

Water Security Plan Report

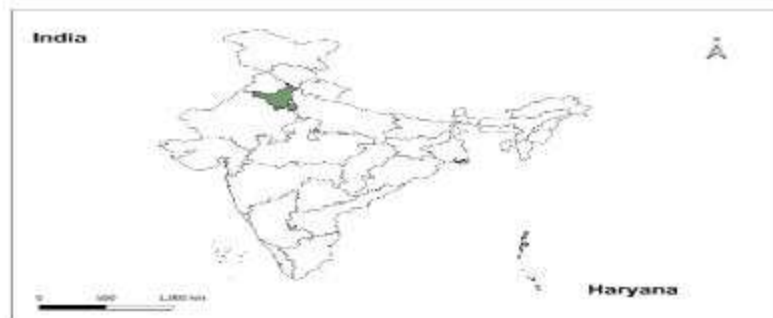
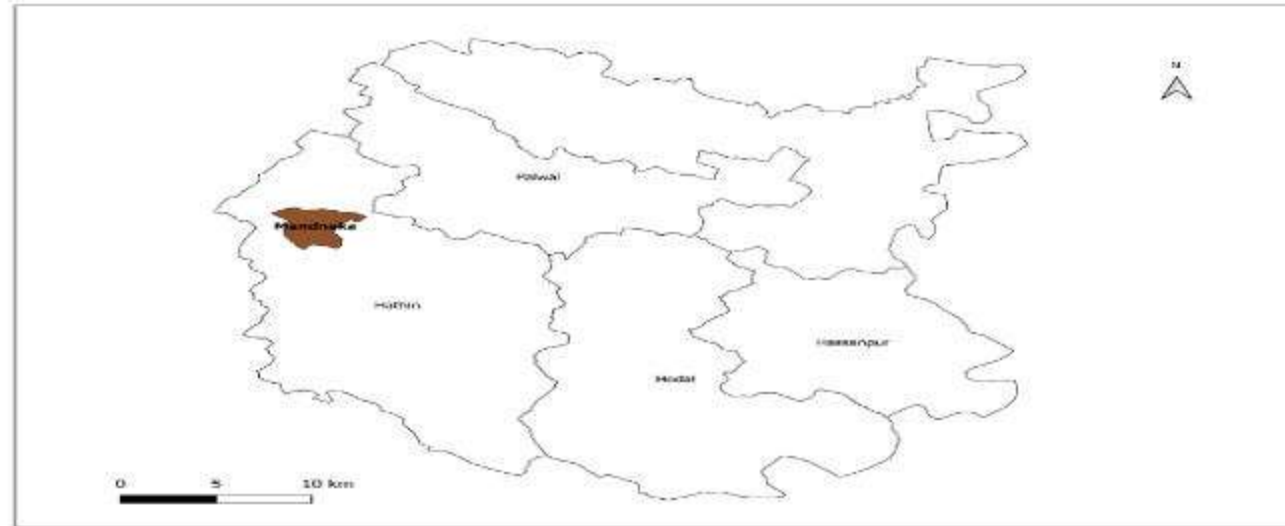
Date : 29-09-2023 Time : 2:33 PM User Name : xen.ataljal@gmail.com

STATE: HARYANA_6 » DISTRICT: PALWAL_619 » BLOCK: HATHIN_466 » GRAM PANCHAYAT: MANDNAKA_28816 » YEAR: 2023-24 »

