>
<td>पेयजल जल यायािना द्वारा सलालित GLR एवं निजी स्तर पर टबवेल</td>
<td>&gt;150 m</td>
<td>टेस्ट्ड द्वारे PHED. फ्लोराइड 1.90</td>
<td>जुल्ली to जुने</td>
<td>ना</td>
</tr>
<tr>
<td>2 Livestock</td>
<td>पेयजल जल यायािना द्वारा सलालित GLR एवं निजी स्तर पर टबवेल एवं HP</td>
<td>&gt;200</td>
<td>ना टेस्ट्ड</td>
<td>जुल्ली to जुने</td>
<td>ना</td>
</tr>
<tr>
<td>3 Domestic, Commercial Institutional</td>
<td>हनीको स्तर पर टबवेल HP</td>
<td>&gt;200</td>
<td>द्रामकल्य एवं ना टेस्ट्ड</td>
<td>जुल्ली to जुने</td>
<td>ना</td>
</tr>
<tr>
<td>4 Agriculture</td>
<td>Openwell and Tubwell</td>
<td>&gt;1 km</td>
<td>इलाके, KsX; ना टेस्ट्ड PHED.</td>
<td>6 महीने</td>
<td>ना</td>
</tr>
<tr>
<td>5 Other (Industry, Power generation, Environment &amp; ecology, Leisure, etc...)</td>
<td>ना</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Village &quot;B&quot;</th>
<th>जोके&lt;</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Drinking</td>
<td>H.P पर आक्षर्त</td>
<td>&gt;100 m</td>
<td>टेस्ट्ड द्वारे PHED फ्लोराइड 1.90</td>
<td>जुल्ली to मार्च</td>
<td>टैंकर्स सलामी प्रति दिन दो टैंकर्स</td>
</tr>
<tr>
<td>2 Livestock</td>
<td>H.P. – kund</td>
<td>&gt;100 m</td>
<td>ना टेस्ट्ड</td>
<td>जुल्ली to मार्च</td>
<td>टैंकर्स सलामी प्रति दिन एक टैंकर्स</td>
</tr>
<tr>
<td>3 Domestic, Commercial Institutional</td>
<td>H.P or private open well</td>
<td>&gt;100 m</td>
<td>इलाके, KsX; ना टेस्ट्ड</td>
<td>जुल्ली to मार्च</td>
<td>टैंकर्स सलामी.</td>
</tr>
<tr>
<td>4 Agriculture</td>
<td>Rainwater and open well</td>
<td>&gt;500 m</td>
<td>ना टेस्ट्ड</td>
<td>जुल्ली to जनवरी</td>
<td>ना</td>
</tr>
<tr>
<td>5 Other (Industry, Power generation, Environment &amp; ecology, Leisure, etc...)</td>
<td>ना</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: PRA (mainly Transect walk and Focus Group Discussion)

**Notes:** Functional NF= Not functional
EU STATE PARTNERSHIP PROGRAMME-Rajasthan

3.4 Detailed analysis of DRINKING water use in GP (existing situation)

(i) Access to safe drinking water in GP

<table>
<thead>
<tr>
<th>Village</th>
<th>Total population 2011</th>
<th>Drinking water security for all is ensured throughout the year</th>
<th>Total number of people without access to safe drinking water (quantity &amp; quality) throughout the year</th>
<th>% of population lacking access to safe drinking water throughout the year (= Population lacking access / Total population)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Village “A”</td>
<td>1137</td>
<td>Quantity (Yes / No) Yes, Quality (Yes / No) Yes, Reliability (hours are known in advance and serviced) (Yes / No) Yes</td>
<td>227/1137=20 %</td>
<td>80%</td>
</tr>
<tr>
<td>Nimbara</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Village “B”</td>
<td>888</td>
<td>Yes, Yes, Yes</td>
<td>178/888=20 %</td>
<td>80%</td>
</tr>
<tr>
<td>Partapgarh</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: Estimate through PRA (Transect walk and Focus Group Discussion)

(ii) Management, O&M of existing sources and systems, current practices for water conservation and water savings

<table>
<thead>
<tr>
<th>Village</th>
<th>Ownership of main drinking water supply system (Private / Public)</th>
<th>Management and O&amp;M (ex: PHED, GP committee, private, etc...)</th>
<th>Water tariff – (Describe tariff system: who pays and how much)</th>
<th>O&amp;M activities (Appropriate / Not appropriate) – if not appropriate, describe problems</th>
<th>Potential for water savings – Describe (ex: fix leakages, avoid wastage, promote GW recharge, etc...)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Village “A”</td>
<td>public कृष्णा जल योजना (PSP, GLR)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nimbara</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>For leakage and avoid wastage</td>
</tr>
<tr>
<td>Village “B”</td>
<td>PHED HP</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partapgarh</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>For leakage and avoid wastage</td>
</tr>
</tbody>
</table>

Source: PRA (Transect walk and Focus Group Discussion)

