

Water Security Plan Report

Date : 29-09-2023 Time : 2:39 PM User Name : xen.ataljal@gmail.com

STATE: HARYANA_6 »

DISTRICT: PALWAL_619 »

BLOCK: HATHIN_466 »

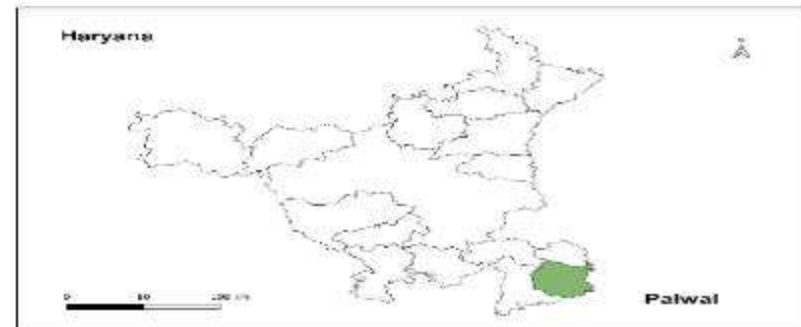
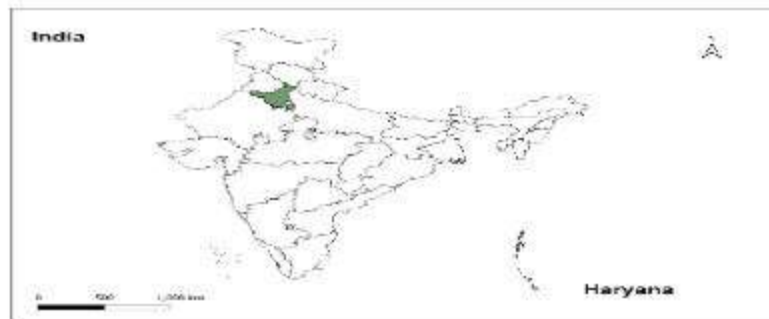
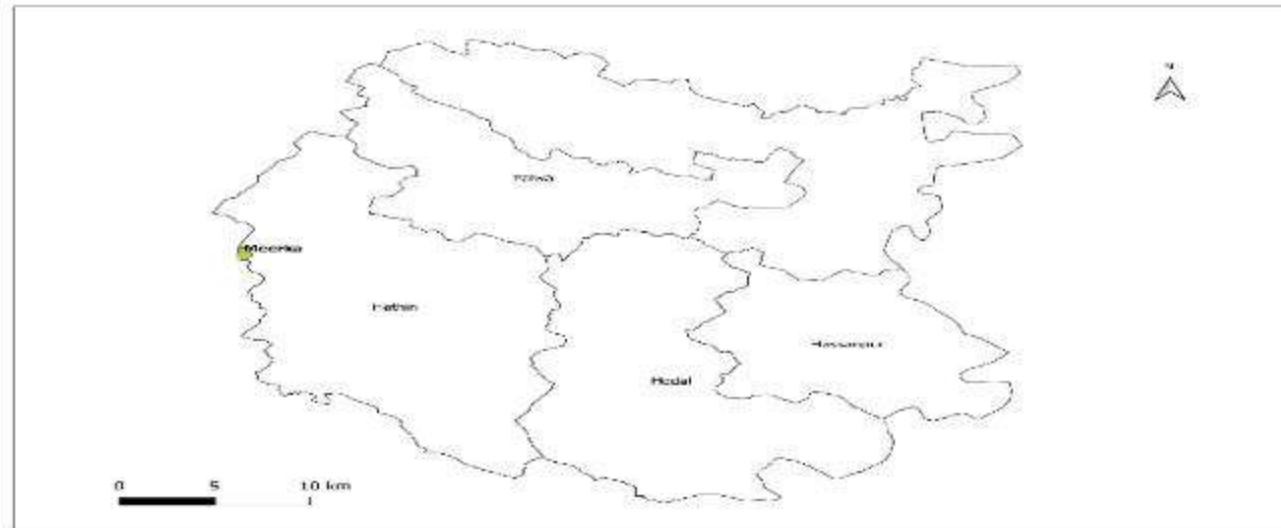
GRAM PANCHAYAT: MEERKA_28824 »

YEAR: 2023-24 »