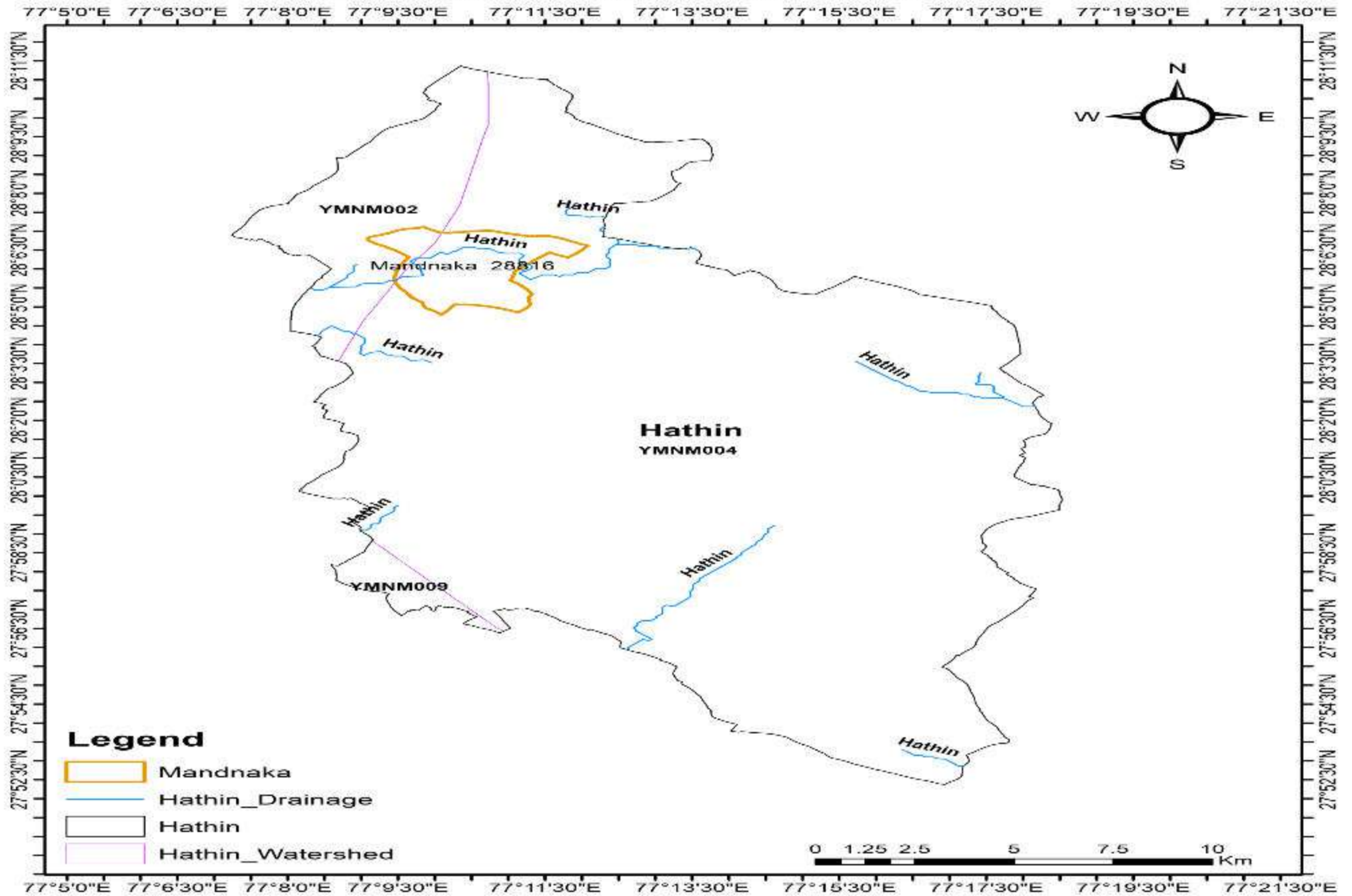
Gram Panchayat Information

State:	Haryana_6	District:	Palwal_619
Block / Taluk :	Hathin_466	GP Name :	Mandnaka_28816
GP ID :	28816	Block Area (Ha) :	35990.49
GP area (Ha) :	1124.00	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

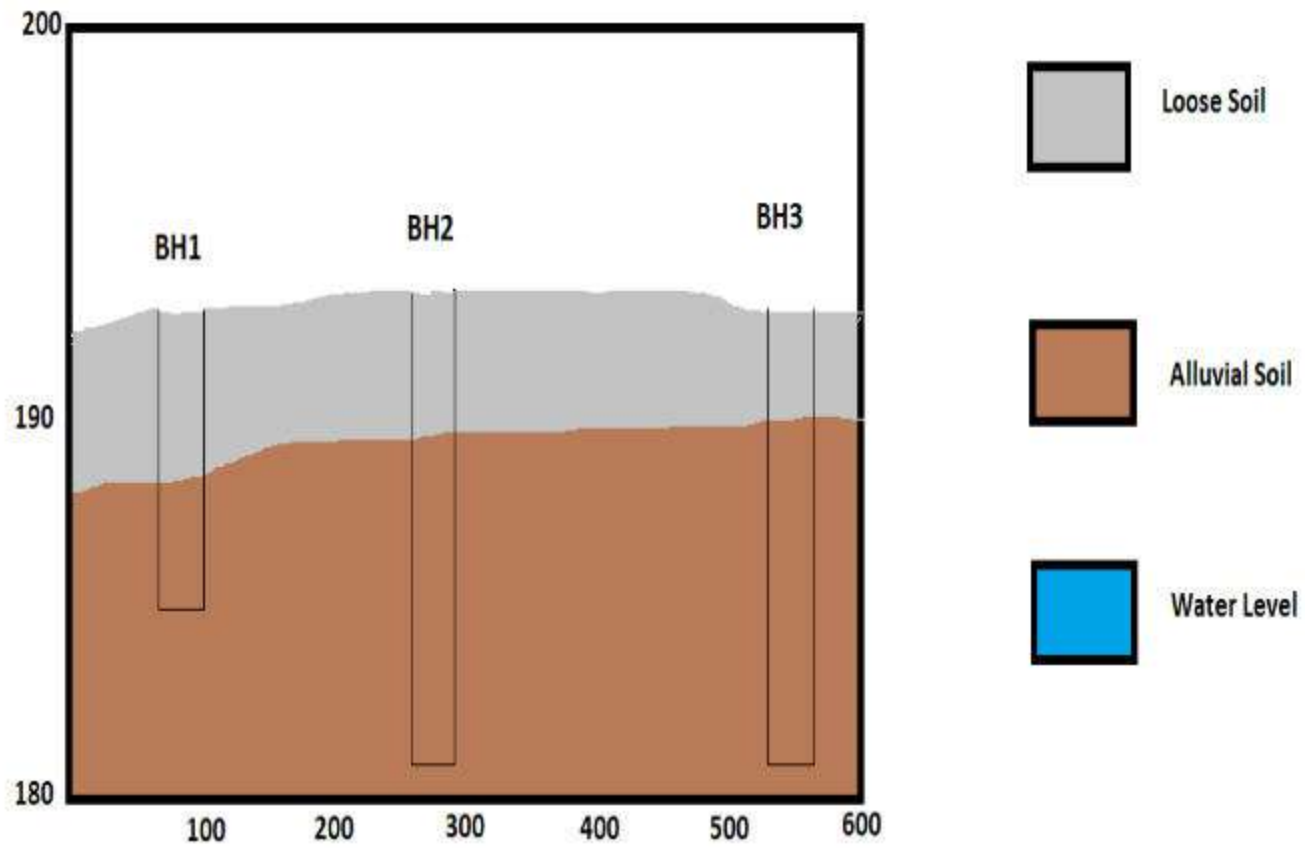
Location map: Mandnaka Gram Panchayat, Hathin Block, Palwal District, Haryana



