

# Water Security Plan Report

Date : 30-09-2023    Time : 2:42 PM    User Name : xen.ataljal@gmail.com

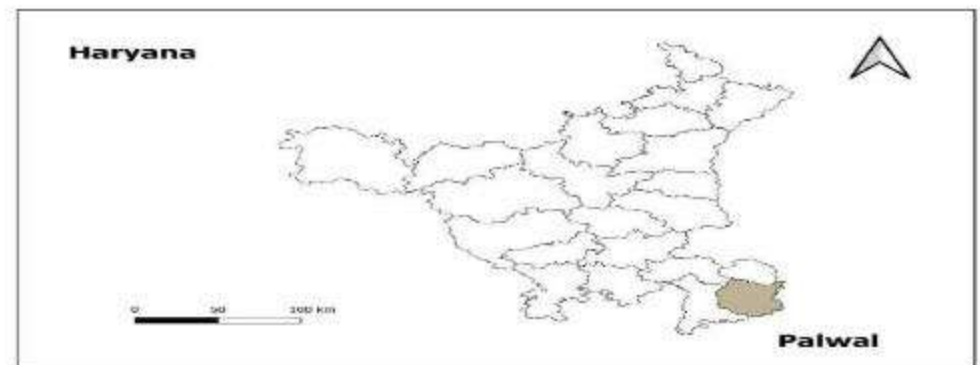
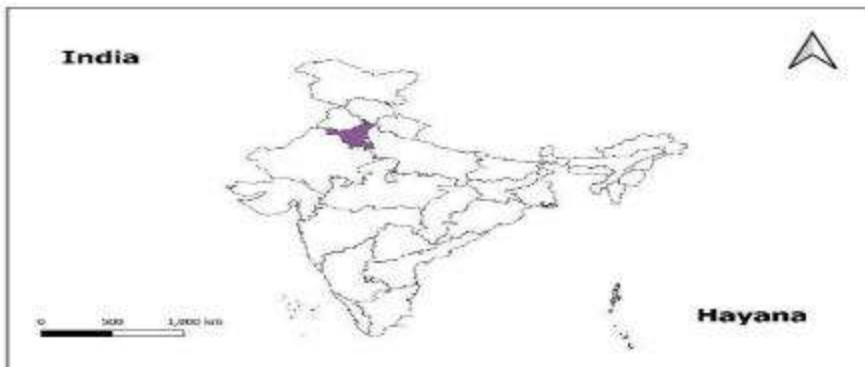
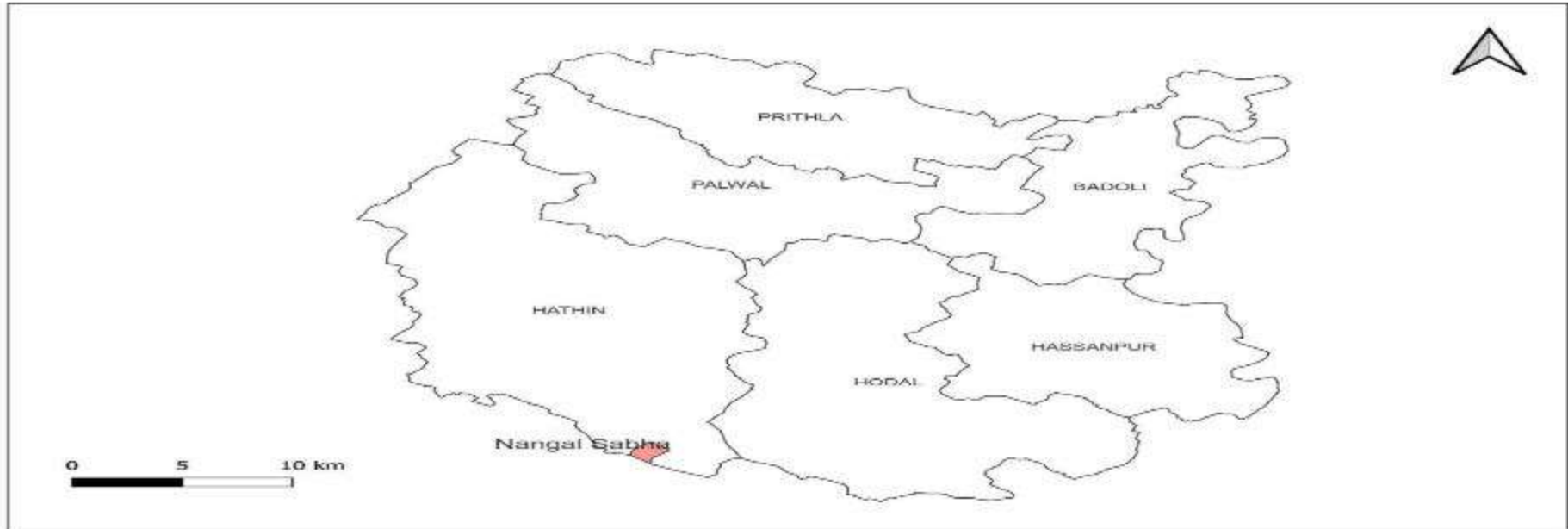
STATE: HARYANA\_6 »    DISTRICT: PALWAL\_619 »    BLOCK: HATHIN\_466 »    GRAM PANCHAYAT: NAGAL SABHA\_28828 »    YEAR: 2023-24 »