3.5 Detailed analysis of AGRICULTURE water use in GP (existing situation)

(i) CULTIVATED AREA AND CROPS GROWN in GP area (Current year information)

<table>
<thead>
<tr>
<th>Name of the Village</th>
<th>Kharif</th>
<th>Rabi</th>
<th>Double crop</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Crop</td>
<td>Approximate Area (Hectares)</td>
<td>Crop</td>
</tr>
<tr>
<td>Nimbara</td>
<td>मक्का</td>
<td>22.69</td>
<td>गेहूँ</td>
</tr>
<tr>
<td></td>
<td>जाजार</td>
<td>100.48</td>
<td>चना</td>
</tr>
<tr>
<td></td>
<td>मूट</td>
<td>14.32</td>
<td>सरस्वता</td>
</tr>
<tr>
<td></td>
<td>दंतला</td>
<td>125.44</td>
<td>सोई</td>
</tr>
<tr>
<td></td>
<td>गायर</td>
<td>63.71</td>
<td>जोंग</td>
</tr>
<tr>
<td>Partapgarh</td>
<td>तिल</td>
<td>167.74</td>
<td>तापीघरा</td>
</tr>
<tr>
<td></td>
<td>बाजरा</td>
<td>112.90</td>
<td>जी</td>
</tr>
<tr>
<td></td>
<td>मंडी</td>
<td>124.36</td>
<td>No</td>
</tr>
<tr>
<td>GP total</td>
<td>TOTAL area Kharif 731.64 Hec.</td>
<td>TOTAL area Rabi 390.85 Hec.</td>
<td>TOTAL area Double crop No</td>
</tr>
</tbody>
</table>

Source: Patwari
### (ii) PRIMARY SOURCE OF WATER FOR CROP PRODUCTION (Current year information)

<table>
<thead>
<tr>
<th>Name of the Village</th>
<th>Total Arable land (Hectares)</th>
<th>Rainfed only (Hectares)</th>
<th>Irrigated from Ground Water (tube well, open well, etc...) (Hectares)</th>
<th>Irrigated from Surface Water (canal, pond, river, etc...) (Hectares)</th>
<th>Fallow land (Hectares)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nimbara</td>
<td>786.44</td>
<td>326.64</td>
<td>366.85</td>
<td>0</td>
<td>92.95</td>
</tr>
<tr>
<td>Partap garch</td>
<td>487</td>
<td>405</td>
<td>24</td>
<td>0</td>
<td>58</td>
</tr>
<tr>
<td><strong>GP Total</strong></td>
<td><strong>1273.44</strong></td>
<td><strong>731.64</strong></td>
<td><strong>390.85</strong></td>
<td><strong>0</strong></td>
<td><strong>150.95</strong></td>
</tr>
</tbody>
</table>

**Source: Patwari and PRA**

### (iii) Details of EXISTING IRRIGATION SYSTEMS (if any): Management, O&M, current practices for water conservation and water savings

<table>
<thead>
<tr>
<th>Name of the Village</th>
<th>Water source for irrigation (Surface water / Groundwater) + name of river / canal or total number of tubewells for irrigation, including number of dried and brackish ones</th>
<th>Ownership of main irrigation system (Private / Public)</th>
<th>Management (WUA, private, etc...)</th>
<th>Water tariff – (Describe who pays and how much)</th>
<th>O&amp;M (Appropriate / Not appropriate) – if not appropriate, describe problem</th>
<th>Use of water saving devices, such as drip &amp; sprinkler systems (Yes / No)</th>
<th>Describe Potential for water savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Narainpura</td>
<td>open well 364, F-200, NF, 164 PHED 3</td>
<td>private</td>
<td>futh</td>
<td>No tariff</td>
<td>Appropriate</td>
<td>QO0kjk jfr viukbZ tk;saAqvUn&amp;cq(Un fpkOZ jfr viukOZ tk;saA</td>
<td></td>
</tr>
<tr>
<td>Shantinagar</td>
<td>open well 24, f 10, NF 14 PHED 2 Functional</td>
<td>private</td>
<td>private</td>
<td>No tariff</td>
<td>Appropriate</td>
<td>QO0kjk jfr viukbZ tk;saAqvUn&amp;cq(Un fpkOZ jfr viukOZ tk;saA</td>
<td></td>
</tr>
</tbody>
</table>

**Source: PRA**

#### 3.6 Detailed analysis of OTHER water uses in GP (if any)

Describe other water uses (industries, environmental, etc...) found in the GP and their impact on water resources in terms of quantity (water requirement) and quality (water pollution) and their impacts on other water uses.

