

Water Security Plan Report

Date : 30-09-2023 Time : 2:41 PM User Name : xen.ataljal@gmail.com

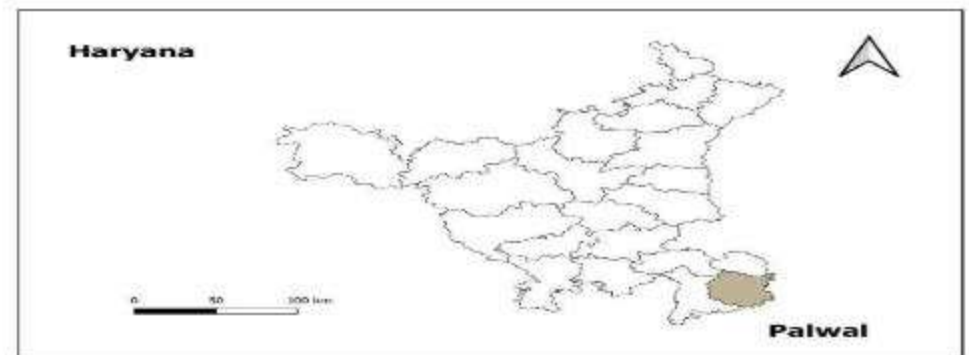
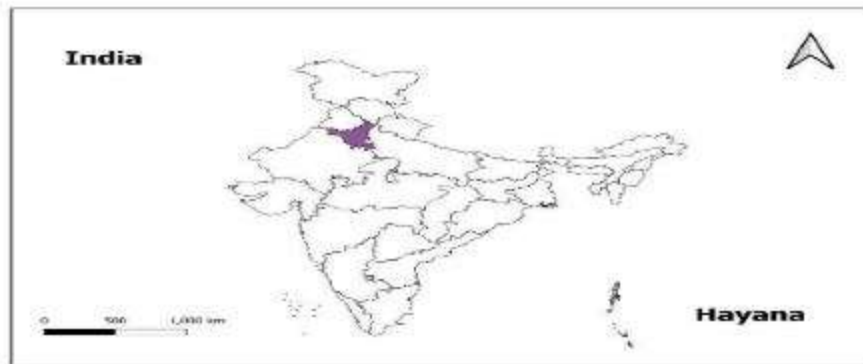
STATE: HARYANA_6 » DISTRICT: PALWAL_619 » BLOCK: HATHIN_466 » GRAM PANCHAYAT: NAGAL JAAT_28827 » YEAR: 2023-24 »

Gram Panchayat Information

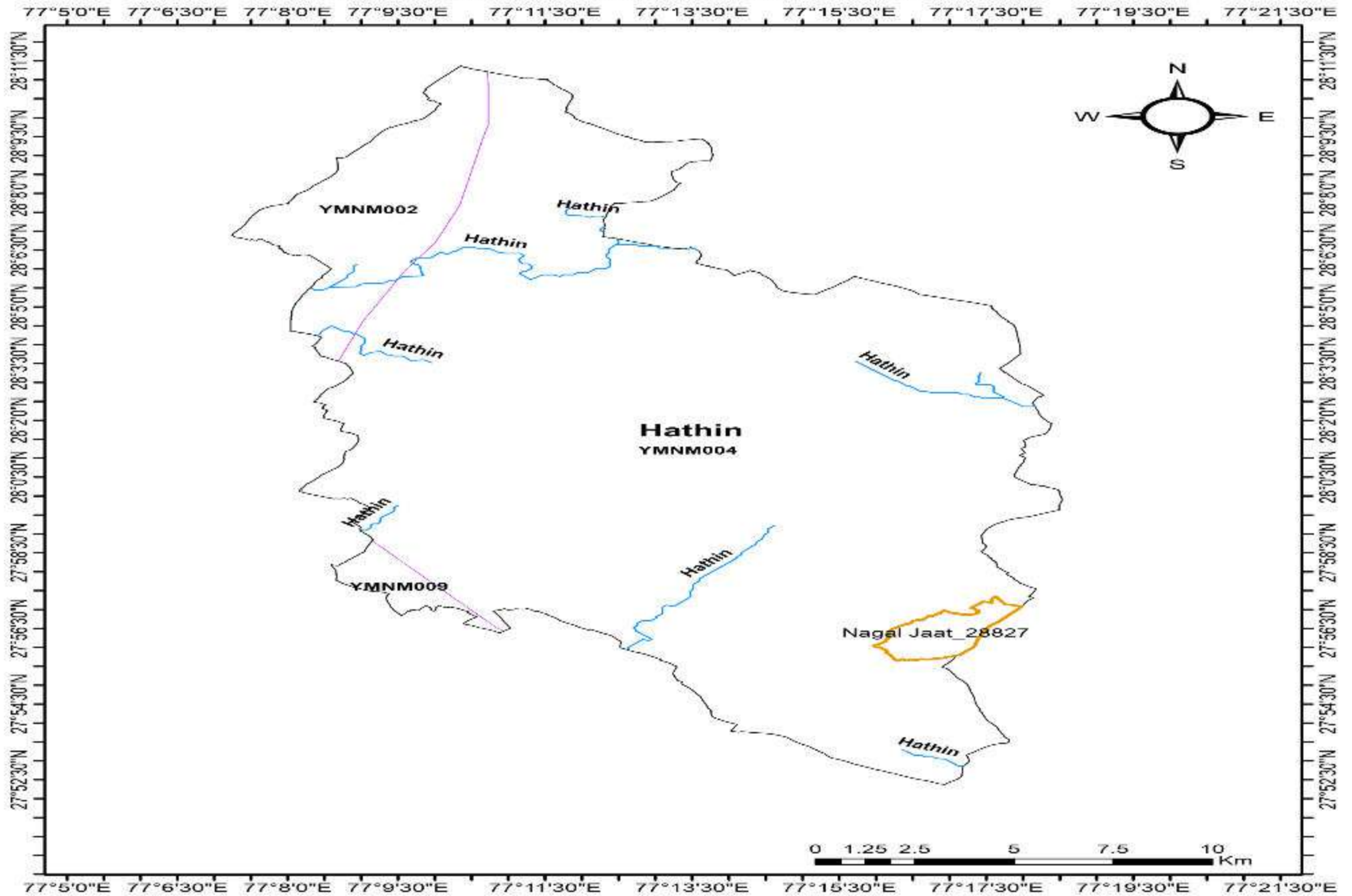
| | | | |
|------------------|------------|--|---|
| State: | Haryana_6 | District: | Palwal_619 |
| Block / Taluk : | Hathin_466 | GP Name : | Nagal Jaat_28827 |
| GP ID : | 28827 | Block Area (Ha) : | 35990.49 |
| GP area (Ha) : | 467.00 | Watershed Code : | YMNM004 |
| Watershed name : | Yamuna | Watershed area in Block / Taluk (Ha) : | 244653.04 |
| Sub-basin Code : | 2a | Sub basin name : | Yamuna Middle (Confluence with Chambal to Hindon) |
| Basin Code : | 2C | Basin Name : | Yamuna |