## Gram Panchayat Information

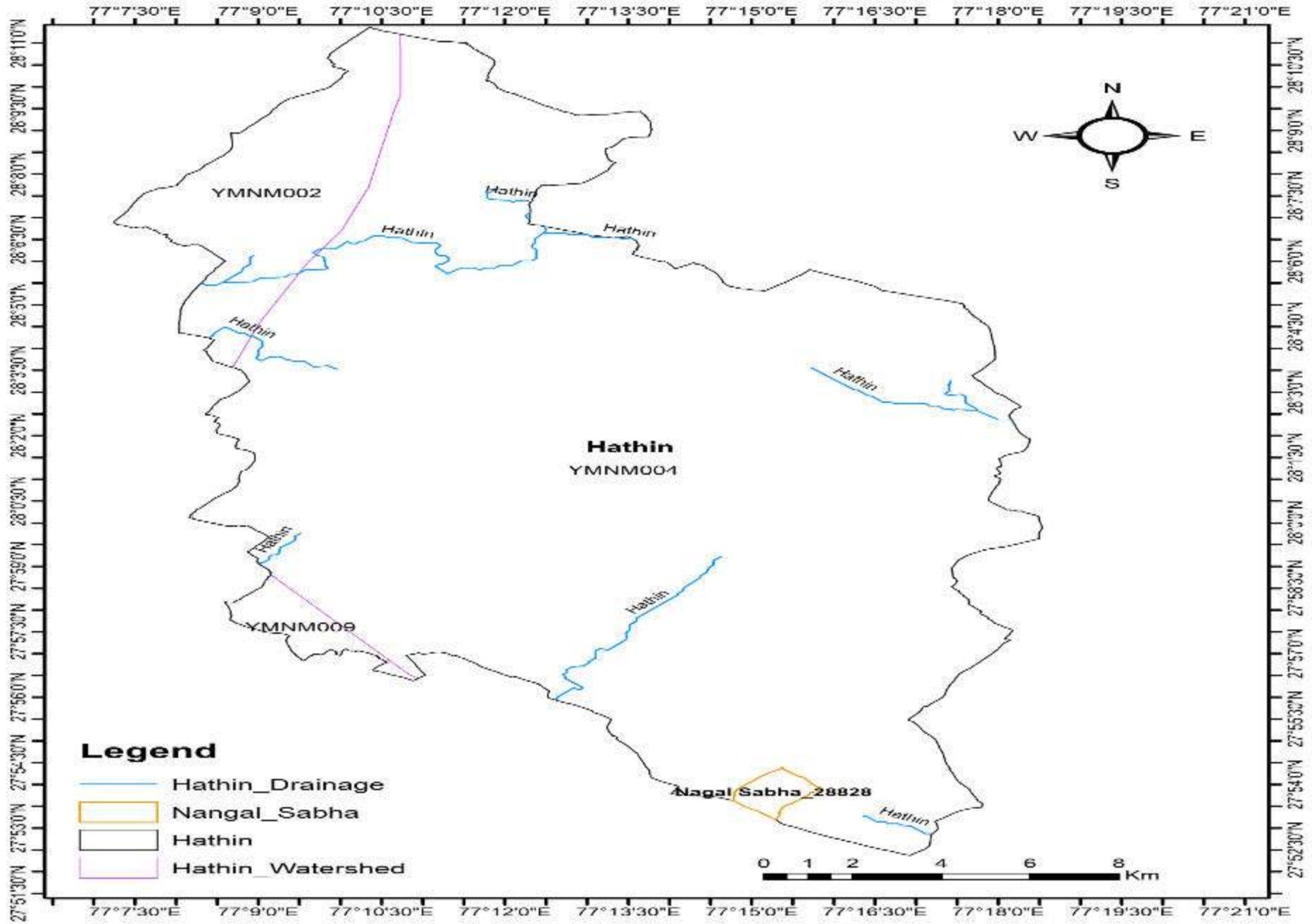
State:	Haryana_6	District:	Palwal_619
Block / Taluk :	Hathin_466	GP Name :	Nagal Sabha_28828
GP ID :	28828	Block Area (Ha) :	35990.49
GP area (Ha) :	195.00	Watershed Code :	YMNM004
Watershed name :	Yamuna	Watershed area in Block / Taluk (Ha) :	244653.04
Sub-basin Code :	2a	Sub basin name :	Yamuna Middle (Confluence with Chambal to Hindon)
Basin Code :	2C	Basin Name :	Yamuna

Location Map

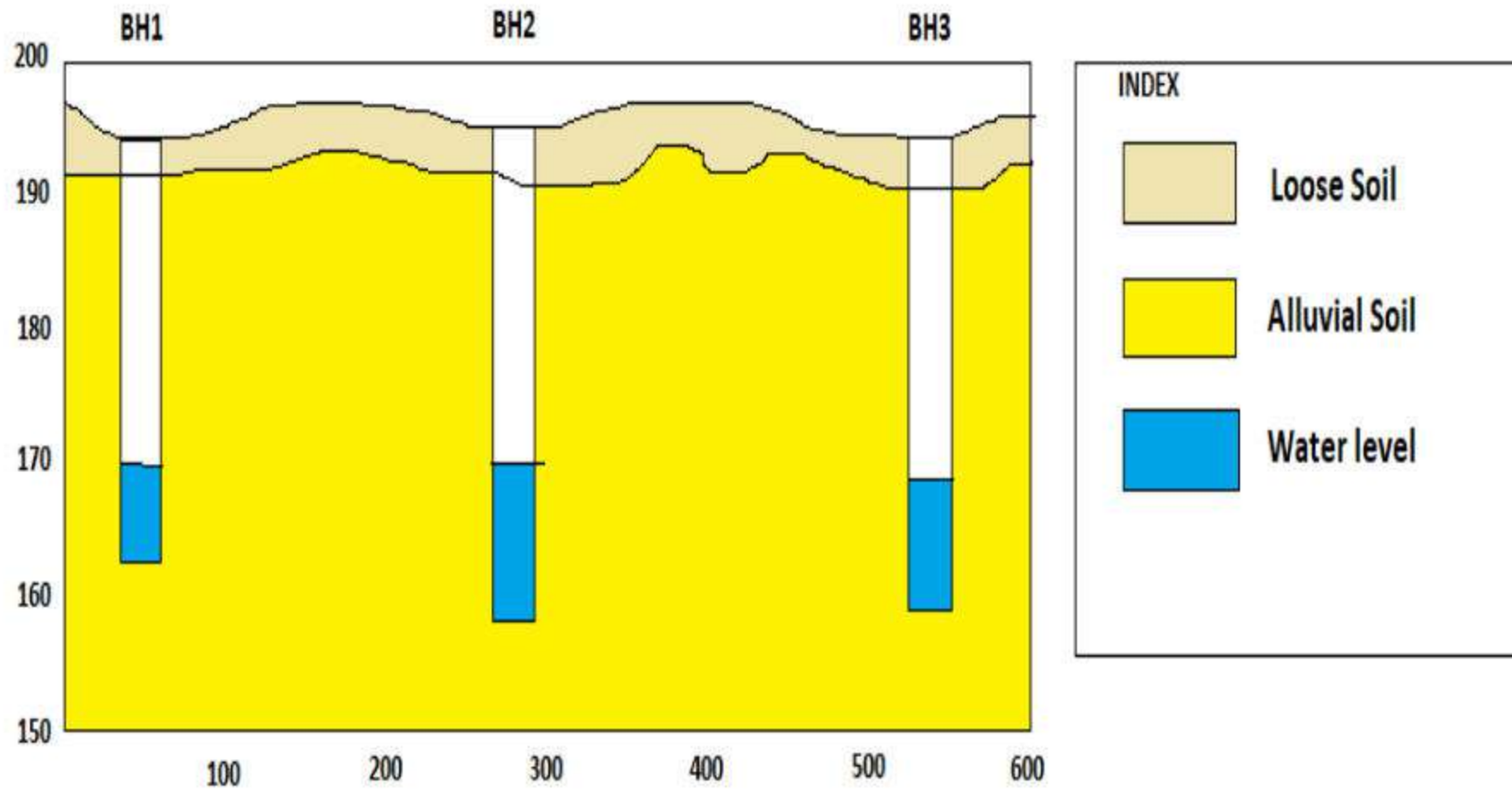
**Location map: Nangal Sabha Gram Panchayat, Hathin Block, Palwal District, Haryana**