<table>
<thead>
<tr>
<th>Water use</th>
<th>Impact on water resources quantity (water requirements) - Describe</th>
<th>Impact on water resources quality (water pollution) – Describe</th>
<th>Impacts / conflicts with other water uses or human activities, if any - Describe</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

GP IWRM Plan format | Page: 11

\(12 - 23\)
### 3.7 Water demand in the GP (current year = 2011 and projection = 2021) (details of water demand calculations to be given in Appendix)

<table>
<thead>
<tr>
<th>Water use</th>
<th>Annual water demand (m³) in 2011</th>
<th>Annual water demand (m³) in 2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human drinking water</td>
<td>6622.56 m³</td>
<td>7416.8 m³</td>
</tr>
<tr>
<td>Livestock drinking water</td>
<td>19200.825 m³</td>
<td>20335.975 m³</td>
</tr>
<tr>
<td>Other domestic, commercial and municipal water uses</td>
<td>26490.24 m³</td>
<td>29667.2 m³</td>
</tr>
<tr>
<td>Agriculture</td>
<td>Kharif</td>
<td>00</td>
</tr>
<tr>
<td></td>
<td>Rabi</td>
<td>232886 m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>232886 m³</td>
</tr>
<tr>
<td>Power generation</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Environmental and ecological</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Industrial</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Non consumptive uses, such as cultural, leisure and tourist</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Others</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL GP ANNUAL WATER DEMAND (in m³ / year)</strong></td>
<td><strong>285199.625 m³</strong></td>
<td><strong>290305.975 m³</strong></td>
</tr>
</tbody>
</table>

Source: PRA / Detailed calculations at WRC

### 3.8 Existing sanitation and wastewater disposal systems in the GP

(i) Existing household sanitation facilities

<table>
<thead>
<tr>
<th>Name of the Village</th>
<th>Total number of households in village</th>
<th>Total number of households having latrines</th>
<th>Number of Latrines in use</th>
<th>Number of Latrines not in use (not functional, etc...)</th>
<th>Approximate % coverage with hygienic latrines (Number of latrines in use / Total number of households)</th>
</tr>
</thead>
<tbody>
<tr>
<td>निम्बाड़</td>
<td>174</td>
<td>50</td>
<td>25</td>
<td>25</td>
<td>50%</td>
</tr>
<tr>
<td>प्रतापगढ़</td>
<td>202</td>
<td>40</td>
<td>20</td>
<td>20</td>
<td>50%</td>
</tr>
<tr>
<td><strong>GP total</strong></td>
<td><strong>376</strong></td>
<td><strong>90</strong></td>
<td><strong>45</strong></td>
<td><strong>45</strong></td>
<td><strong>50%</strong></td>
</tr>
</tbody>
</table>

Source: PRA

(ii) Existing public sanitation facilities (in GP building, schools, health centres, community latrines, etc...)

<table>
<thead>
<tr>
<th>Location</th>
<th>Toilet facilities (Yes / No)</th>
<th>Functional / Not functional</th>
<th>If not functional, describe problem</th>
</tr>
</thead>
<tbody>
<tr>
<td>GP building</td>
<td>Yes/2</td>
<td>02 Functional</td>
<td>नभिंत, वाइस, गिनी, गी, फिकिक, जिक, कोड, कम, ह्वीड, गीएसअ</td>
</tr>
<tr>
<td>Schools</td>
<td>Yes/9</td>
<td>08 Functional 1 Not functional</td>
<td></td>
</tr>
<tr>
<td>Health centres</td>
<td>Yes/1</td>
<td>01 Functional</td>
<td></td>
</tr>
<tr>
<td>Other (Community latrines, etc...)</td>
<td>Yes/5</td>
<td>05 functional 50 functional 20 NF</td>
<td></td>
</tr>
<tr>
<td>GP Total</td>
<td>87</td>
<td>66 Functional 21 Not functional</td>
<td></td>
</tr>
</tbody>
</table>

GP IWRM Plan format
### (iii) Existing wastewater disposal system

<table>
<thead>
<tr>
<th>Name of the Village</th>
<th>Existing wastewater disposal system (soak pits, gutter / drains, kitchen garden, etc...) - Describe</th>
<th>Wastewater disposal is adequate (Yes / No)</th>
<th>If not, describe problem (flooding / water logging, risk of contamination of fresh water resources, etc...)</th>
<th>Needs for complete sanitation (latrine+wastewater disposal) (number and type of systems) – including new systems and rehabilitation of existing systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nimbada</td>
<td>--NO-----</td>
<td>--NO-----</td>
<td>जलाबंट पानी प्राप्त नहीं मात्र भी बाहरी प्रभावित किया जाता है। जलाबंट पानी प्राप्त नहीं मात्र भी बाहरी प्रभावित किया जाता है। इसी रूप से विस्फोटित माना गया जिसका कारण संकाय है।</td>
<td>जलाबंट के लिए समुदाय नहीं बाहरी जलाबंट नाला के साफ सफाया करेगा।</td>
</tr>
<tr>
<td>Pratapgarh</td>
<td>--NO-----</td>
<td>--NO-----</td>
<td>जलाबंट पानी प्राप्त नहीं मात्र भी बाहरी प्रभावित किया जाता है। जलाबंट पानी प्राप्त नहीं मात्र भी बाहरी प्रभावित किया जाता है। इसी रूप से विस्फोटित माना गया जिसका कारण संकाय है।</td>
<td>जलाबंट के लिए समुदाय नहीं बाहरी जलाबंट नाला के साफ सफाया करेगा।</td>
</tr>
</tbody>
</table>

**Source:** PRA

### 3.9 Community’s perception about existing water-related problems in GP

(I) Changes over time

Describe here the situation in GP 30 years ago, 15 years ago and now.