Mandnaka: Drainage & Watershed Map



Aquifer map: Mandhnaka 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	Mandnaka	Panditoka kua	28.09792	77.17719	41:06.3	028816-001	Dug Well	null	Government	SGWB	2.98	12	0.7	2.3	23-04-23
	Mandnaka	Panditoka kua	28.09792	77.17719	41:06.3	028816-001	Dug Well	null	Government	SGWB	2.98	12	0.7	2.53	20-05-23
	Mandnaka	Panditoka kua	28.09792	77.17719	41:06.3	028816-001	Dug Well	null	Government	SGWB	2.98	12	0.7	2.32	26-06-23
	Mandnaka	Panditoka kua	28.09792	77.17719	41:06.3	028816-001	Dug Well	null	Government	SGWB	2.98	12	0.7	2.12	25-07-23
	Mandnaka	Panditoka kua	28.09792	77.17719	41:06.3	028816-001	Dug Well	null	Government	SGWB	2.98	12	0.7	2.2	26-08-23
	Mandnaka	Panditoka kua	28.09792	77.17719	41:06.3	028816-001	Dug Well	null	Government	SGWB	2.98	12	0.7	2.23	23-09-23

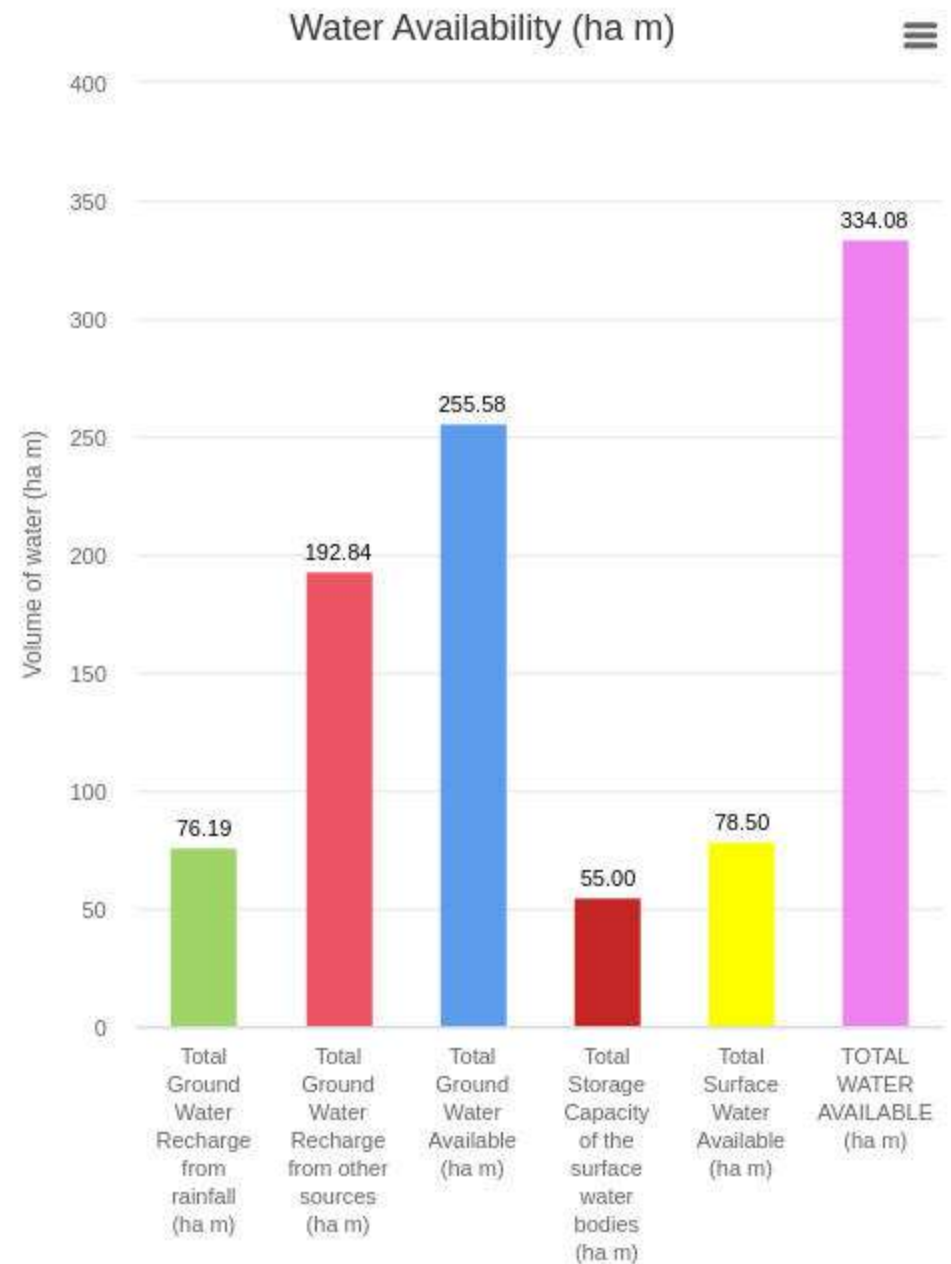
Ground Water Quality

S.No.	Village Name	Location	Latitude	Longitude	Year	Well Type	Source	Well ID
1	MADNAKA	MADNAKA	28.100599	77.177101	2022	Tube Well	I&WRD	PAL/HAT/MAD/001
2	MANDNAKA	MANDNAKA	28.0989	77.181396	2022	Tube Well	I&WRD	PAL/HAT/MAD/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/MAD/001	12	ALLUVIAL	7.2	7306	4384	1860	340	245	280	3	0	248	740	1306	1.06	28
2	PAL/HAT/MAD/002	12	ALLUVIAL	7.5	7366	4420	1670	280	235	260	3.4	0	122	714	1674	1	25