### Nangal Sabha: Drainage & Watershed Map



Aquifer map: Nangal Sabha 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 sabha	Kabir plot	27.89837	77.25203	08:14.5	028828-001	Tube Well	null	Private	null	0.2	33	0.1	17.3	26-04-23
	Nangal sabha	Kabir plot	27.89837	77.25203	08:14.5	028828-001	Tube Well	null	Private	null	0.2	33	0.1	17	22-05-23
	Nangal sabha	Kabir plot	27.89837	77.25203	08:14.5	028828-001	Tube Well	null	Private	null	0.2	33	0.1	17.1	26-06-23
	Nangal sabha	Kabir plot	27.89837	77.25203	08:14.5	028828-001	Tube Well	null	Private	null	0.2	33	0.1	17	25-07-23
	Nangal sabha	Kabir plot	27.89837	77.25203	08:14.5	028828-001	Tube Well	null	Private	null	0.2	33	0.1	17.15	24-09-23
	Nangal sabha	Kabir plot	27.89837	77.25203	08:14.5	028828-001	Tube Well	null	Private	null	0.2	33	0.1	17.2	23-08-23

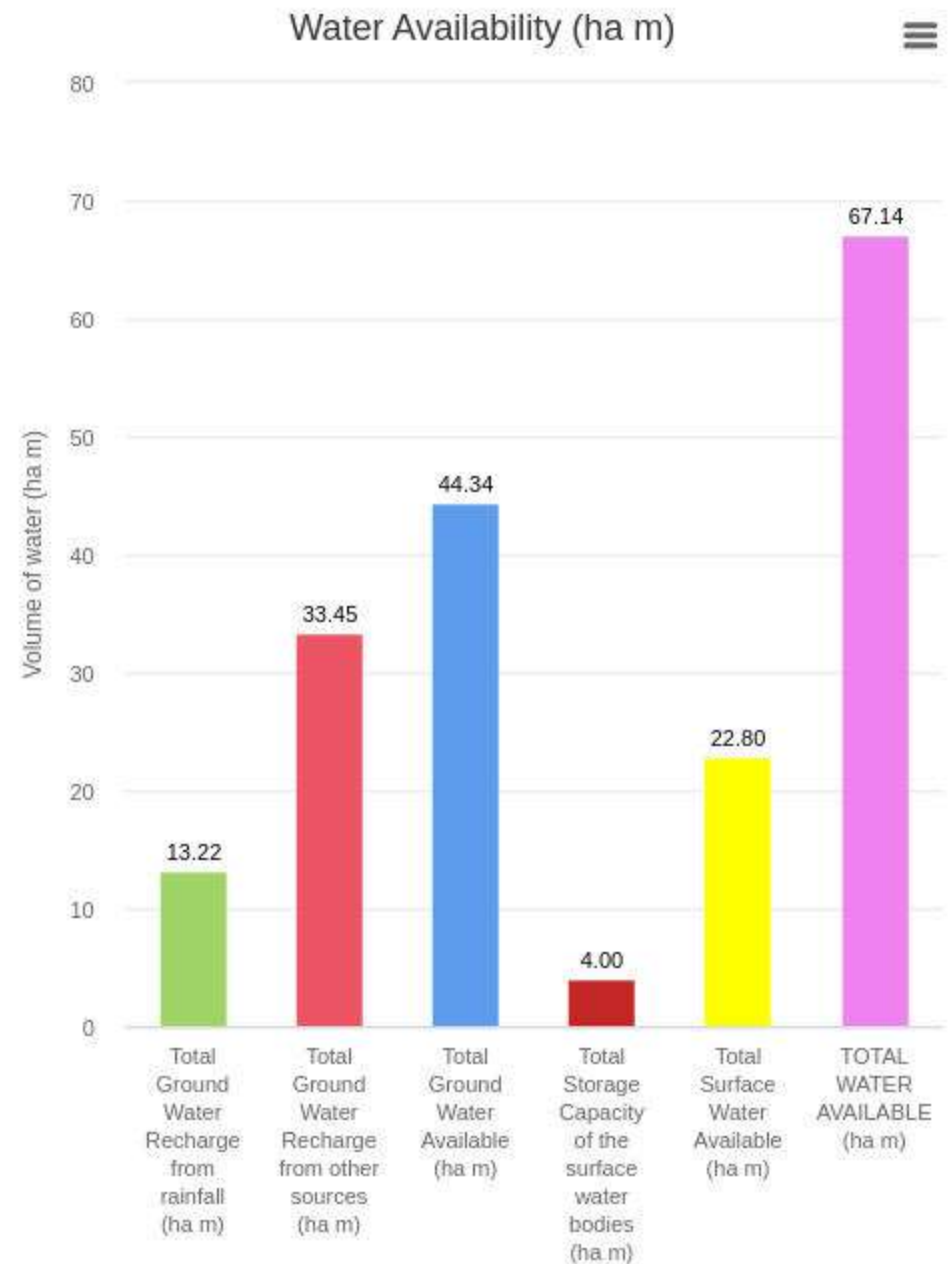
## Ground Water Quality

S.No.	Village Name	Location	Latitude	Longitude	Year	Well Type	Source	Well ID
1	NAGAL SABHA	NAGAL SABHA	27.897808	77.254364	2022	Tube Well	I&WRD	PAL/HAT/NAG/001
2	NAGAL SABHA	NAGAL SABHA	27.896992	77.252899	2022	Tube Well	I&WRD	PAL/HAT/NAG/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/NAG/001	22	ALLUVIAL	7.5	24108	14465	5290	600	920	2160	18	0	108	1720	5158	2.11	70