<table>
<thead>
<tr>
<th></th>
<th>30 years ago</th>
<th>15 years ago</th>
<th>Now</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rainfall</td>
<td>450mm</td>
<td>350mm</td>
<td>753mm</td>
</tr>
<tr>
<td>Groundwater level 10</td>
<td>18 m</td>
<td>21 m</td>
<td>25 m</td>
</tr>
<tr>
<td>Groundwater quality</td>
<td>अद्यावय</td>
<td>समयांग</td>
<td>फलोरियड झुका</td>
</tr>
<tr>
<td>Water sources used for drinking water</td>
<td>झुके गुरे राज्य, मलसत तालाब।Nadi</td>
<td>हंगाम म निको झुके झुके मुख्य</td>
<td>घुमन बर्बर और साहरकासर ठो झुके झुके</td>
</tr>
<tr>
<td>Number, size and functionality of surface water bodies and Traditional rainwater harvesting structures</td>
<td>लगा का तालाब ग्रामीण निर्माण, सूक्त झुका, और नाला से मुख्य और पुरूष</td>
<td>1 लगा का तालाब ग्रामीण निर्माण, सूक्त झुका, और नाला से मुख्य और पुरूष के लिए शरीर पर पानी की आपूर्ति</td>
<td>वाहिनी वर्तमान और जल भी सम्मुख पर निर्माण है।</td>
</tr>
<tr>
<td>Number of tube wells in GP area</td>
<td>-----Nil-----</td>
<td>02 PHED</td>
<td>12</td>
</tr>
<tr>
<td>Population in GP</td>
<td>1116</td>
<td>1883</td>
<td>2858</td>
</tr>
<tr>
<td>Livestock population in GP</td>
<td>6598</td>
<td>6053</td>
<td>5553</td>
</tr>
<tr>
<td>Cultivated area and type of crops grown</td>
<td>किवड़ा अंतर कमांड 20 हेक्टर चना 1 हेक्टर</td>
<td>किवड़ा 30 हेक्टर मूल 150 हेक्टर चना 125 हेक्टर सुग 155 हेक्टर चना 575 हेक्टर चना 60 हेक्टर फलोरियड 5 हेक्टर</td>
<td>किवड़ा 244 हेक्टर चना 132 हेक्टर चना 111 हेक्टर सुग 153 हेक्टर चना 73 हेक्टर 51, फलोरियड 3.5 हेक्टर</td>
</tr>
<tr>
<td>Main source of livelihood in the GP</td>
<td>किवड़ा और पुरूष परमप्राप्त व्यवहार</td>
<td>किवड़ा और पुरूष, ग्रामीणियों व्यवहार, विवादित ग्रामीणि ग्रामीणि घरेलू अन्य तालाब में पानी</td>
<td>मुख्य, विवादित ग्रामीणि, विवादित व्यवहार और झुके झुके निर्माण बनाएं अन्य रायlisted दीय में व्यवहार हेतु पानी।</td>
</tr>
</tbody>
</table>

**Source:** PRA

### (ii) Summary of encountered water and sanitation related problems in GP and suggested solutions (description)

(a) **Allocation of water for different uses** (describe how water allocation between different Water User Groups is decided and what is the system of prioritization of water uses, especially in a period of water crisis – describe existing conflicts between Water User Groups and with neighbouring GPs, if any)

**Problems:**

- **फूड मिश्रित** के Drinking Water supply में विभाजित समस्या है।
  1. गांव निवासी ने पानी के पूर्वारूप में अनुशासन नहीं किया।
  2. गांव में वर्षा का कम होना।
  3. गुटा तरह का नियम जाना एक प्रभावकार कारण है।
  4. प्लास्टिक और तर्कसारण की मांग है।

**Proposed Solutions:**

1. पानी की सरलता तथा गांव में पुरुष में समस्या बनाने।
2. घर में निर्माण किया जाए तथा बाहरी प्रभाव को रोकना।
3. पानी के लाभ को पानी के लाभ के समय जरूरत पानी को रोकने के लिए तालाब में जल का निर्माण किया जाए|
(b) Drinking water supply (quality, quantity, reliability of supply, etc.) – Describe encountered problems and what needs to be done to improve the situation

Problems:

- 1. The water supply is insufficient and does not meet the demand.
- 2. GLR systems are not functioning effectively.
- 3. GLR systems are not properly maintained.
- 4. Rainwater harvesting is not effective.