Water Availability Report

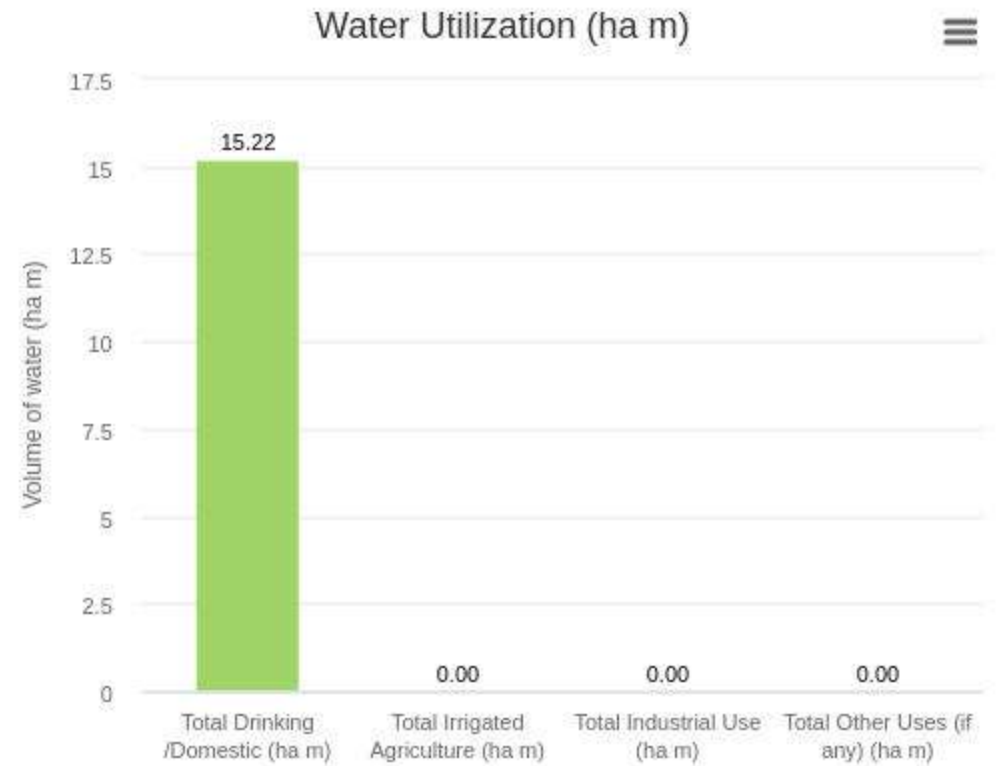
Water Availability		
1. Total Available Water From Rainfall		
a.	Annual Rainfall (mm)	675.80
b.	Estimated Volume of Rainfall (ha m)	759.60
c.	Evapotranspiration rate (mm)	378.43
d.	Estimated Evapotranspiration losses (ha m)	425.36
e.	Estimated Water Available From Rainfall (ha m)	334.24
f.	Weighted Average Runoff Coefficient	0.30
g.	Rainfall Runoff(ha m)	100.27
2. Ground Water		
a.	Recharge From Rainfall (ha m)	
(i)	Monsoon	75.29
(ii)	Non-Monsoon	0.90
	Total Ground Water Recharge from rainfall (ha m)	76.19
b.	Ground Water Recharge from other sources (ha m)	
(i)	Monsoon	86.81
(ii)	Non-Monsoon	106.03
	Total Ground Water Recharge from other sources (ha m)	192.84
c.	Losses Due to Natural Discharge (ha m)	13.45
	Total Ground Water Available (ha m)	255.58
d.	Ground Water Withdrawal (ha m)	165.73
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)
FARM POND	5	20
Ponds	6	35
	Total Storage Capacity of the surface water bodies (ha m)	55.00
(ii)	Losses if Any (%)	30.00
(iii)	Surface Water Available in Storages (ha m)	38.50
b.	Transported Water from outside GP area (ha m)	40.00
	Total Surface Water Available (ha m)	78.50
4. TOTAL WATER AVAILABLE		