2	PAL/HAT/NAG/002	22	ALLUVIAL	6.9	23974	14384	5390	644	918	2016	15	0	200	1640	5102	1.95	69

## Water Availability Report

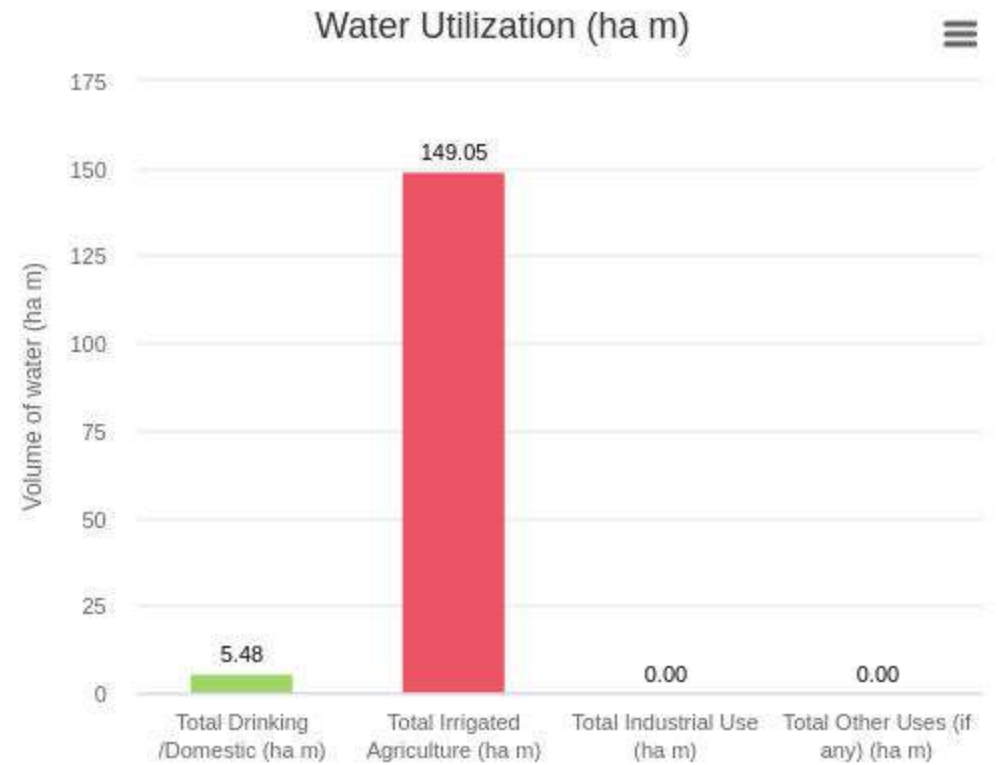
Water Availability		
1.	Total Available Water From Rainfall	
a.	Annual Rainfall (mm)	675.80
b.	Estimated Volume of Rainfall (ha m)	131.78
c.	Evapotranspiration rate (mm)	378.43
d.	Estimated Evapotranspiration losses (ha m)	73.79
e.	Estimated Water Available From Rainfall (ha m)	57.99
f.	Weighted Average Runoff Coefficient	0.30
g.	Rainfall Runoff(ha m)	17.40
2.	Ground Water	
a.	Recharge From Rainfall (ha m)	
(i)	Monsoon	13.06
(ii)	Non-Monsoon	0.16
	Total Ground Water Recharge from rainfall (ha m)	13.22
b.	Ground Water Recharge from other sources (ha m)	
(i)	Monsoon	15.06
(ii)	Non-Monsoon	18.39
	Total Ground Water Recharge from other sources (ha m)	33.45
c.	Losses Due to Natural Discharge (ha m)	2.33
	Total Ground Water Available (ha m)	44.34
d.	Ground Water Withdrawal (ha m)	28.75
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	1	4
	Total Storage Capacity of the surface water bodies (ha m)	4.00
(ii)	Losses if Any (%)	30.00
(iii)	Surface Water Available in Storages (ha m)	2.80
b.	Transported Water from outside GP area (ha m)	
	Total Surface Water Available (ha m)	22.80
4.	TOTAL WATER AVAILABLE	
	TOTAL WATER AVAILABLE (ha m)	67.14