Proposed Solutions:

- 1. Increase the capacity of existing water sources.
- 2. Improve the GLR system maintenance.
- 3. Implement regular maintenance checks.
- 4. Encourage rainwater harvesting practices.

Source: PRA

(c) Sanitation – Describe encountered problems (water logging / flooding, risk of contamination of fresh water sources by wastewater, status of waterborne diseases in GP, etc...) and what needs to be done to improve the situation.

Problems:

- 1. Sanitation systems are inadequate.
- 2. Waterlogging is a common problem.
- 3. Waste disposal is ineffective.

Proposed Solutions:

- 1. Increase the number of sanitation facilities.
- 2. Implement efficient drainage systems.
- 3. Promote proper waste disposal practices.

Source: PRA

(d) Irrigation situation - Describe here the problems faced by farmers concerning water supply and what can be done to improve the situation, including how to reduce water demand for irrigation.

Problems:

- 1. Water availability is insufficient for irrigation.
- 2. Waterlogging is a common problem.
- 3. Waste disposal is ineffective.

Proposed Solutions:

- 1. Increase the number of irrigation channels.
- 2. Implement efficient drainage systems.
- 3. Promote proper waste disposal practices.

Source: PRA

Page: 14
(iii) Problem Tree

पीने के पानी की समस्या

<table>
<thead>
<tr>
<th>कारण</th>
<th>उपाय</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. प्रवाह व पुरीत में कमी।</td>
<td>1. पिरता हुआ जल सरर</td>
</tr>
<tr>
<td>2. पानी नरकवत युक्त पेयजल</td>
<td>2. पिरता हुए जल सरर को बढ़ायेंगे</td>
</tr>
<tr>
<td>3. भुज जल का सार पुरीत नीचे चल जाता</td>
<td>3. पानी नरकवत समय रखना</td>
</tr>
<tr>
<td>4. पेयजल की नियमित चलाई की समस्या</td>
<td>4. पानी नरकवत पुरीत जल का दोहर पर डांड़ी जाएं</td>
</tr>
<tr>
<td>5. पाईन लाइन ने लियें अधिक मात्रा में है</td>
<td>5. पाईन लाइन हेतु पानी की परिशिष्ट बनाएं</td>
</tr>
<tr>
<td>6. गर्मी में पुदुओं के पेयजल की किल्लत है</td>
<td>6. गर्मी में पुदुओं के पेयजल की समस्या की नियमित चलाई है</td>
</tr>
</tbody>
</table>

5. लचकता की समस्या

<table>
<thead>
<tr>
<th>कारण</th>
<th>उपाय</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. नालियों का असर है</td>
<td>1. गर्मी में पानी लद्दभ में रहा है जिससे अच्छा पानी खराब हो रहा है</td>
</tr>
</tbody>
</table>

(iv) Priority ranking

<table>
<thead>
<tr>
<th>Measures such as change in cropping pattern, Tanka, Drain Lines, Recharge structure</th>
<th>Improve water availability</th>
<th>Improve equitable distribution</th>
<th>Water Priority</th>
<th>Priority frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drinking</td>
<td>Drinking</td>
<td>Drinking</td>
<td>Drinking</td>
<td>Priority 4</td>
</tr>
<tr>
<td>Health</td>
<td>Health</td>
<td></td>
<td>Health</td>
<td>Priority 2</td>
</tr>
<tr>
<td>Ground Water</td>
<td>availability</td>
<td>Recharge</td>
<td>Priority</td>
<td>Priority 3</td>
</tr>
<tr>
<td>Agriculture</td>
<td>availability</td>
<td>New Technology</td>
<td>Priority</td>
<td>Priority 2</td>
</tr>
<tr>
<td>Livestock</td>
<td>Drinking</td>
<td></td>
<td>Priority</td>
<td>Priority 2</td>
</tr>
</tbody>
</table>

GP IWRM Plan format

(16-23)
4. PROPOSED IWRM MEASURES (technical, management, economic, social, environmental, regulatory, integrated)

**KEEP IN MIND:** IWRM measures do not necessarily include construction works! Examples of measures which can be implemented include:

- **Technical measures** (new infrastructures + repair / rehabilitation of existing structures). Technical measures should cover first rehabilitation of existing infrastructure wherever technically feasible, and creation of new facilities if required.
- **Social measures** (pro-poor, SC/ST, etc...)
- **Management measures** (new organization of Water User Groups for improved water management & conservation, revival of traditional wisdom for water management, training of WUH&SC members, awareness raising & capacity building, etc)
- **Economic measures** (water tariff, recovery of O&M costs, incentives for water saving and conservation, etc...)
- **Regulatory measures** (regulation of tube well construction and groundwater draft, regulation of wastewater disposal, etc...)