4.	TOTAL WATER AVAILABLE	
	TOTAL WATER AVAILABLE (ha m)	334.08

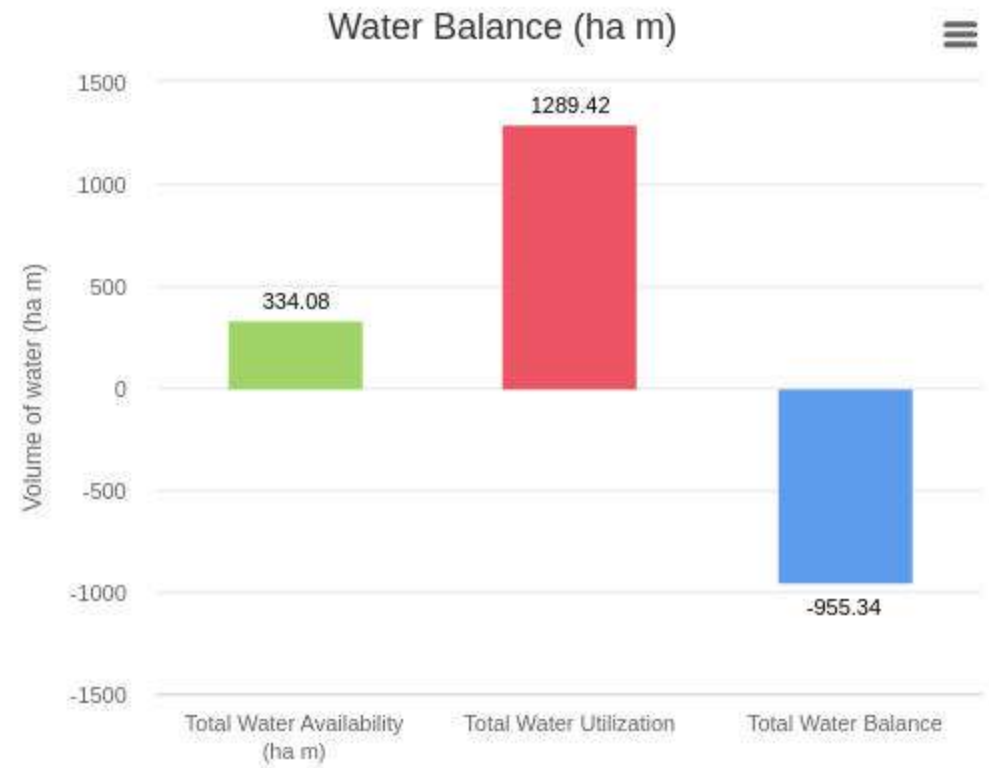
Water Utilization Report

Water Utilization		
A	Drinking /Domestic (ha m)	
i)	From Surface Water	2.46
ii)	From Ground Water	12.76
	Total Drinking /Domestic (ha m)	15.22
B	Irrigated Agriculture (ha m)	
i)	From Surface Water	382.26
ii)	From Ground Water	891.94
	Total Irrigated Agriculture (ha m)	1274.20
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

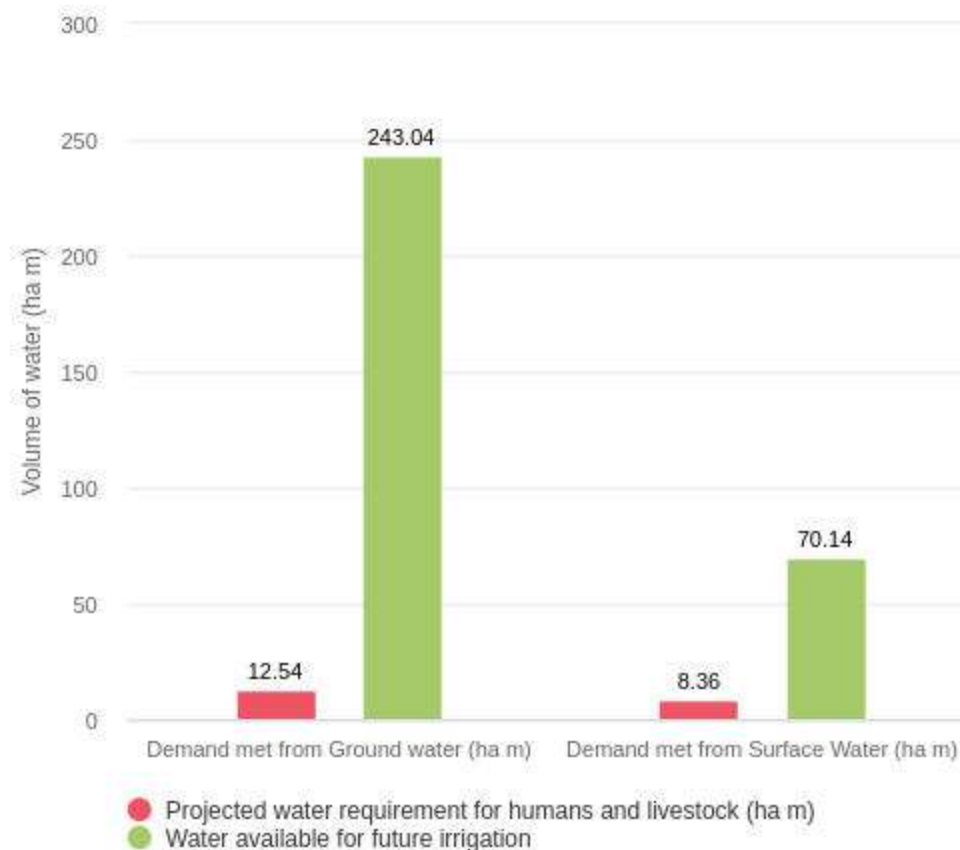
Water Balance		
A	Water Availability (ha m)	
i)	Total Ground Water Available	255.58
ii)	Total Surface Water Available	78.50
	Total Water Availability (ha m)	334.08
B	Water Utilization (ha m)	
i)	Total Surface Water Utilization	384.72
ii)	Total Ground Water Utilization	904.7
	Total Water Utilization	1289.42
C	Balance [Surplus (+) / Deficit (-)]	
i)	Total Ground Water Balance	-649.12
ii)	Total Surface Water Balance	-306.22
	Total Water Balance	-955.34



Water Budget Report

A Allocation for Drinking & Domestic Requirements	
I Humans	
i) Present Human Population	4513.00
ii) Annual population growth rate (r)	1.20
iii) No. of years	28.00
iv) Projected human population (as in 2050)	6303.00
v) Per capita requirement (L)	55.00
vi) Projected water requirement for humans (as in 2050) (ha m)	12.65
II Livestock	
i) Present livestock population	1320.00
ii) Annual population growth rate (r)	1.05
iii) No. of years	28.00
iv) Projected livestock population (as in 2050)	1768.00
v) Average per capita requirement (L)	127.89
vi) Projected water requirement for livestock (as in 2050) (ha m)	8.25
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)	20.91
i) Proposed share to be met from Ground water (in %)	60.00
ii) Proposed share to be met from Surface water (in %)	40.00
iii) Demand met from Ground water (ha m)	12.54
iv) Demand met from Surface water (ha m)	8.36
C Water available for future irrigation	
i) Ground Water	243.04
ii) Surface water	70.14
iii) Total water available for future irrigation	313.17