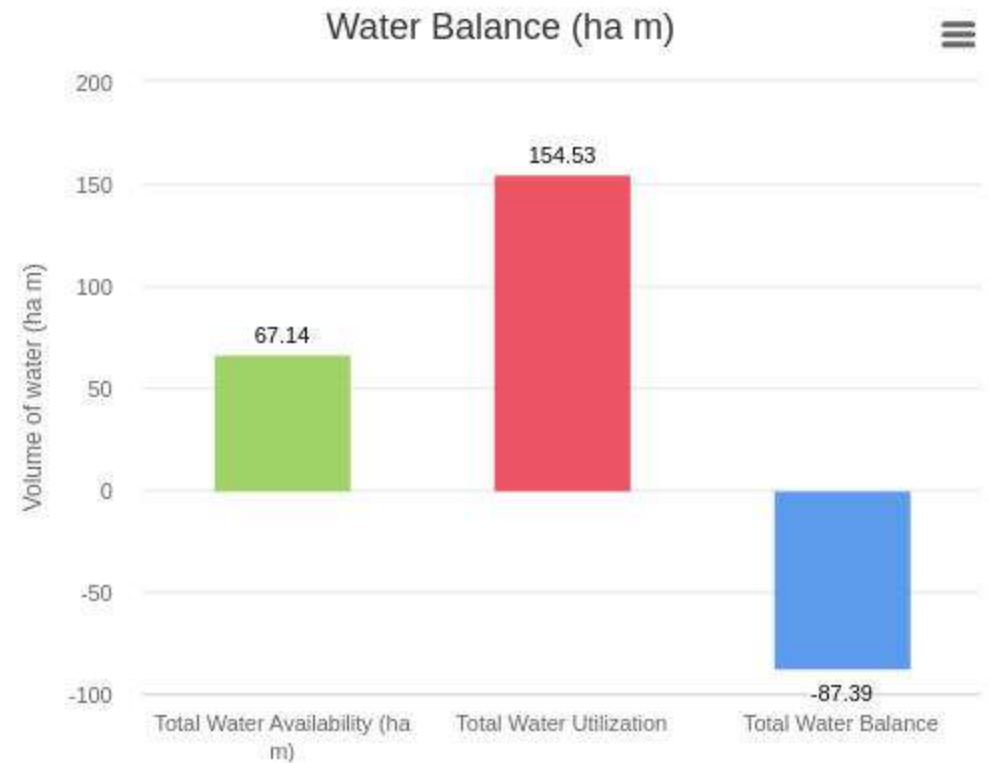
## Water Utilization Report

Water Utilization		
<b>A</b>	<b>Drinking /Domestic (ha m)</b>	
i)	From Surface Water	0.43
ii)	From Ground Water	5.05
	<b>Total Drinking /Domestic (ha m)</b>	5.48
<b>B</b>	<b>Irrigated Agriculture (ha m)</b>	
i)	From Surface Water	14.90
ii)	From Ground Water	134.15
	<b>Total Irrigated Agriculture (ha m)</b>	149.05
<b>C</b>	<b>Industrial Use (ha m)</b>	
i)	From Surface Water	0.00
ii)	From Ground Water	0.00
	<b>Total Industrial Use (ha m)</b>	0.00
<b>D</b>	<b>Other Uses (if any) (ha m)</b>	
i)	From Surface Water	0.0000
ii)	From Ground Water	0.0000
	<b>Total Other Uses (if any) (ha m)</b>	0.0000



## Water Balance Report

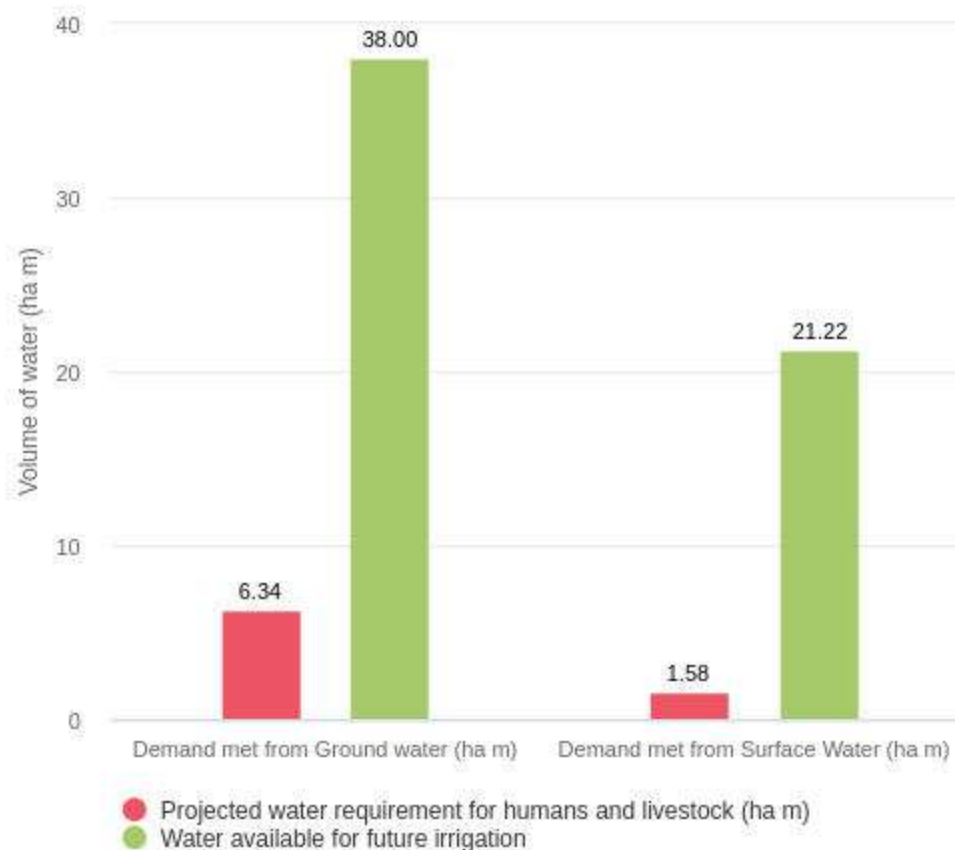
Water Balance		
<b>A</b>	<b>Water Availability (ha m)</b>	
i)	Total Ground Water Available	44.34
ii)	Total Surface Water Available	22.80
	<b>Total Water Availability (ha m)</b>	67.14
<b>B</b>	<b>Water Utilization (ha m)</b>	
i)	Total Surface Water Utilization	15.33
ii)	Total Ground Water Utilization	139.2
	<b>Total Water Utilization</b>	154.53
<b>C</b>	<b>Balance [Surplus (+) / Deficit (-)]</b>	
i)	Total Ground Water Balance	-94.86
ii)	Total Surface Water Balance	7.47
	<b>Total Water Balance</b>	-87.39