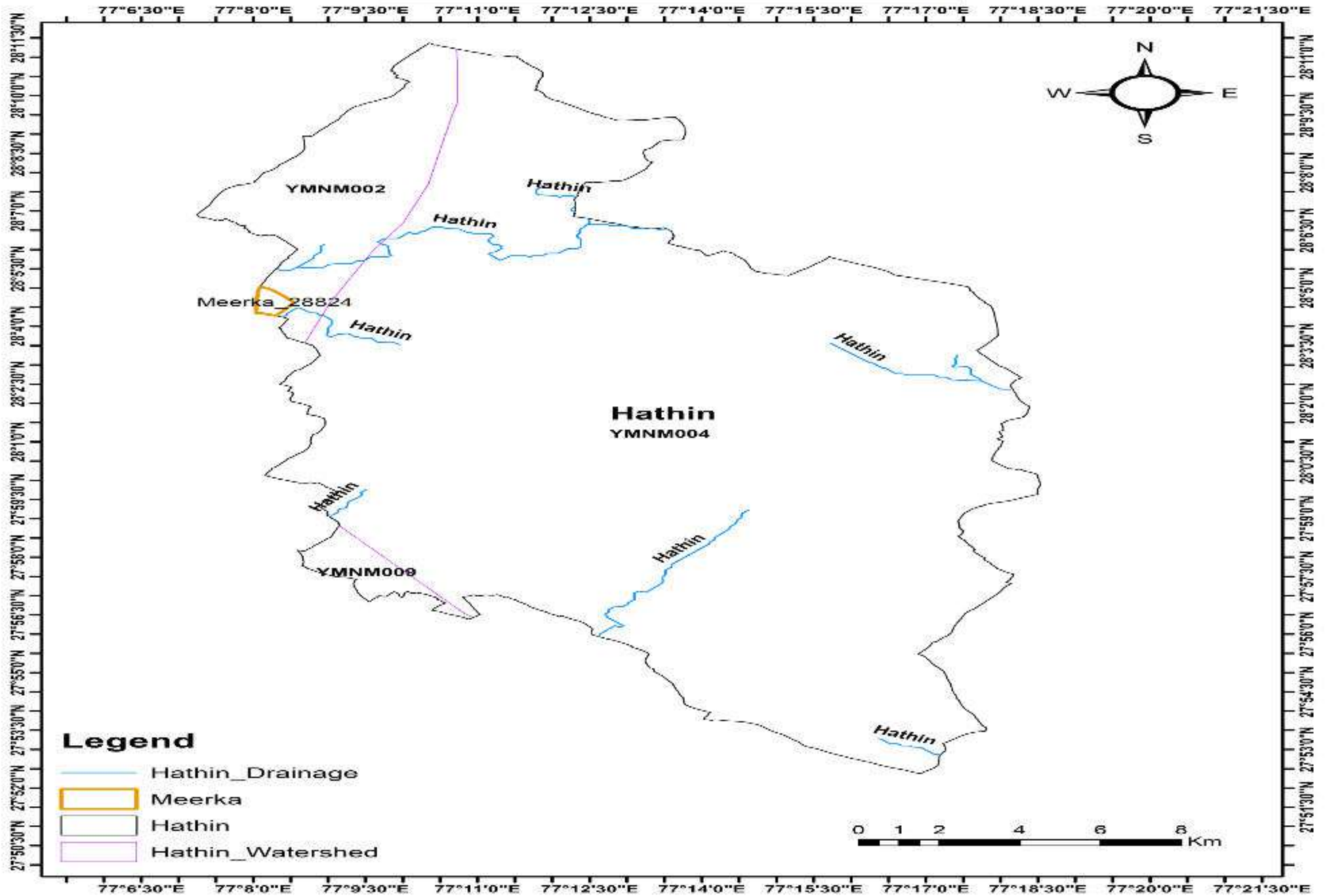
Gram Panchayat Information

State:	Haryana_6	District:	Palwal_619
Block / Taluk :	Hathin_466	GP Name :	Meerka_28824
GP ID :	28824	Block Area (Ha) :	35990.49
GP area (Ha) :	74.00	Watershed Code :	YMNM002
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