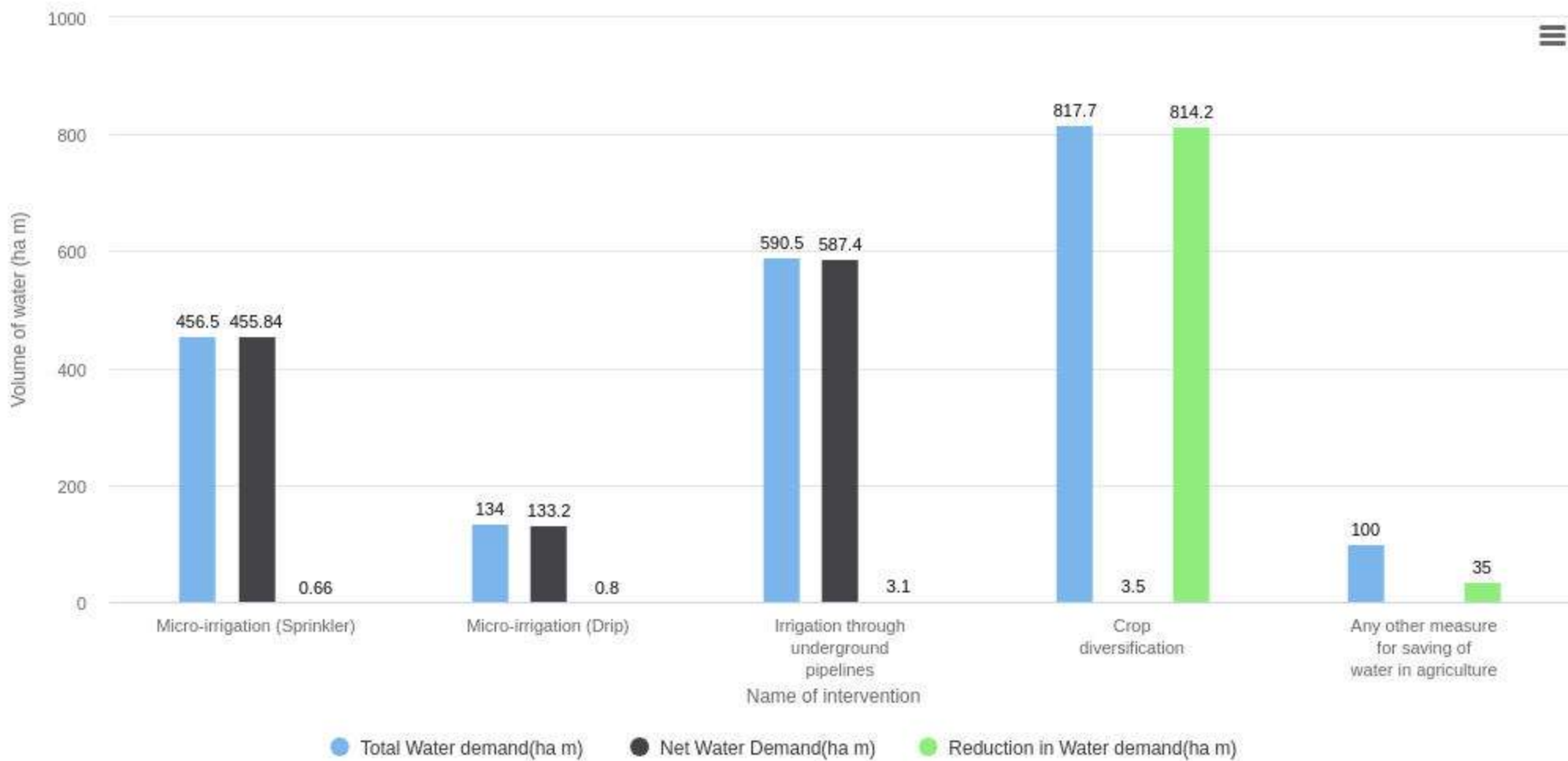
Projected Water Budget for future use (for year 2050)