(Describe proposed IWRM measures in brief and provide necessary drawings, layouts and technical details in Appendix)

<table>
<thead>
<tr>
<th>IWRM measure</th>
<th>Description in brief - what will be done, where (village and landmark), size and main features of the proposed measure</th>
<th>No of beneficiaries (including number of SC/ST/BPL)</th>
</tr>
</thead>
</table>
| 1 Technical  | गांव निम्बाना में नदी पर एक बैलफ्लो का निर्माण किया जाए। जिससे आस-पास के कूदा का नहीं जल सत्रे बदलेंगा। | SC/ST-359  
               BPL-40 |
| 2. Technical | गांव निम्बाना में नदी से नाड़ी तक नाला निर्माण किया जाए जिससे गन्नी कि समस्या पूरा होगी तथा सकारात्मक असर होगी। | SC/ST-359  
               BPL-13  
               Gen+OBC -100 |
| 3. Technical | गांव निम्बाना में विकास कि छोटी बड़ी है जहां एक रेत वर्तर हार्मेस्टर टाका बनाया जाए जिससे छाने के पानी कि समस्या का समाधान हो सकता है तथा विकास में पेड़-पीछे के पानी कि समस्या का समाधान हो जाएगा। | Student,s |
| 4. Social   | गांव निम्बाना में लोग नदी-नाड़ी व छुले ने बीच करते है। यहां पर सार्वजनिक शैली का निर्माण आवश्यक है। इन लोगो को BPL/SC/ST की भौगलिक व गर्भावस्था की रखी गई प्रोत्साहन का लाभ मिलना ही आवश्यक है। सरकारी योजनाओं को TFC/TSE के अन्तर्गत किया गया जाए। गांव में सार्वजनिक शैली समस्या का समाधान हो सकता है। | All Community |
| 5 Technical | ग्राम मंगलता निम्बाना के प्रत्येक गड़ गांव में G.L.R. का निर्माण किया जाए। जिससे समस्या पूरी होगी जिसके से पानी कि त का समाधान हो सकता है। | All Community |
| 6 Rain gage | सहायता गांव में रखी गांव सुनहरा कैंपु एक रेनमेज लगाया जाए। | All Community |

(17-23)
## 5. ESTIMATED COSTS OF THE PROPOSED MEASURES AND FINANCING PLAN

**KEEP IN MIND:**
1. Itemized list of required material and labour with detailed Cost Estimate for each IWRM measure should be given in Appendix. Use the guidelines of the scheme used for funding in order to estimate cost of material and labour.
2. Government schemes / programmes: check relevant websites for last updates of the guidelines of available schemes and programmes.
3. Cost estimates should be prepared in agreement with the Rural BSR document issued by RD&PRD.
4. EU-SPP funds: they are meant for gap filling only. Amount available per GP is at least Rs.2 lakhs.
5. Public / private contribution: include GP own funds, local community contribution, sponsorship by an NGO or an individual, etc...

<table>
<thead>
<tr>
<th>IWRM measure</th>
<th>Total Cost (Rs.)</th>
<th>Funding Source (Labour / Material and amount in Rs)</th>
<th>Status as on Gram Sabha on 11.10.2017</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Labour</td>
<td>Material</td>
<td>Total</td>
</tr>
<tr>
<td>1. बैसकले निवृत्त प्रताप गढ़ मे नदी पर</td>
<td>75000/-</td>
<td>150000/-</td>
<td>225000/-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. नाला बनाव ग्राम स्कूल निवास मे कॉलु गढ़</td>
<td>75000/-</td>
<td>150000/-</td>
<td>225000/-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. रेत नाला निर्माण कार्य प्रताप गढ़ के भवन</td>
<td>200000/-</td>
<td>255000/-</td>
<td>455000/-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. जैसकले निवृत्त प्रताप गढ़ मे</td>
<td>32200/-</td>
<td>22600/-</td>
<td>54800/-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G.L.R. निर्माण प्रताप गढ़ के</td>
<td>60000/-</td>
<td>61000/-</td>
<td>121000/-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. रेताल निर्माण नदी चुना केंद्र पर</td>
<td>1500/-</td>
<td>3500/-</td>
<td>5000/-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>443700/-</td>
<td>642100/-</td>
<td>1085800/-</td>
</tr>
</tbody>
</table>

Source: Key informants in GP / Analysis at WRC / Technical support from Line Departments if required.
5. ESTIMATED COSTS OF THE PROPOSED MEASURES AND FINANCING PLAN

**KEEP IN MIND:**
1. Itemized list of required material and labour with detailed Cost Estimate for each IWRM measure should be given in Appendix. Use the guidelines of the scheme used for funding in order to estimate cost of material and labour
2. Government schemes / programmes: check relevant websites for last updates of the guidelines of available schemes and programmes
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5. Public / private contribution: include GP own funds, local community contribution, sponsorship by an NGO or an individual, etc...