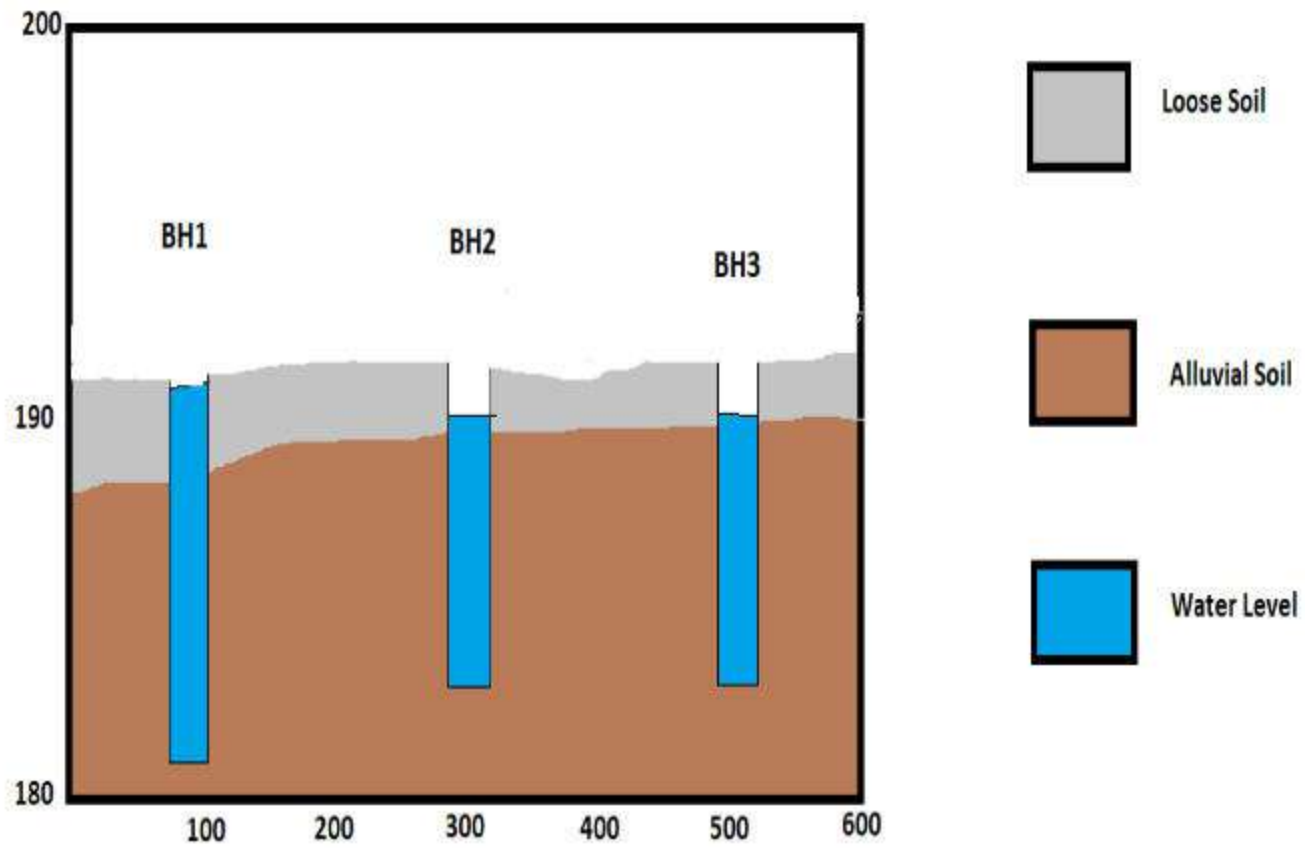
Location map: Meerka Gram Panchayat, Hathin Block, Palwal District, Haryana



Meerka: Drainage & Watershed Map



Aquifer map: Mirka 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	Meerka	Old sarpanch house	28.07576	77.14142	32:38.4	028824-001	Dug Well	null	Government	SGWB	1.5	8	1	2.4	24-04-23
	Meerka	Old sarpanch house	28.07576	77.14142	32:38.4	028824-001	Dug Well	null	Government	SGWB	1.5	8	1	2.44	21-05-23
	Meerka	Old sarpanch house	28.07576	77.14142	32:38.4	028824-001	Dug Well	null	Government	SGWB	1.5	8	1	1.7	23-07-23
	Meerka	Old sarpanch house	28.07576	77.14142	32:38.4	028824-001	Dug Well	null	Government	SGWB	1.5	8	1	1.56	21-08-23
	Meerka	Old sarpanch house	28.07576	77.14142	32:38.4	028824-001	Dug Well	null	Government	SGWB	1.5	8	1	1.56	24-09-23
	Meerka	Old sarpanch house	28.07576	77.14142	32:38.4	028824-001	Dug Well	null	Government	SGWB	1.5	8	1	2.42	24-06-23