Demand Side

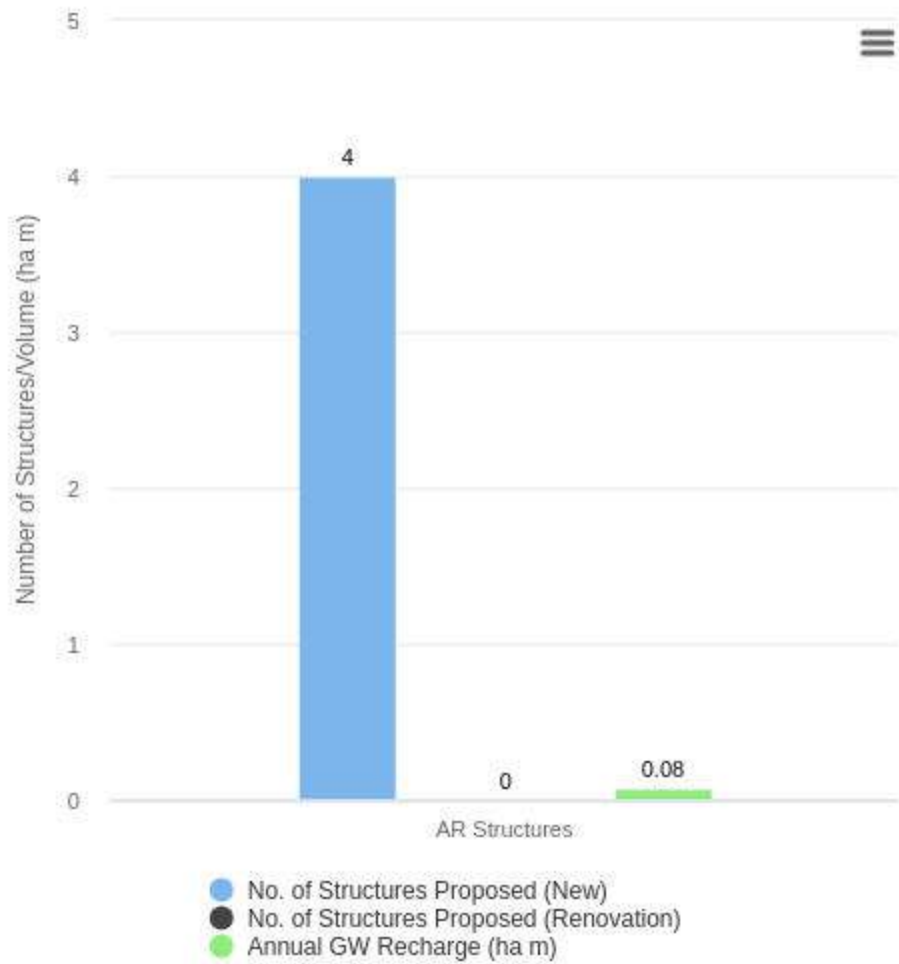
Demand Side						
Sr No	Name of Intervention	Proposed Area(ha)	Total Water demand(ha m)	Net Water Demand(ha m)	Reduction in Water demand(ha m)	Approximate cost(in lakh)
1	Sprinkler	4.00	456.50	455.84	0.66	4.06
2	Drip	2.00	134.00	133.20	0.80	2.13
3	Pipelines	20.00	590.50	587.40	3.10	12.00
4	Crop Diversification	10	817.70	3.50	814.20	1.75
5	Other Measures	100.00	100.00	--	35.00	5.00
	Total	136.00	2098.70	1179.94	853.76	24.94

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	Drip	2	2023-24	MICADA	PMKSY	2.13
3	UG Pipelines	20	2023-24	Agriculture Soil & Conservation Office	Rashtriye Krishi VikasYoajan (RKVY)	12
4	Crop Diversification	10	2023-24	Agriculture & Farmer Welfare Department	Mera Pani Meri Virasat(MPMV)	1.75
5	Other Measures	100	2023-24	Agriculture & Farmer Welfare Department	Other	5
	Total	136				24.94