Location Map

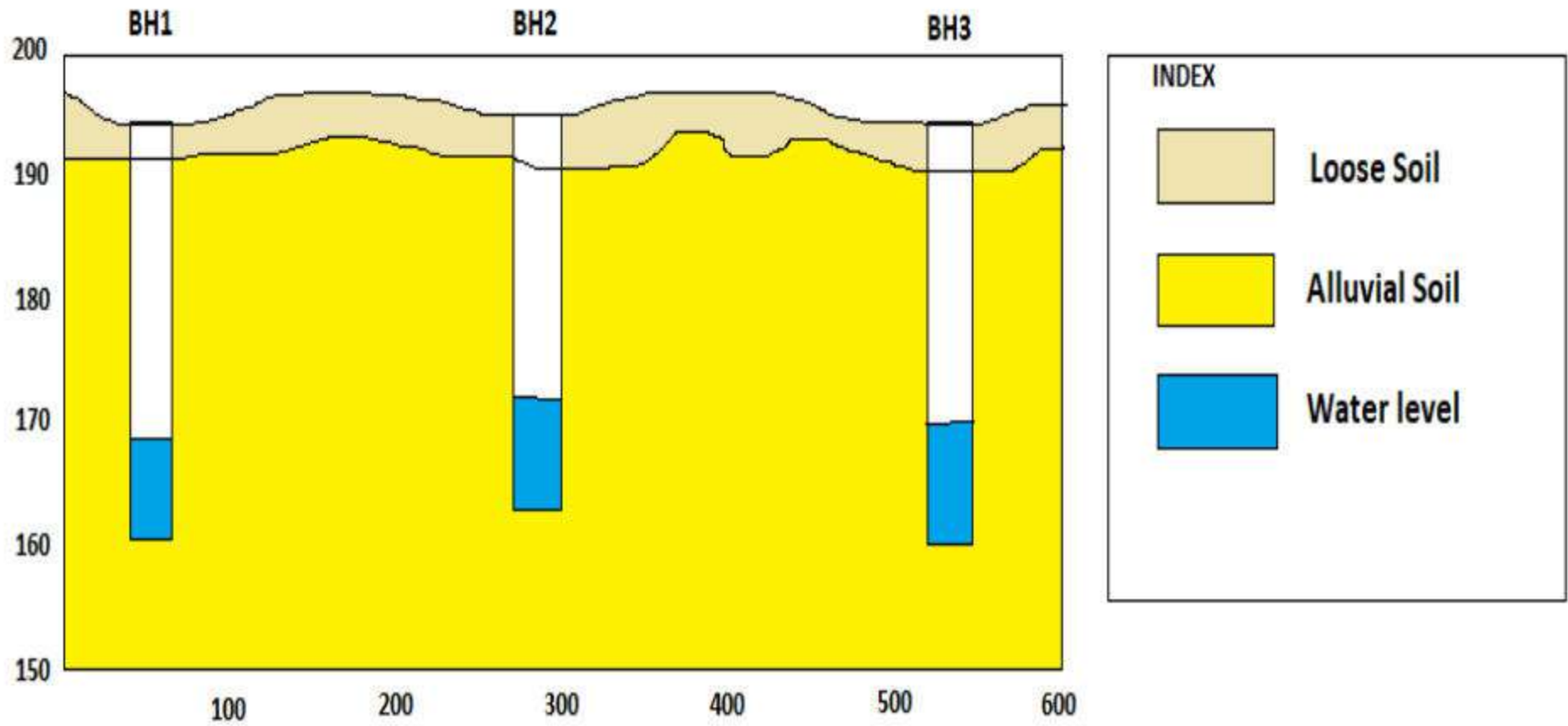
Location map: Nangal Jat Gram Panchayat, Hathin Block, Palwal District, Haryana



Nangal Jaat: Drainage & Watershed Map



Aquifer map: Nangal Jat Gram Panchayat, Hathin Block, Palwal District, Haryana



Ground Water Level

| S.No. | Site Name | Location Details | Latitude | Longitude | Date | Well ID | Type of Well | Other Well Type | Ownership Type | Government Source | Diameter of well(m) | Depth of Well(mbmp) | Height of Measuring Point (mbgl) | Water Level (mbgl) | Water Level Date |
|-------|------------|------------------|----------|-----------|---------|------------|--------------|-----------------|----------------|-------------------|---------------------|---------------------|----------------------------------|--------------------|------------------|
| 1 | NANGAL JAT | Sarpanch house | 27.94283 | 77.28106 | 14:28.7 | 028827-001 | Bore Well | null | Private | null | 0.15 | 33 | 0.1 | 17.9 | 26-04-23 |
| | NANGAL JAT | Sarpanch house | 27.94283 | 77.28106 | 14:28.7 | 028827-001 | Bore Well | null | Private | null | 0.15 | 33 | 0.1 | 17.95 | 26-06-23 |
| | NANGAL JAT | Sarpanch house | 27.94283 | 77.28106 | 14:28.7 | 028827-001 | Bore Well | null | Private | null | 0.15 | 33 | 0.1 | 16.92 | 23-08-23 |
| | NANGAL JAT | Sarpanch house | 27.94283 | 77.28106 | 14:28.7 | 028827-001 | Bore Well | null | Private | null | 0.15 | 33 | 0.1 | 17.8 | 23-05-23 |
| | NANGAL JAT | Sarpanch house | 27.94283 | 77.28106 | 14:28.7 | 028827-001 | Bore Well | null | Private | null | 0.15 | 33 | 0.1 | 16.9 | 24-09-23 |
| | NANGAL JAT | Sarpanch house | 27.94283 | 77.28106 | 14:28.7 | 028827-001 | Bore Well | null | Private | null | 0.15 | 33 | 0.1 | 17 | 25-07-23 |