<table>
<thead>
<tr>
<th>IWRM measure</th>
<th>Total Cost (Rs.)</th>
<th>Funding Source (Labour / Material and amount in Rs)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Labour</td>
<td>Material</td>
<td>Total</td>
</tr>
<tr>
<td>1. बैसाक्षी निर्माण प्रताप गढ़ में नदी</td>
<td>75000/-</td>
<td>150000/-</td>
<td>225000/-</td>
</tr>
<tr>
<td>2. नाला निर्माण ग्राम निगम के रूप में रेल</td>
<td>75000/-</td>
<td>150000/-</td>
<td>225000/-</td>
</tr>
<tr>
<td>3. रेनेग्रेज लाइटिंग निर्माण कर्म प्रताप गढ़ स्कूल</td>
<td>200000/-</td>
<td>255000/-</td>
<td>455000/-</td>
</tr>
<tr>
<td>4. नीलाम्ब्र निर्माण प्रताप गढ़ में</td>
<td>32200/-</td>
<td>22600/-</td>
<td>54800/-</td>
</tr>
<tr>
<td>5. क्षेत्रीय निर्माण प्रताप गढ़</td>
<td>60000/-</td>
<td>61000/-</td>
<td>121000/-</td>
</tr>
<tr>
<td>6. रेनेग्रेज लाइटिंग ग्रामीण स्कूल के संग</td>
<td>1500/-</td>
<td>3500/-</td>
<td>5000/-</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>443700/-</td>
<td>642100/-</td>
<td>1085800/-</td>
</tr>
</tbody>
</table>

Source: Key informants in GP / Analysis at WRC / Technical support from Line Departments if required

(19 - 23)
6.1 Reasons for selection of IWRM measures - why the options are given priority by Gram Sabha (describe how the proposed measures will help improving the water situation of the GP)

Ex: improve drinking water access, especially for the poor, make water use more efficient, better conserve water, reduce water pollution, etc...

1. निम्नलिखित कि नक्ता पर वेस्टार्क्स के निर्माण करने से जो पानी कट जाएगा , पीने के पानी कि समस्या का समाधान होगा तथा पु जल सर ने भी खुश होगा।
2. गौर निम्नलिखित में नहीं सदृश तक नाव निर्माण किया जाए जिससे गन्धक्षी जिससे गन्धक्षी कि समस्या दूर होगी तथा कवर बने रहेंगी।
3. यह निम्नलिखित में विश्लेषण कि छल छली है जिस एक रेम हाइलोडिंग टांक का बना जिस में विस्फोटिक कि पीने के पानी कि समस्या का समाधान होगा, तथा जिस नावों की हो वात नष्ट करना है। जिस पर सातवांत वायुस्फोट की निर्माण किया जाए जिससे चमकी जिससे चमकी कि समस्या का समाधान हों जाएगा।
4. गौर निम्नलिखित के प्राप्त गाँव गौर में G.L.R. का निर्माण किया जाएगा। जिससे पुरे गाँव में पीने के पानी कि समस्या का समाधान हो सकता है।

Note: Attach in Appendix a minutes of the Gram Sabha meeting held for selection of IWRM measures, covering options presented by the NGO, queries raised by community members, decisions taken, attendance record. Also attach resolution of Gram Sabha approving the final IWRM plan.

6.2 Local community financial contribution to funding of IWRM measures – Describe who will contribute to the funding of IWRM measures, how (financial, labour) and how much (refer to column “Public/Private contribution” from Section 5. Table for total amount to be collected for each measure)

प्राप्त के मुख्य उद्देश्य वेस्टार्क्स निर्माण व्यापारी मांग से पहले भी मान्यता का निर्माण का निर्माण करने में गाय के लोगों ने सहयोग के रूप में सहयोग देने में सहभागी गये तथा इस निर्माण का सहयोग देने के लिए वृद्ध गृहीत है।

6.3 Availability of land for construction of facilities (if required) – Describe if the land required for new infrastructure is Common or private land and how and when it will be made available. If some facilities are to be constructed on a private land, written approval from land owner with date of availability of the land should be given in Appendix

मान्यता गाँव के लोगों द्वारा ही पानी के साधन के तहत आवश्यकता प्रकाशन पर जमीन एवं ग्राम श्रम के रूप में सहयोग दिया जाएगा।

6.4. Management and O&M of selected IWRM measures

<table>
<thead>
<tr>
<th>IWRM measure</th>
<th>Water User Group or VWH&amp;S member in charge</th>
<th>Operation and Maintenance</th>
<th>O&amp;M cost estimate (Rs/year)</th>
<th>Who will be responsible for O&amp;M</th>
<th>Who will pay for O&amp;M costs (community contribution, GP own funds, government scheme, etc...)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. निर्मित गाँव</td>
<td>G.P. and VWS&amp;SC Members</td>
<td>Yes</td>
<td>Need for quality construction and help</td>
<td>VWH&amp;SC Comitee &amp; G.P.</td>
<td>Gram Panchayat</td>
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<td>2. निर्मित गाँव</td>
<td>G.P. and VWS&amp;SC Members</td>
<td>Yes</td>
<td>Need for quality construction and help</td>
<td>VWH&amp;SC Comitee &amp; G.P.</td>
<td>Gram Panchayat</td>
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<tr>
<td>3. निर्मित गाँव</td>
<td>G.P. and VWS&amp;SC Members</td>
<td>Yes</td>
<td>Need for quality construction and help</td>
<td>VWH&amp;SC Comitee &amp; G.P.</td>
<td>Gram Panchayat</td>
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<td>4. निर्मित गाँव</td>
<td>G.P. and VWS&amp;SC Members</td>
<td>Yes</td>
<td>Need for quality construction and help</td>
<td>VWH&amp;SC Comitee &amp; G.P.</td>
<td>Gram Panchayat</td>
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<tr>
<td>5. G.L.R. निर्मित</td>
<td>G.P. and VWS&amp;SC Members</td>
<td>Yes</td>
<td>Need for quality construction and help</td>
<td>VWH&amp;SC Comitee &amp; G.P.</td>
<td>Gram Panchayat</td>
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</table>