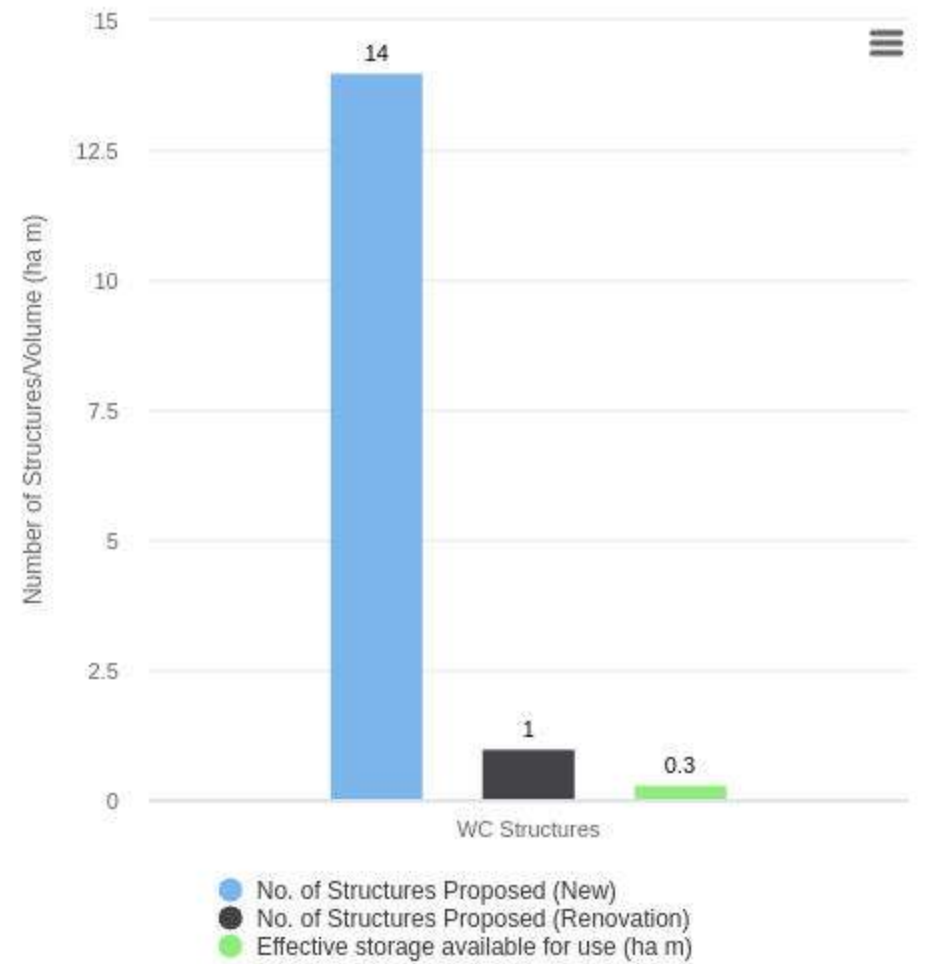


Supply Side (Water Conservation Structures)										
SR No	Name of Structure	Storage Capacity(ha m)	Effective storage available for use (ha m)	Village Name	Latitude	Longitude	Financial Year	Department Name	Scheme Name	Approximate Cost (in Lakhs)
1	Pond/Amrit Sarovar(Renovation)	5.08	0.30	Mandhnaka(213)	28.103358	77.177325	2023-24	Rural Department and Panchayati Raj	Amrit Sarovar	98.20
2	Tanka(New)	0.02	0.00	Mandhnaka(213)	28.100456	77.176182	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
3	Tanka(New)	0.02	0.00	Mandhnaka(213)	28.099656	77.177313	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
4	Tanka(New)	0.02	0.00	Mandhnaka(213)	28.099599	77.176294	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
5	Tanka(New)	0.02	0.00	Mandhnaka(213)	28.100021	77.17865	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
6	Tanka(New)	0.02	0.00	Mandhnaka(213)	28.098462	77.177695	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
7	Tanka(New)	0.02	0.00	Mandhnaka(213)	28.098181	77.178236	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
8	Tanka(New)	0.02	0.00	Mandhnaka(213)	28.098701	77.176915	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
9	Tanka(New)	0.02	0.00	Mandhnaka(213)	28.098139	77.179414	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
10	Tanka(New)	0.02	0.00	Mandhnaka(213)	28.100049	77.178968	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	bhawana	chairperson	Female	9050064302
2	sasi bala	member	Female	9050975668
3	sammi	member	Male	9050975926
4	ghanshyam	member	Male	9813704031
5	bilkis	member	Male	8930537878
6	haseena	member	Female	9813054986
7	reshmakumar	member	Female	7027841373
8	versa	member	Female	9812573495
9	sunil kumar	member	Male	9541799833
10	Alok Ram	meber	Male	8818080451
11	SABIR HUSSAIN	meber	Male	SABIR HUSS
12	charan singh	secretary	Male	9813793978

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	Mandnaka_28816	2023-09-08	Mandnaka_28816	Mandhnaka(213)	sarpanch ki baithak	12	10	0	22

Photograph



 **Note cam lite**
Address : Mandnaka,Haryana,India
Latitude : 28.097809999999996°
Longitude : 77.17682166666667°




 **Note**
Address :

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
Madnaka Gram Panchayat,
Hathin Block/Taluk, Palwal District is
complete in all respect.

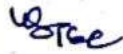
It is hereby confirmed that the Minutes of community-level Meeting and Resolution attached
are in order and signed by authorized signatories.


Executive Engineer
Palwal Water Services Division
PALWAL

Seal and Signature of authorized DPMU Official:

Date:


6/00/00



व्येसा:- जल सुरक्षा योजना के संसोधन ।

आज दिनांक 8/9/2023 को JIP Team द्वारा ग्राम पंचायत मंडनाका स्थान सरपंच की बैठक पर जल सुरक्षा योजना के तहत जल सुरक्षा योजना हेतु बैठक का आयोजन किया गया जिसमें जल सुरक्षा योजना के परिचय पर मिर से चर्चा की गई । जिसमें सरपंच व PWSO के सदस्यों सहित अन्य ग्रामवासियों की शय से ग्राम पंचायत के लिए जल सुरक्षा योजना जो पहले से बनाई गई थी उसमें संसोधन करने हेतु चर्चा की गई ।

निष्कर्ष:- गांव में जोड्ड की सोल - सलाई कराई जाये और सिंचाई हेतु क्वबारा सिस्टम व UPL सिस्टम लगाया जाये और कसल विविधिकरण कराया जाये व लेजर लैंड लेवलर द्वारा खेती की जाये और धरो में टांक का निर्माण कराया जाये ।



उपयुक्त सभी कार्य जल सुरक्षा योजना में संसोधन किये जाये और सरपंच सहित अन्य ग्रामवासियों की उपस्थिती में विनियम (रेग्युलेशन) जास्ता किया गया ।

ANNEXURE III

RESOLUTION

Date: 2/9/23

It is hereby resolved that the Water Budget/ Water Security Plan (WSP) of Mensabaka Gram Panchayat, Hathin Block/Taluk/Mandal, Pakhal District, Hyderabad 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 2/9/23.

S. NO.	DESIGNATION	NAME	SIGNATURES
1	Gram Panchayat Adhyaksha (Sarpanch)/President of VWSC/ Presiding officer of the meeting	Bhawana	
2	Gram Panchayat Secretary	Charan 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	Giridhar	F	Gen	Sarbanah	Yes	VWSC	75	905071719	भाबना
2	Shobhala	F	Gen	Member	Yes	VWSC	<2.5	9050975667	शशिपाला
3	Sonam	F	OBC	Member	Yes	VWSC	2	9050975826	सुमती
4	Shamshin	M	Gen	Member	Yes	VWSC	—	9213704031	शमशिन
5	Balkis	F	OBC	A.W.W	Yes	VWSC	<2.5	8930537972	कल्याणिका
6	Mansura	F	OBC	Asha	Yes	VWSC	—	9818054976	किशोरा
7	Roshni	F	OBC	Asha	Yes	VWSC	—	7027241373	Roshni
8	Wansha	F	OBC	A.W.W	Yes	VWSC	—	9812513495	वशिशा
9	Talvi Ram	M	Gen	Farmer	No	VWSC	—	—	तुलसी राम
10	Shiv Chander	M	Sc	Labour	No	No	2.5-5	—	शिवचरण
11	Satpal	M	Sc	Labour	No	No	<2.5	9050975677	Satpal
12	Munish	M	OBC	Farmer	No	No	<2.5	9813701477	मुनीश
13	Jaganmoh	M	Gen	Farmer	No	No	<2.5	—	जगमोहन
14	Sandeep	M	Gen	Farmer	No	No	2.5-5	—	Sandeep
15	Balvir	M	Gen	Farmer	No	No	2.5-5	—	Balvir