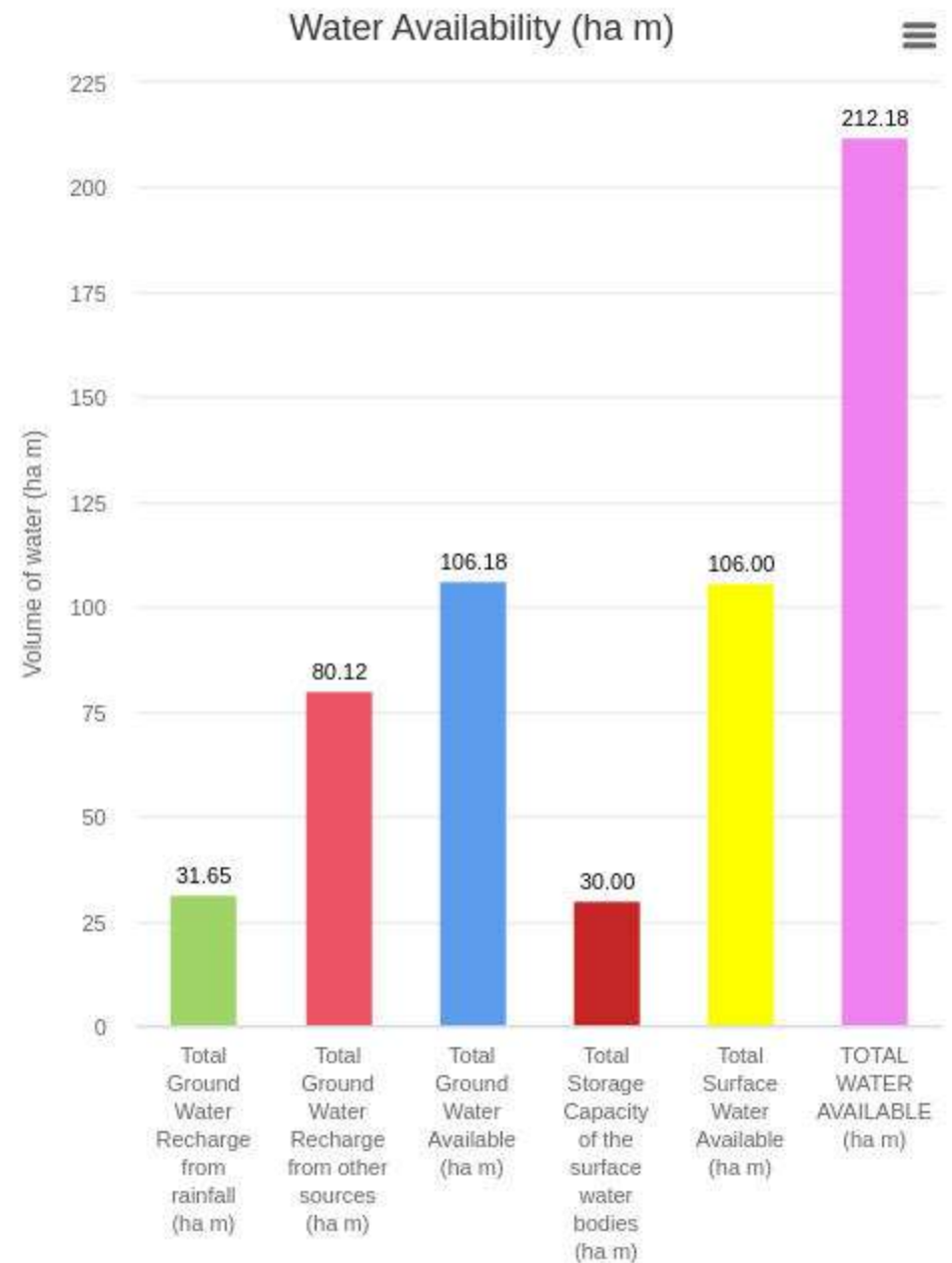
Ground Water Quality

| S.No. | Village Name | Location | Latitude | Longitude | Year | Well Type | Source | Well ID |
|-------|--------------|-----------|-----------|-----------|------|-----------|--------|-----------------|
| 1 | NAGAL JAT | NAGAL JAT | 27.946424 | 77.284813 | 2022 | Tube Well | I&WRD | PAL/HAT/NAN/001 |
| 2 | NAGAL JAT | NAGAL JAT | 27.946638 | 77.285347 | 2022 | Tube Well | I&WRD | PAL/HAT/NAN/002 |

| S.No. | Well ID | Well Depth (mbgl) | Aquifer | PH | EC (µS/cm) | TDS (mg/L) | TH (mg/L) | Ca (mg/L) | Mg (mg/L) | Na (mg/L) | K (mg/L) | Carbo nate (mg/L) | Bicar bonate (mg/L) | Sulph ate (mg/L) | Chlor ide (mg/L) | Fluo ride (mg/L) | Nitr ate (mg/L) |
|-------|-----------------|-------------------|----------|-----|------------|------------|-----------|-----------|-----------|-----------|----------|-------------------|---------------------|------------------|------------------|------------------|-----------------|
| 1 | PAL/HAT/NAN/001 | 18 | ALLUVIAL | 7.4 | 6400 | 3840 | 1710 | 40 | 391.2 | 560 | 7 | 0 | 210 | 608 | 1420 | 0.99 | 29 |
| 2 | PAL/HAT/NAN/002 | 18 | ALLUVIAL | 7.4 | 7460 | 4476 | 1400 | 88 | 286 | 682 | 7.9 | 0 | 252 | 590 | 1632 | 1.1 | 33 |