## Water Budget Report

A Allocation for Drinking & Domestic Requirements	
I Humans	
i) Present Human Population	1655.00
ii) Annual population growth rate (r)	1.20
iii) No. of years	28.00
iv) Projected human population (as in 2050)	2311.00
v) Per capita requirement (L)	55.00
vi) Projected water requirement for humans (as in 2050) (ha m)	4.64
II Livestock	
i) Present livestock population	478.00
ii) Annual population growth rate (r)	1.50
iii) No. of years	28.00
iv) Projected livestock population (as in 2050)	725.00
v) Average per capita requirement (L)	124.09
vi) Projected water requirement for livestock (as in 2050) (ha m)	3.28
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)	7.92
i) Proposed share to be met from Ground water (in % )	80.00
ii) Proposed share to be met from Surface water (in % )	20.00
iii) Demand met from Ground water (ha m)	6.34
iv) Demand met from Surface water (ha m)	1.58
C Water available for future irrigation	
i) Ground Water	38.00
ii) Surface water	21.22
iii) Total water available for future irrigation	59.22

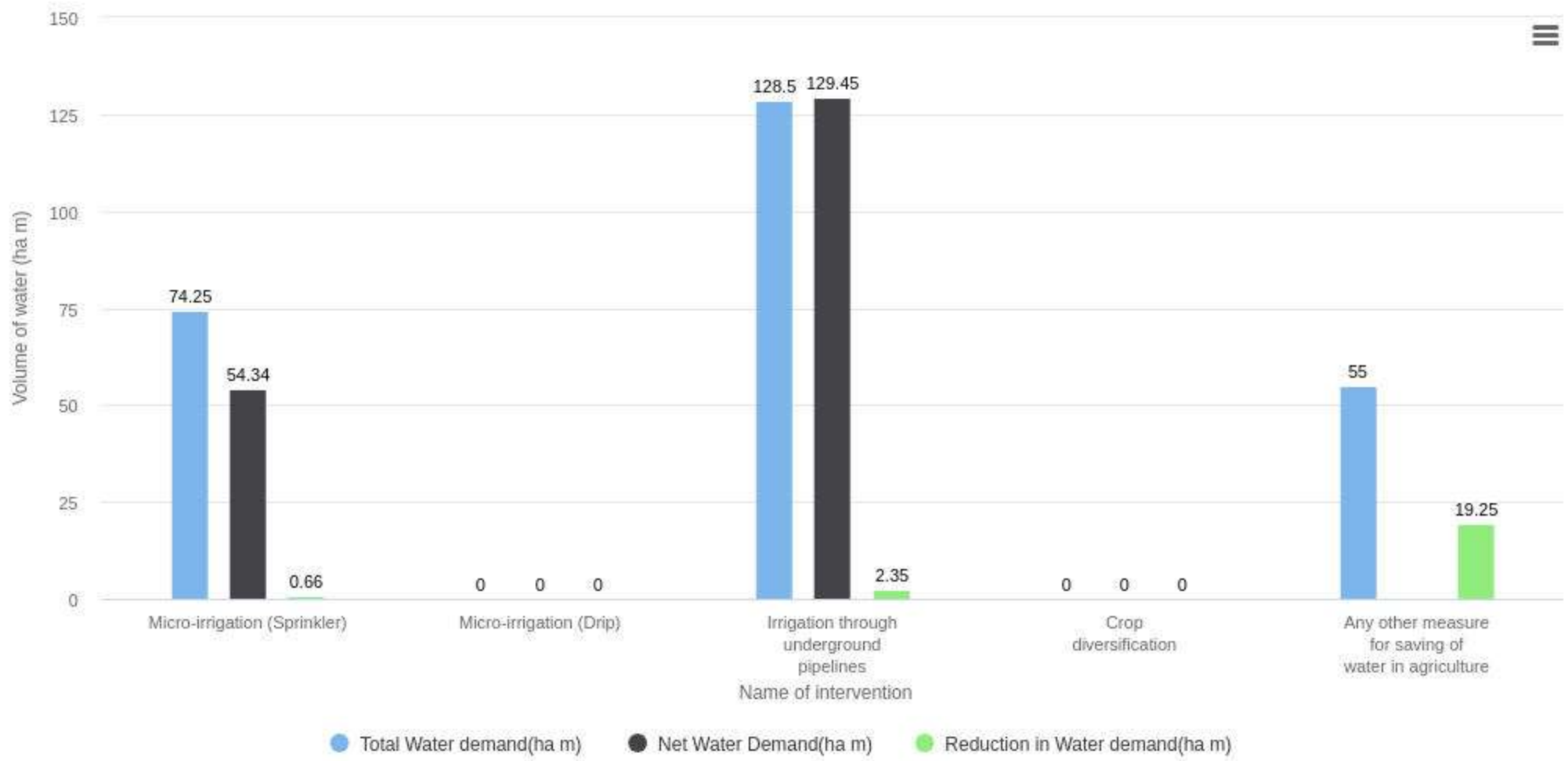
### Projected Water Budget for future use (for year 2050)



## 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	4.00	74.25	54.34	0.66	4.06
2	Drip	0.00	0.00	0.00	0.00	0.00
3	Pipelines	25.00	128.50	129.45	2.35	15.00
4	Crop Diversification	0	0.00	0.00	0.00	0.00
5	Other Measures	100.00	55.00	--	19.25	5.00
	<b>Total</b>	<b>129.00</b>	<b>257.75</b>	<b>183.79</b>	<b>22.26</b>	<b>24.06</b>