Page: 18
यूरोपियन यूपियन राज्य सहभागिता कार्यक्रम, राजस्थान
एकक्षेत्र जल संसाधन प्रबंधन संशोधनित कार्ययोजना

ग्राम पंचायत का नाम— निम्बाड़ा
पंचायत समिति—रानी, जिला—पाली

ग्राम समा द्वारा प्रस्ताव अनुमोदित दिनांक—11.10.2017
प्रस्ताव संख्या—05
ग्राम पंचायत से अनुरोध से दिनांक—11.10.2017

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<tr>
<th>क्रमांक</th>
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<th>अनुमानित लागत</th>
<th>वित्तीय पोषिति</th>
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<tr>
<td>1.</td>
<td>बेस फलो निर्माण ग्राम— निम्बाड़ा शामशान घाट पर जाने वाले रास्ते पर</td>
<td>3.00 लाख रु.</td>
<td>यूरोपियन यूपियन राज्य सहभागिता कार्यक्रम</td>
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<td>2.</td>
<td>जीएलआर का निर्माण ग्राम निम्बाड़ा मेघवालों के मोहल्ले में तालाब के पास</td>
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<td>3.</td>
<td>ग्राम— निम्बाड़ा में नई आबादी में नाली का निर्माण लम्बाई अनुमानित—1200 मी.</td>
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नोट: विस्तृत कार्ययोजना ग्राम पंचायत विकास कार्य योजना 2017–18 (Gram Panchayat Development Plan, GPDP) ग्राम समा द्वारा स्वीकृत एवं अनुमोदित है। यहां पर मात्र यूरोपियन यूपियन राज्य सहभागिता कार्यक्रम द्वारा पोषित कार्य की विस्तृत विशेषता बनाने हेतु एवं बजट उपलब्ध होने पर कार्य अविलंब शुरू किया जा सकें। इसलिए अलग से लिया गया है।

(21-22)
<table>
<thead>
<tr>
<th>IWRM Measure</th>
<th>Total Cost (Rs.)</th>
<th>Funding Source</th>
<th>Labour</th>
<th>Material</th>
<th>Total</th>
<th>EU-SPP</th>
<th>Public/Private Contribution</th>
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</tbody>
</table>

(22-23)
DECLARATION REFLECTING BINDING NATURE OF IWRM PLAN AND COMMITMENTS MADE THEREIN:

Approval of Gram Sabha

Certified that this Integrated Water Resources Management Plan was presented to, discussed and approved by the Gram Sabha in the meeting held on 11.10.17. Out total 2600 voters / members, 2350 voters / members were present for the Gram Sabha. Out the present members 10% were women members.

Date: 11.10.17

Chairperson – Gram Sabha

Woman Member – Gram Sabha

1. GP Map (Nazari Naksha) showing existing and proposed facilities/infrastructure related to all water uses within Gram Panchayat area.
2. Map showing:
   - Drinking water serviced/not serviced areas, proposed IWRM measures and beneficiaries from SC/ST/BPL.
   - Irrigation supplied areas, proposed IWRM measures and beneficiaries from SC/ST/BPL.
   - Water contamination prone areas, proposed IWRM measures and beneficiaries from SC/ST/BPL Planned sanitation facilities
3. Water availability calculations
4. Water demand calculations
5. Tentative details and rough sketch of each proposed IWRM measure with itemized list of required material and labour
6. Photocopy of GP Bank Account details
7. Details of VWH&SC and Gram Sabha meetings held (Date / Purpose of meeting / Issues discussed / Members present)
8. Other relevant reports, statements etc.

EU STATE PARTNERSHIP PROGRAMME-Rajasthan GP IWRM PLAN

Chairperson – VWH&SC
Female Member – VWH&SC
Team Leader – NGO

Approval of Gram Panchayat

Certified that this IWRM Plan was discussed and approved by the Gram Sabha held on 11/10/2017. Village hereby agrees to submit this IWRM Plan approved by the Gram Sabha to the District IWRM Team for approval.

Date: 11/10/17

Chairperson – Gram Panchayat

Woman Member – Gram Panchayat

(23-23)