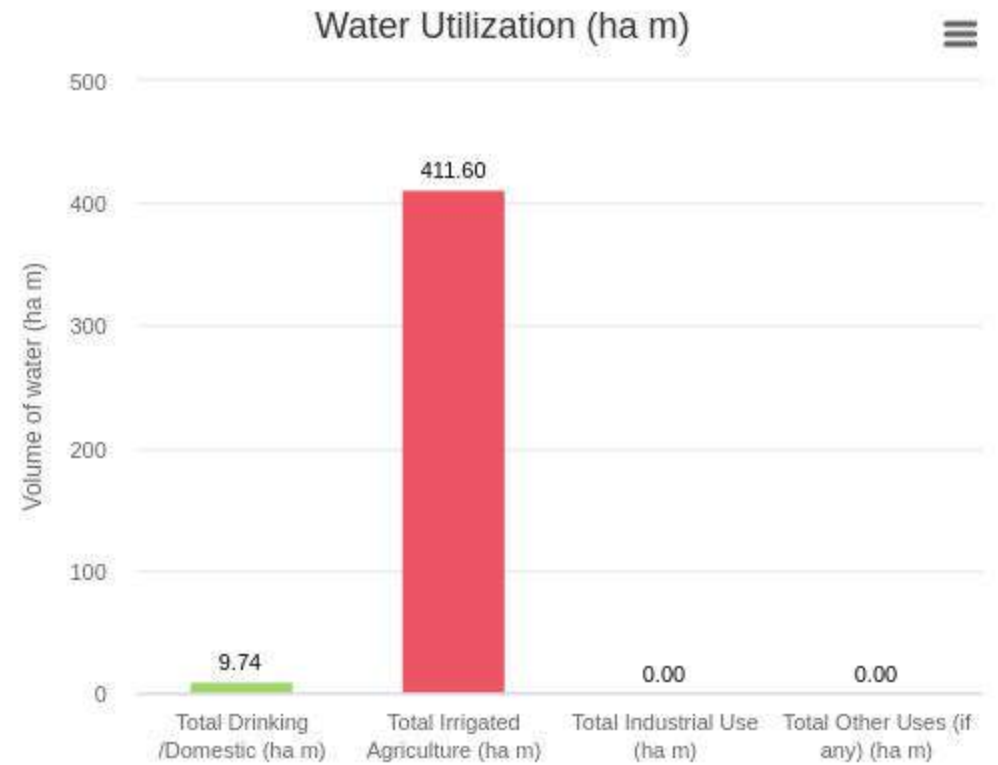
Water Availability Report

| Water Availability | | |
|--------------------|--|-------------------------|
| 1. | Total Available Water From Rainfall | |
| a. | Annual Rainfall (mm) | 675.80 |
| b. | Estimated Volume of Rainfall (ha m) | 315.60 |
| c. | Evapotranspiration rate (mm) | 378.43 |
| d. | Estimated Evapotranspiration losses (ha m) | 176.73 |
| e. | Estimated Water Available From Rainfall (ha m) | 138.87 |
| f. | Weighted Average Runoff Coefficient | 0.30 |
| g. | Rainfall Runoff(ha m) | 41.66 |
| 2. | Ground Water | |
| a. | Recharge From Rainfall (ha m) | |
| (i) | Monsoon | 31.28 |
| (ii) | Non-Monsoon | 0.37 |
| | Total Ground Water Recharge from rainfall (ha m) | 31.65 |
| b. | Ground Water Recharge from other sources (ha m) | |
| (i) | Monsoon | 36.07 |
| (ii) | Non-Monsoon | 44.05 |
| | Total Ground Water Recharge from other sources (ha m) | 80.12 |
| c. | Losses Due to Natural Discharge (ha m) | 5.59 |
| | Total Ground Water Available (ha m) | 106.18 |
| d. | Ground Water Withdrawal (ha m) | 68.86 |
| 3. | Surface Water | |
| a. | Surface Water available in storages | |
| (i) | Number of Surface Water Bodies and Storage Capacity (ha m) | |
| Type of Structures | No. of Structures | Storage Capacity (ha m) |
| Ponds | 5 | 30 |
| | Total Storage Capacity of the surface water bodies (ha m) | 30.00 |
| (ii) | Losses if Any (%) | 30.00 |
| (iii) | Surface Water Available in Storages (ha m) | 21.00 |
| b. | Transported Water from outside GP area (ha m) | |
| | Total Surface Water Available (ha m) | 106.00 |
| 4. | TOTAL WATER AVAILABLE | |
| | TOTAL WATER AVAILABLE (ha m) | 212.18 |



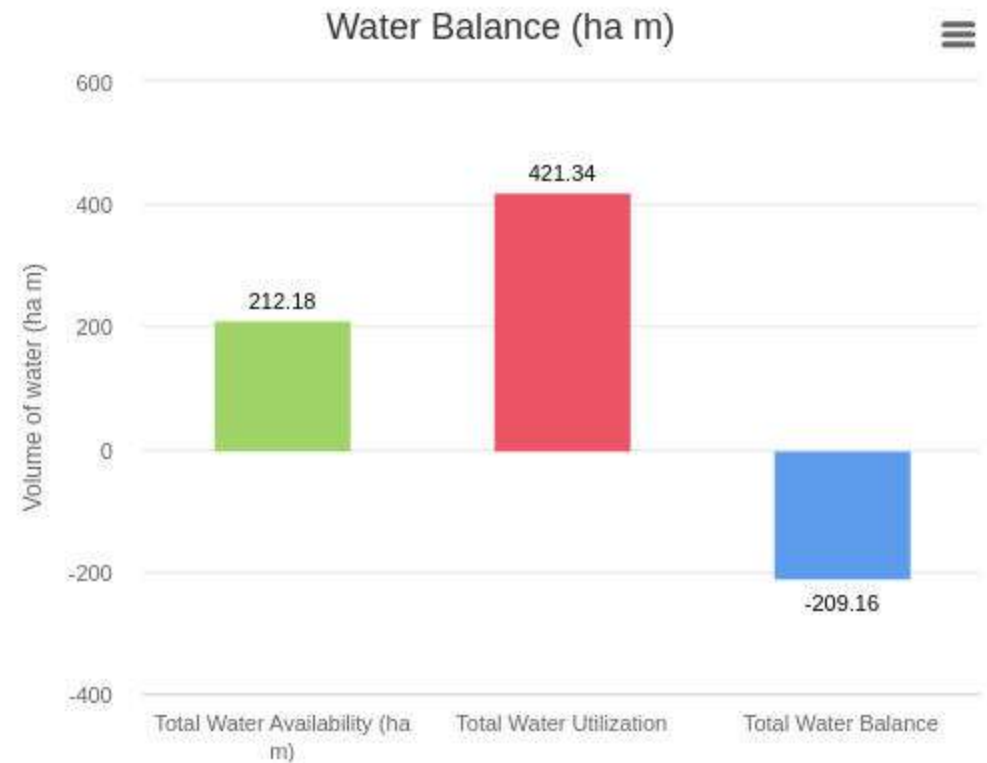
Water Utilization Report

| Water Utilization | | |
|-------------------|---|--------|
| A | Drinking /Domestic (ha m) | |
| i) | From Surface Water | 0.00 |
| ii) | From Ground Water | 9.74 |
| | Total Drinking /Domestic (ha m) | 9.74 |
| B | Irrigated Agriculture (ha m) | |
| i) | From Surface Water | 102.90 |
| ii) | From Ground Water | 308.70 |
| | Total Irrigated Agriculture (ha m) | 411.60 |
| C | Industrial Use (ha m) | |
| i) | From Surface Water | 0.00 |
| ii) | From Ground Water | 0.00 |
| | Total Industrial Use (ha m) | 0.00 |
| D | Other Uses (if any) (ha m) | |
| i) | From Surface Water | 0.0000 |
| ii) | From Ground Water | 0.0000 |
| | Total Other Uses (if any) (ha m) | 0.0000 |