Funding Source						
Sr No	Name of Intervention	Area Proposed (ha)	Financial Year	Department Name	Scheme Name	Approximate Cost(in Lakh)
1	Sprinkler	4	2023-24	MICADA	PMKSY	4.06
2	UG Pipelines	25	2023-24	Agriculture Soil & Conservation Office	Rashtriye Krishi VikasYoajan (RKVY)	15
3	Other Measures	100	2023-24	Agriculture & Farmer Welfare Department	Other	5
	<b>Total</b>	<b>129</b>				<b>24.06</b>



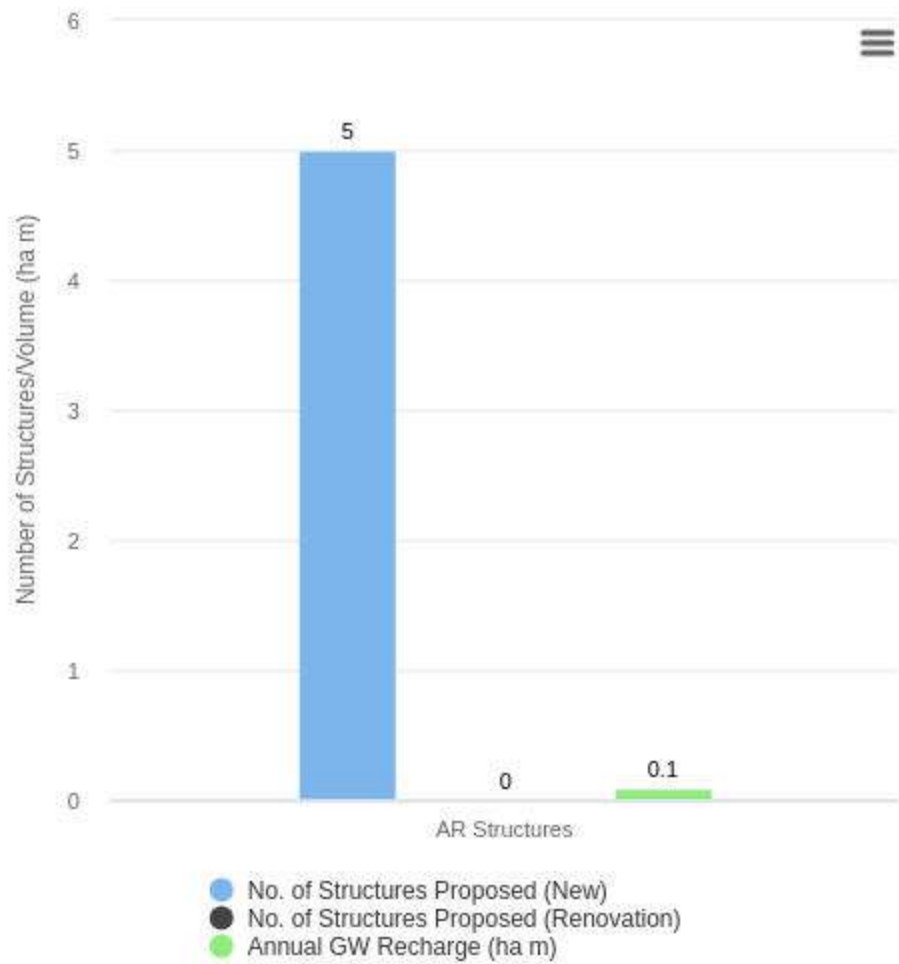


Supply Side (Water Conservation Structures)										
SR No	Name of Structure	Storage Capacity(ha m)	Effective storage available for use (ha m)	Village Name	Latitude	Longitude	Financial Year	Department Name	Scheme Name	Approximate Cost (in Lakhs)
1	Tanka(New)	0.02	0.00	Nangal Sabha(288)	27.898355	77.252509	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
2	Tanka(New)	0.02	0.00	Nangal Sabha(288)	27.898141	77.252425	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
3	Tanka(New)	0.02	0.00	Nangal Sabha(288)	27.897959	77.252378	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
4	Tanka(New)	0.02	0.00	Nangal Sabha(288)	27.898285	77.252952	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
5	Tanka(New)	0.02	0.00	Nangal Sabha(288)	27.898303	77.253215	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
6	Tanka(New)	0.02	0.00	Nangal Sabha(288)	27.898196	77.253346	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
7	Tanka(New)	0.02	0.00	Nangal Sabha(288)	27.89822	77.253825	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
8	Tanka(New)	0.02	0.00	Nangal Sabha(288)	27.898201	77.254236	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
9	Tanka(New)	0.02	0.00	Nangal Sabha(288)	27.897945	77.254062	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
10	Tanka(New)	0.02	0.00	Nangal Sabha(288)	27.897773	77.253962	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
11	Tanka(New)	0.02	0.00	Nangal Sabha(288)	27.897517	77.254299	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
12	Tanka(New)	0.02	0.00	Nangal Sabha(288)	27.897271	77.254241	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
13	Tanka(New)	0.02	0.00	Nangal Sabha(288)	27.897057	77.253578	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
14	Tanka(New)	0.02	0.00	Nangal Sabha(288)	27.89681	77.253804	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98