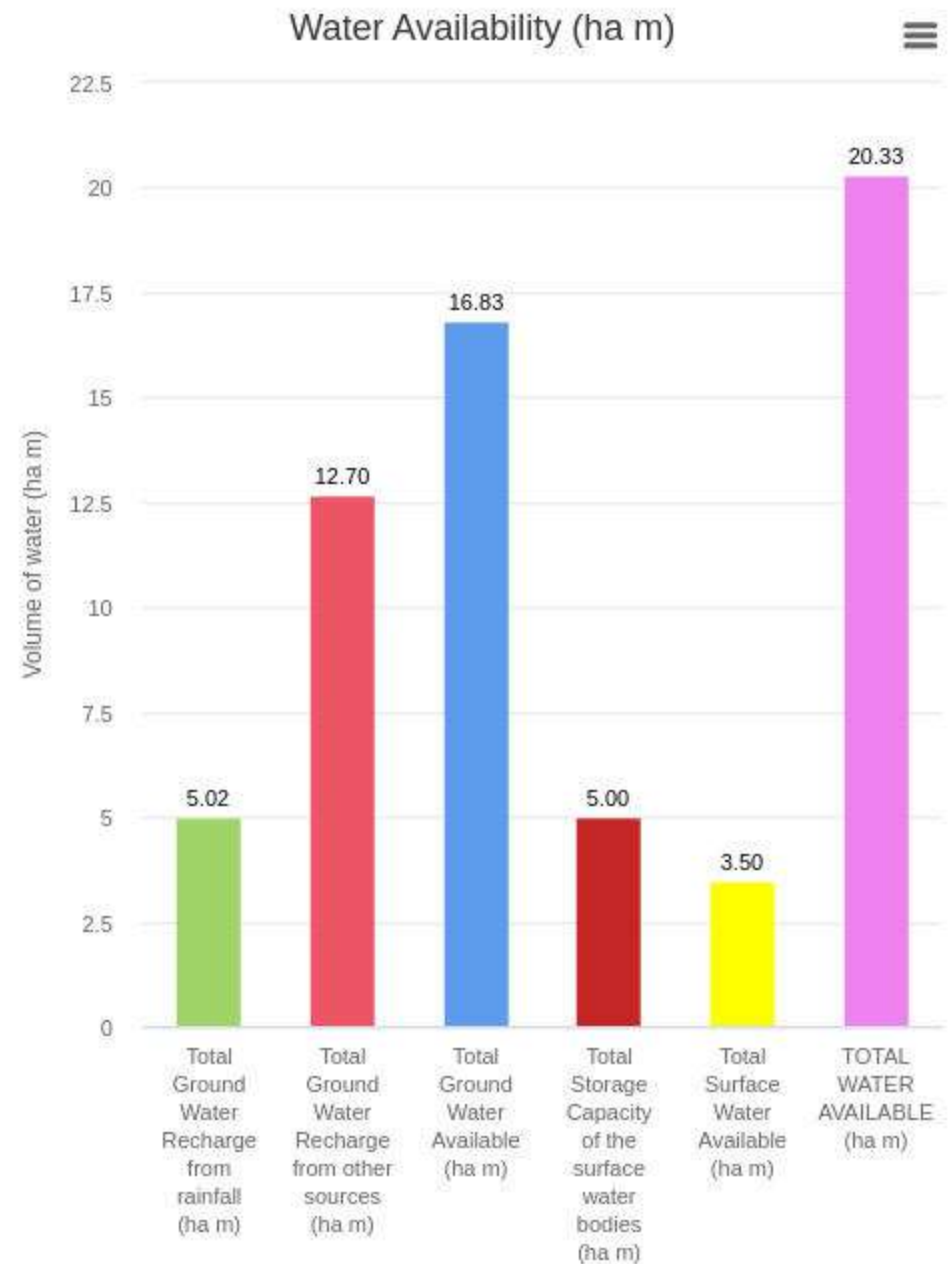
Ground Water Quality

S.No.	Village Name	Location	Latitude	Longitude	Year	Well Type	Source	Well ID
1	MEERKA	MEERKA	28.073975	77.139542	2022	Tube Well	I&WRD	PAL/HAT/MIR/001
2	MEERKA	MEERKA	28.075712	77.137306	2022	Tube Well	I&WRD	PAL/HAT/MIR/002