Water Balance Report

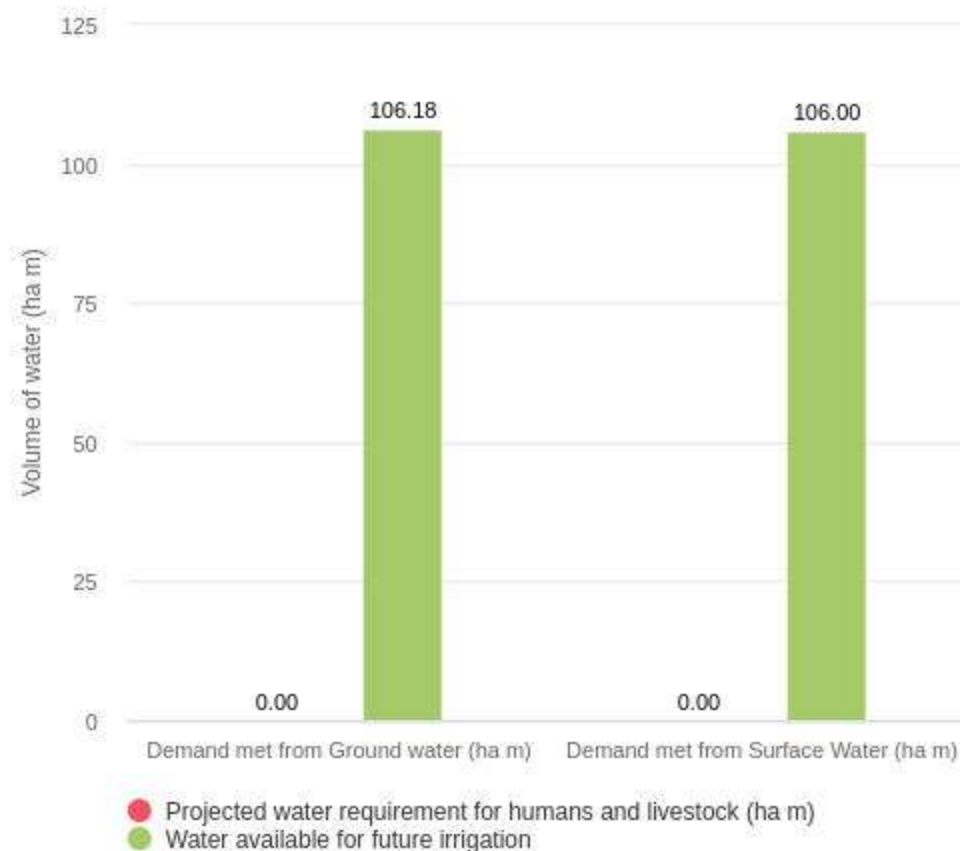
| Water Balance | | |
|---------------|--|---------|
| A | Water Availability (ha m) | |
| i) | Total Ground Water Available | 106.18 |
| ii) | Total Surface Water Available | 106.00 |
| | Total Water Availability (ha m) | 212.18 |
| B | Water Utilization (ha m) | |
| i) | Total Surface Water Utilization | 102.9 |
| ii) | Total Ground Water Utilization | 318.44 |
| | Total Water Utilization | 421.34 |
| C | Balance [Surplus (+) / Deficit (-)] | |
| i) | Total Ground Water Balance | -212.26 |
| ii) | Total Surface Water Balance | 3.10 |
| | Total Water Balance | -209.16 |



Water Budget Report

| A Allocation for Drinking & Domestic Requirements | |
|---|---------|
| I Humans | |
| i) Present Human Population | 4851.00 |
| ii) Annual population growth rate (r) | 1.20 |
| iii) No. of years | 28.00 |
| iv) Projected human population (as in 2050) | 6775.00 |
| v) Per capita requirement (L) | 55.00 |
| vi) Projected water requirement for humans (as in 2050) (ha m) | 13.60 |
| II Livestock | |
| i) Present livestock population | 0.00 |
| ii) Annual population growth rate (r) | 1.05 |
| iii) No. of years | 28.00 |
| iv) Projected livestock population (as in 2050) | 0.00 |
| v) Average per capita requirement (L) | |
| vi) Projected water requirement for livestock (as in 2050) (ha m) | |
| B Projected water requirement for humans and livestock (ha m) (as in 2050) | |
| Total Projected water requirement for humans and livestock (as in 2050) (ha m) | 13.60 |
| i) Proposed share to be met from Ground water (in %) | 100.00 |
| ii) Proposed share to be met from Surface water (in %) | 0.00 |
| iii) Demand met from Ground water (ha m) | |
| iv) Demand met from Surface water (ha m) | |
| C Water available for future irrigation | |
| i) Ground Water | 106.18 |
| ii) Surface water | 106.00 |
| iii) Total water available for future irrigation | 212.18 |