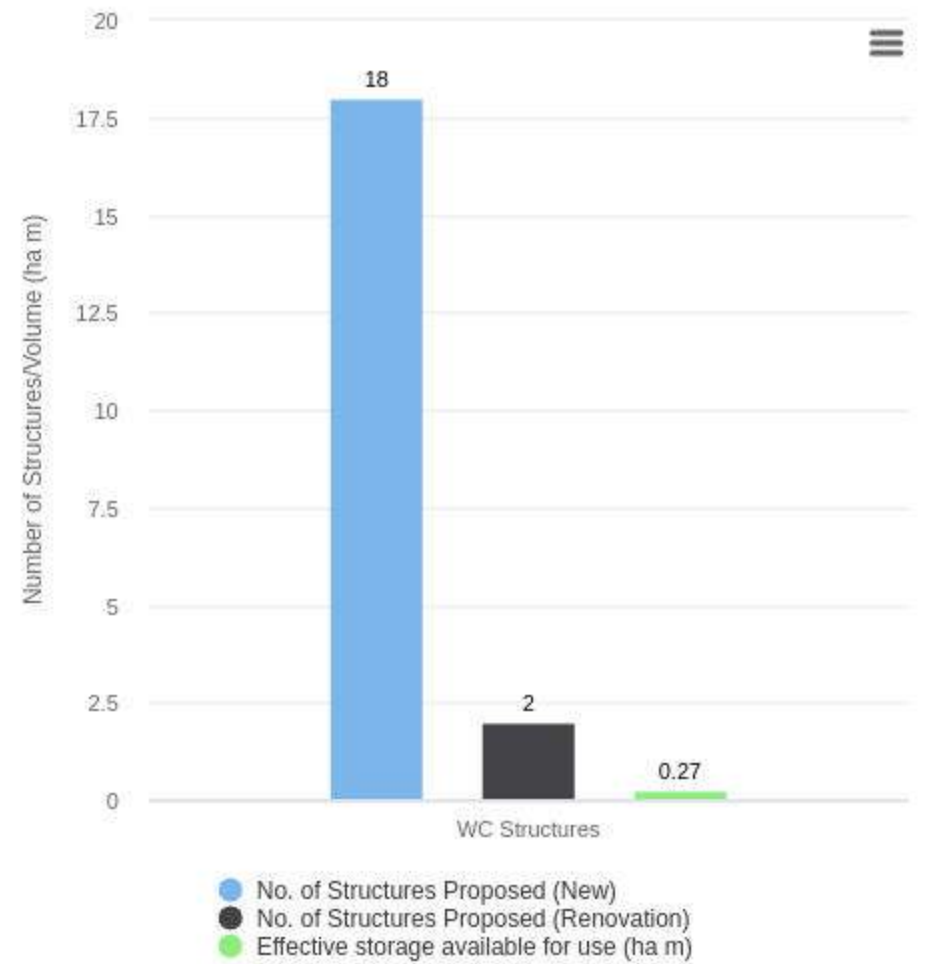




Supply Side (Artificial Recharge Structures)



Supply Side (Water Conservation Structures)



## PGWM Committee

PGWM Committee (VWSC/WUA/CBO)				
Sr.no	Name	Designation	Gender	Mobile /Landline No.
1	shamshad	chaiperson	Male	9812570425
2	fakrudeen	secretary	Male	9416295110
3	sakil	member	Female	9813904466
4	baksar	member	Male	9050702568
5	modd shad	member	Male	7938929216
6	wahid khan	member	Male	9050337405
7	ishanu	member	Female	9050337405
8	khatija	member	Female	9050545053
9	sahrana	member	Female	7988992216
10	8607172709	member	Male	8607172709
11	dinesh kumar	member	Male	8307249012
12	GURMEJ SINGH	member	Male	8901380906

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 Sabha_28828	2023-08-12	Nagal Sabha_28828	Nangal Sabha(288)	sarpanch ki baithak	16	6	0	22



Annexure -II

DPMU DECLARATION

I, MOHIT VASHISHTA (Name), XEN

(Designation), authorized representative under District Program Management Unit


(DPMU) declare that the Water Security Plan (WSP) submitted for the

Nagal Sabha Gram Panchayat,

Harhin 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

  
STEC

ग्राम पंचायत - नागल सभा

खण्ड - दधीन

जिला - पलवल

हजेडा :- जल सुरक्षा योजना में संशोधन ।

ग्राम दिनांक 12/11/23 को DAP ग्लोब द्वारा ग्राम पंचायत नागल सभा 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 PWSA के सदस्यों सहित अन्य ग्रामवासियों की राय से ग्राम पंचायत के लिए जल सुरक्षा योजना जो पहले बनाई गई थी उसमें संशोधन करने हेतु चर्चा की गई ।

निष्कर्ष :- गांव में जोड़ की सलाई कराई जाये व खेतों में सिंचाई के लिए ड्रिप सिस्टम व UGPL सिस्टम लगाया जाये । और गांव में धरो में टांका का निर्माण कराया जाये उक्त कार्य जल्द से जल्द कराया जाये ।

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

**ANNEXURE III**

**RESOLUTION**

**Date: 12/8/23**

It is hereby resolved that the Water Budget/ Water Security Plan (WSP) of भाराल सभा Gram Panchayat, एशी 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 12/08/2023

S. NO.	DESIGNATION	NAME	SIGNATURES
1	Gram Panchayat Adhyaksha (Sarpanch)/President of VWSC/ Presiding officer of the meeting	Samshad	शमशाद
2	Gram Panchayat Secretary	Fakruddeen	फ़क़रुद्दीन

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	Somshah	M	OBC	Sarpanch	Yes	VWSC	>5a	9813601520	शमसाह
2	Sakila	F	OBC	Member	Yes	VWSC	—	9813904466	समीला
3	Baskar	M	OBC	Member	Yes	VWSC	12.5	9050702568	बसकर
4	Shah Moha	M	OBC	Member	Yes	VWSC	22.5	9922929216	मोह शाह
5	Wahid Khan	M	OBC	Member	Yes	VWSC	7.5	9050337405	वाहिद खान
6	Tshamu	M	OBC	S. worker	Yes	VWSC	12.5	8395945014	इमान
7	Khanuja	F	OBC	S. worker	Yes	VWSC	12.5	9050545053	खनूजा
8	Sharuna	F	OBC	S. worker	Yes	VWSC	12.5	7982992216	शरुणा
9	Sachin	M	OBC	S. worker	Yes	VWSC	23.5	907171270	सचिन
10	Sibham	M	OBC	S. worker	Yes	VWSC	12.5	9813398071	सिबम
11	Fata	F	OBC	S. worker	Yes	VWSC	—	7027092626	फाता
12	Musanta	F	OBC	House	No	No	—	9812570425	मुसंता
13	Wahim	M	OBC	Farmer	No	No	12.5	9812570425	वासिम
14	Asgani	F	OBC	House	No	No	—	9059298152	असगनी
15	Fahim	M	OBC	Farmer	No	No	12.5	—	फहम