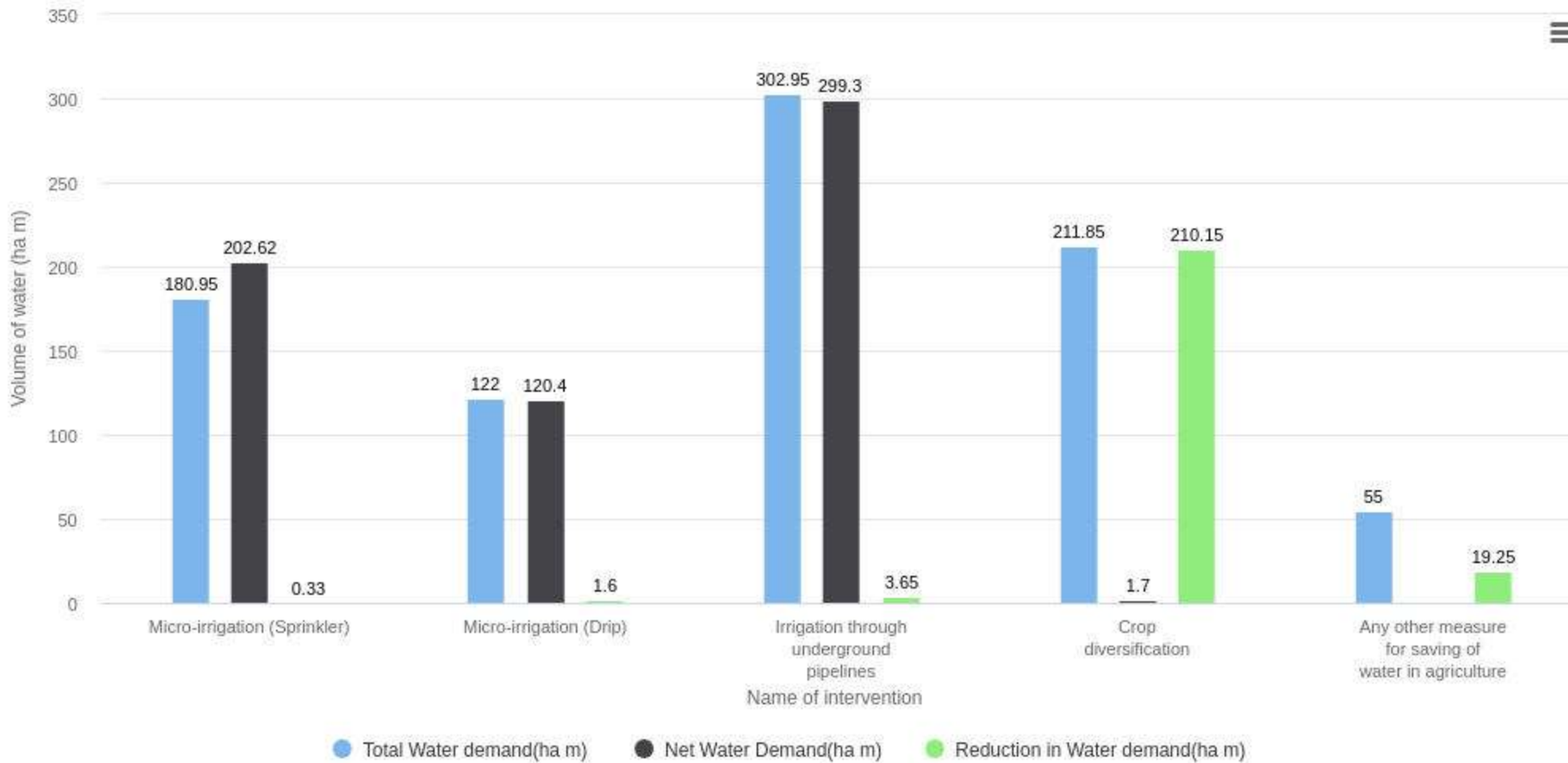
Projected Water Budget for future use (for year 2050) ☰



Demand Side

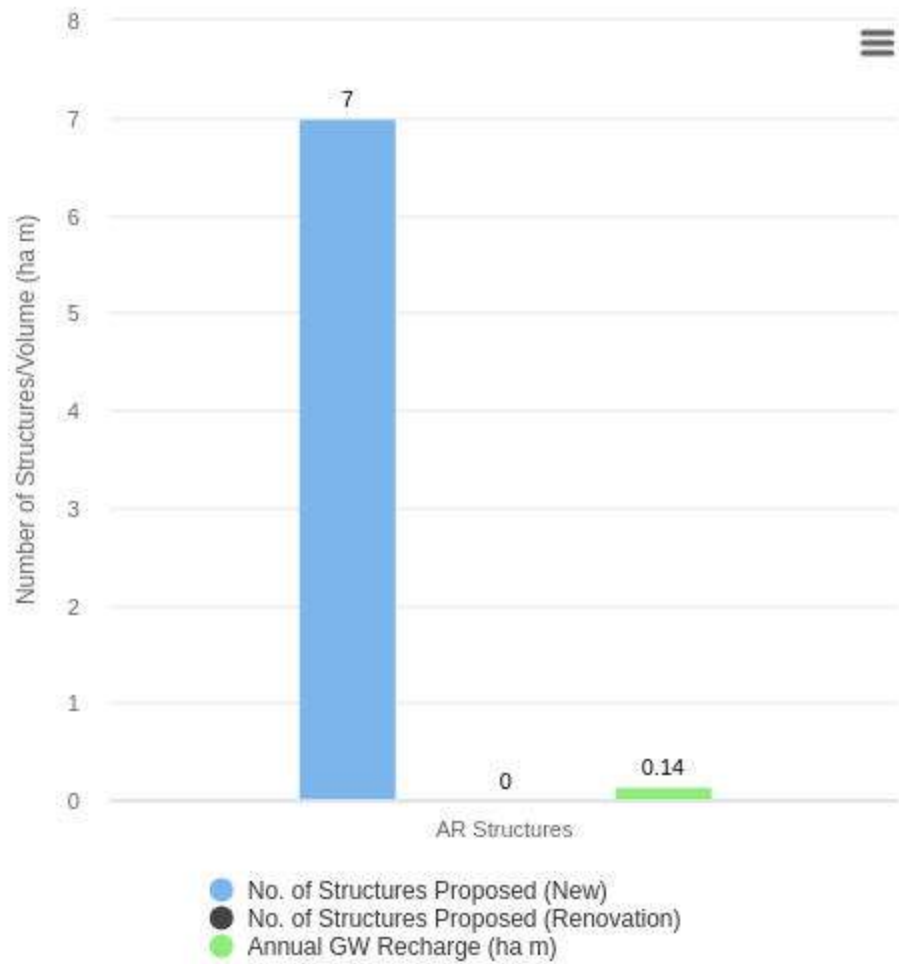
| Demand Side | | | | | | |
|-------------|----------------------|-------------------|--------------------------|------------------------|---------------------------------|---------------------------|
| Sr No | Name of Intervention | Proposed Area(ha) | Total Water demand(ha m) | Net Water Demand(ha m) | Reduction in Water demand(ha m) | Approximate cost(in lakh) |
| 1 | Sprinkler | 2.00 | 180.95 | 202.62 | 0.33 | 2.03 |
| 2 | Drip | 4.00 | 122.00 | 120.40 | 1.60 | 4.06 |
| 3 | Pipelines | 25.00 | 302.95 | 299.30 | 3.65 | 15.00 |
| 4 | Crop Diversification | 4 | 211.85 | 1.70 | 210.15 | 0.70 |
| 5 | Other Measures | 100.00 | 55.00 | -- | 19.25 | 5.00 |
| | Total | 135.00 | 872.75 | 624.02 | 234.98 | 26.79 |

| Funding Source | | | | | | |
|----------------|----------------------|--------------------|----------------|---|-------------------------------------|---------------------------|
| Sr No | Name of Intervention | Area Proposed (ha) | Financial Year | Department Name | Scheme Name | Approximate Cost(in Lakh) |
| 1 | Sprinkler | 2 | 2023-24 | MICADA | PMKSY | 2.03 |
| 2 | Drip | 4 | 2023-24 | MICADA | PMKSY | 4.06 |
| 3 | UG Pipelines | 25 | 2023-24 | Agriculture Soil & Conservation Office | Rashtriye Krishi VikasYoajan (RKVY) | 15 |
| 4 | Crop Diversification | 4 | 2023-24 | Agriculture & Farmer Welfare Department | Mera Pani Meri Virasat(MPMV) | 0.7 |
| 5 | Other Measures | 100 | 2023-24 | Agriculture & Farmer Welfare Department | Other | 5 |
| | Total | 135 | | | | 26.79 |

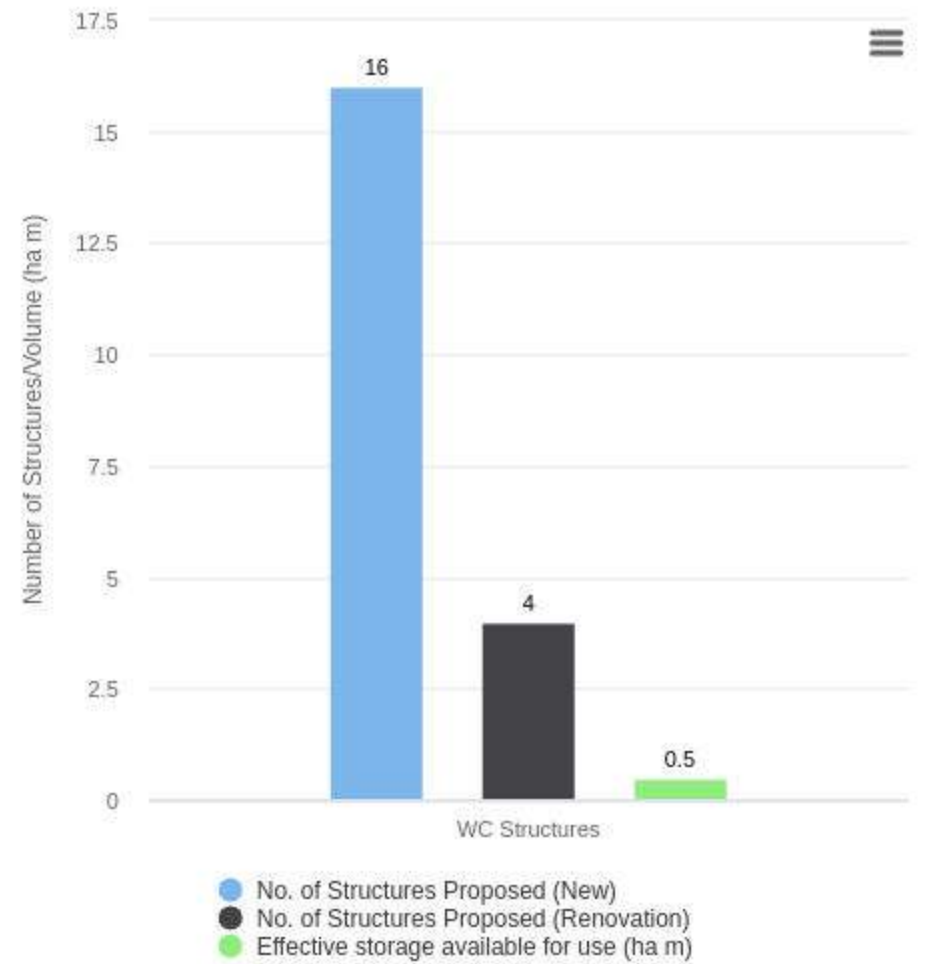


| Supply Side (Water Conservation Structures) | | | | | | | | | | |
|---|--------------------------------|------------------------|--|-----------------|-----------|-----------|----------------|---|---------------------------|-----------------------------|
| SR No | Name of Structure | Storage Capacity(ha m) | Effective storage available for use (ha m) | Village Name | Latitude | Longitude | Financial Year | Department Name | Scheme Name | Approximate Cost (in Lakhs) |
| 1 | Pond/Amrit Sarovar(Renovation) | 2.4 | 0.14 | Nangal Jat(286) | 27.945439 | 77.281411 | 2023-24 | Rural Department and Panchayati Raj | Amrit Sarovar | 24 |
| 2 | Tanka(New) | 0.02 | 0.00 | Nangal Jat(286) | 27.94288 | 77.27963 | 2023-24 | Irrigation & Water Resource Development | Other - atal bhujal yojna | 0.98 |
| 3 | Tanka(New) | 0.02 | 0.00 | Nangal Jat(286) | 27.943431 | 77.282306 | 2023-24 | Irrigation & Water Resource Development | Other - atal bhujal yojna | 0.98 |
| 4 | Tanka(New) | 0.02 | 0.00 | Nangal Jat(286) | 27.942498 | 77.279238 | 2023-24 | Irrigation & Water Resource Development | Other - atal bhujal yojna | 0.98 |
| 5 | Tanka(New) | 0.02 | 0.00 | Nangal Jat(286) | 27.943075 | 77.282668 | 2023-24 | Irrigation & Water Resource Development | Other - atal bhujal yojna | 0.98 |
| 6 | Tanka(New) | 0.02 | 0.00 | Nangal Jat(286) | 27.942862 | 77.282919 | 2023-24 | Irrigation & Water Resource Development | Other - atal bhujal yojna | 0.98 |
| 7 | Tanka(New) | 0.02 | 0.00 | Nangal Jat(286) | 27.943866 | 77.283442 | 2023-24 | Irrigation & Water Resource Development | Other - atal bhujal yojna | 0.98 |
| 8 | Tanka(New) | 0.02 | 0.00 | Nangal Jat(286) | 27.944914 | 77.280646 | 2023-24 | Irrigation & Water Resource Development | Other - atal bhujal yojna | 0.98 |
| 9 | Tanka(New) | 0.02 | 0.00 | Nangal Jat(286) | 27.942062 | 77.282245 | 2023-24 | Irrigation & Water Resource Development | Other - atal bhujal yojna | 0.98 |
| 10 | Tanka(New) | 0.02 | 0.00 | Nangal Jat(286) | 27.941689 | 77.282587 | 2023-24 | Irrigation & Water Resource Development | Other - atal bhujal yojna | 0.98 |

Supply Side (Artificial Recharge Structures)



Supply Side (Water Conservation Structures)



PGWM Committee

| PGWM Committee (VWSC/WUA/CBO) | | | | |
|-------------------------------|-------------------------------|-------------|--------|----------------------|
| Sr.no | Name | Designation | Gender | Mobile /Landline No. |
| 1 | TEKCHAND | chairperson | Male | 9467735654 |
| 2 | MANOJ KUMAR | member | Male | 8053145477 |
| 3 | MAMTA | member | Female | 9728410084 |
| 4 | AMITA KUMARI | member | Female | 8708233839 |
| 5 | SNEHLATA | member | Female | 8607507349 |
| 6 | MEERA DEVI | member | Female | 9671911577 |
| 7 | Harbati | member | Female | 9991412583 |
| 8 | REKHA RANI | member | Female | 9817189218 |
| 9 | RAJVATI | member | Female | 9812403102 |
| 10 | MANIRAM | member | Male | 7027278487 |
| 11 | DHANPATI | member | Male | 8930890705 |
| 12 | BIRPAL | member | Male | 9813000279 |
| 13 | SATBIR SINGH | member | Male | 7988050163 |
| 14 | SACHIN | member | Male | 8607172709 |
| 15 | SH. MOHD. ARIF HUSSAIN ANSARI | member | Male | 9466602786 |
| 16 | dharmender | secretary | Male | 9255541332 |

Details of PGWM Meeting in which resolution was passed

| Sr.no | State | District | Block | Gram Panchayat | Date | GP Name | Village Name | Meeting Location | Male | Female | Transgender | Total number of attendees |
|-------|-----------|------------|------------|------------------|------------|------------------|-----------------|---------------------|------|--------|-------------|---------------------------|
| 1 | Haryana_6 | Palwal_619 | Hathin_466 | Nagal Jaat_28827 | 2023-09-07 | Nagal Jaat_28827 | Nangal Jat(286) | sarpanch ki baithak | 15 | 8 | 0 | 23 |

Photograph



📷 Note cam lite

Address : Nangal Jat,Haryana,India

Latitude : 27.94358253479004°

Longitude : 77.2821044921875°

Altitude : 195.0 meter

Date : 09/07/2023 06:03 pm

Accuracy : 1.0 meter

Time zone : IST

Note : nangal jaat meeting

Annexure -II

DPMU DECLARATION

I, MOHIT VASHISTA (Name), Y.P.N
(Designation), authorized representative under District Program Management Unit
(DPMU) declare that the Water Security Plan (WSP) submitted for the
Nagal Jat Gram Panchayat,
Hathin Block/Taluk, Palwal District is
complete in all respect.

It is hereby confirmed that the Minutes of community-level Meeting and Resolution attached
are in order and signed by authorized signatories.


Executive Engineer
Palwal Water Services Division
PALWAL

Seal and Signature of authorized DPMU Official:

Date:


GWE 

ग्राम पंचायत - जांगल जाट

खण्ड - दधीन

जिला - पलवल

हजेडा :- जल सुरक्षा योजना में संशोधन ।

ग्राम दिनांक 11/12/23 को DAP Team द्वारा ग्राम पंचायत जांगल जाट स्थान सरपंच की बैठक पर अटल भुजल योजना के तहत जल सुरक्षा योजना हेतु बैठक का आयोजन किया गया जिसमें अटल भुजल योजना के परिचय पर फिर से चर्चा की गई ।

जिसमें सरपंच व PWSO के सदस्यों सहित अन्य ग्रामवासियों की राय से ग्राम पंचायत में लिए जल सुरक्षा योजना जो पहले बनाई गई थी उसमें संशोधन करने हेतु चर्चा की गई ।

निष्कर्ष :- गांव में सिंचाई के लिए मलबारा व ग्रैप सिस्टम लगावा जाये और UGPL लगावाई जाये गांव में घरों में टांका का निर्माण कराया जाये और फसल विविधिकरण कराया जाये । और लेजर लैंड लेवलर दाय रखती की जाये ।



उपरोक्त सभी कार्य जल सुरक्षा योजना में संशोधन किये जाये और सरपंच सहित अन्य ग्रामवासियों की उपस्थिति में निनियम (रेज्युलेशन) पारित किया जाये

ANNEXURE III

RESOLUTION

Date: 7/9/23

It is hereby resolved that the Water Budget/ Water Security Plan (WSP) of नगल नगर. Gram Panchayat, हरीन Block/Taluk/Mandal, पलवल District, हरियाणा State is complete in all respect and has been prepared through consultative process including the members of Village Water and Sanitation Committee (VWSC) /equivalent Committee and was approved in the meeting held on 7/9/23.

| S. NO. | DESIGNATION | NAME | SIGNATURES |
|--------|---|----------------------|--|
| 1 | Gram Panchayat Adhyaksha (Sarpanch)/President of VWSC/ Presiding officer of the meeting | Tekchand |  |
| 2 | Gram Panchayat Secretary | Dharamender Singh |  |

| Sr no | Name | Gender • Female • Male • Other | Category • General • OBC • ST • SC | Occupation | Are you a member of any committee? (Yes/No) | If yes, name of the committee | Land holding Status • Landless • <2.5 acre • 2.5-5 acre • >5 acre | Phone no | Signature |
|-------|-------------|---|--|------------|---|-------------------------------|---|------------|-------------|
| 1 | Tokband | male | SC | Sarkari | Yes | VWSC | 2.5-5 | 9963735654 | [Signature] |
| 2 | Mansat kuma | M | BC | Member | Yes | VWSC | 7.5ac | 9053245477 | [Signature] |
| 3 | Mansat | F | Gen | Member | Yes | VWSC | 2.5-5 | 9128410084 | सिमता |
| 4 | Smida kumar | F | Gen | Member | Yes | VWSC | 2.5-5 | 8708253889 | अमित कुमारी |
| 5 | Beeka lata | F | Gen | Arise | Yes | VWSC | 7.5 | 9607507399 | सुदीपता |
| 6 | Mansa devi | F | OBC | Arise | Yes | VWSC | - | 961911577 | मैया देवी |
| 7 | Manswati | F | SC | Aasha | Yes | VWSC | - | 9091412583 | हरवती |
| 8 | Beeka | F | SC | Aasha | Yes | VWSC | - | 9877189218 | रंजना |
| 9 | Rajvati | F | SC | 3.worker | Yes | VWSC | - | 982403102 | राधवती |
| 10 | Dhankati | F | BC | 3.worker | Yes | VWSC | - | 8930896705 | सुनपति |
| 11 | Bir Pal | M | Gen | P.Operater | Yes | VWSC | 7.5ac | 9813000219 | निरपाल |
| 12 | Satveer | M | SC | Chakidar | Yes | VWSC | - | 7988050163 | सतवीर |
| 13 | Sabarjit | M | Gen | Farmes | No | No | <2.5 | - | स्वरजित |
| 14 | Puslapender | M | SC | Labour | No | No | - | - | पुष्पादेव |
| 15 | Vijit Rawat | M | SC | Labours | No | No | - | - | विजित रावत |