S.No.	Well ID	Well Depth (mbgl)	Aquifer	PH	EC (μ S/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/MIR/001	14	ALLUVIAL	6.9	19410	12530	5090	580	884.5	2420	23.8	0	320	810	4019	1.42	64
2	PAL/HAT/MIR/002	14	ALLUVIAL	6.9	19280	12320	5000	560	874	2340	19.3	0	342	808	4009	1.39	65

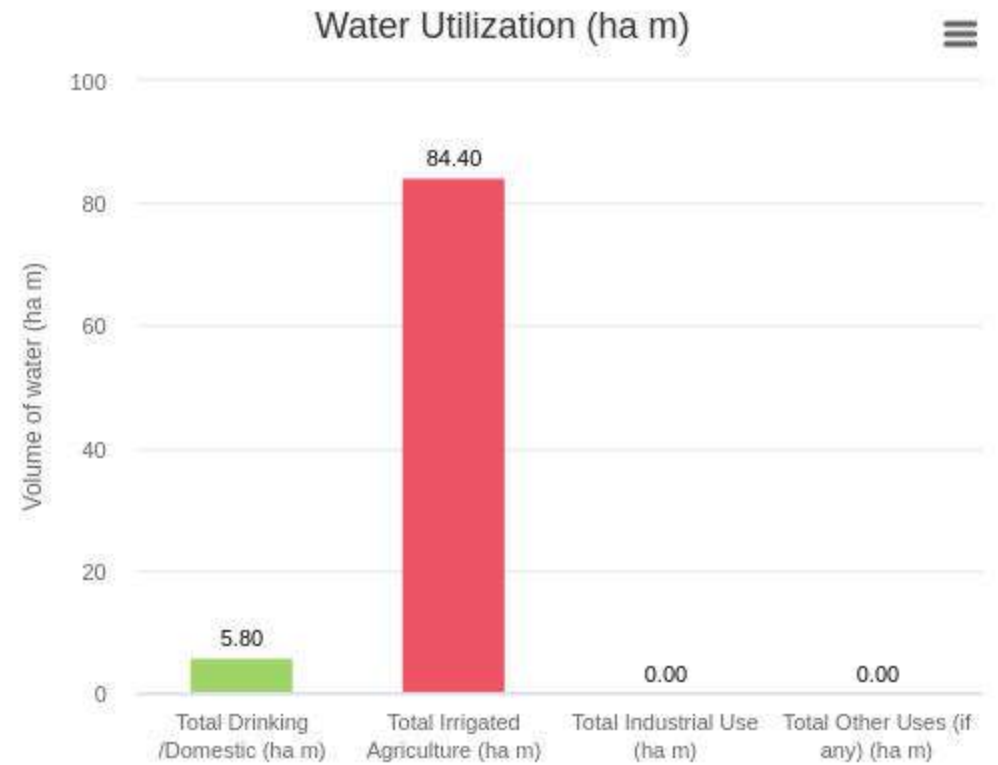
Water Availability Report

Water Availability		
1.	Total Available Water From Rainfall	
a.	Annual Rainfall (mm)	675.80
b.	Estimated Volume of Rainfall (ha m)	50.01
c.	Evapotranspiration rate (mm)	378.43
d.	Estimated Evapotranspiration losses (ha m)	28.00
e.	Estimated Water Available From Rainfall (ha m)	22.01
f.	Weighted Average Runoff Coefficient	0.30
g.	Rainfall Runoff(ha m)	6.60
2.	Ground Water	
a.	Recharge From Rainfall (ha m)	
(i)	Monsoon	4.96
(ii)	Non-Monsoon	0.06
	Total Ground Water Recharge from rainfall (ha m)	5.02
b.	Ground Water Recharge from other sources (ha m)	
(i)	Monsoon	5.72
(ii)	Non-Monsoon	6.98
	Total Ground Water Recharge from other sources (ha m)	12.70
c.	Losses Due to Natural Discharge (ha m)	0.89
	Total Ground Water Available (ha m)	16.83
d.	Ground Water Withdrawal (ha m)	10.91
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	5
	Total Storage Capacity of the surface water bodies (ha m)	5.00
(ii)	Losses if Any (%)	30.00
(iii)	Surface Water Available in Storages (ha m)	3.50
b.	Transported Water from outside GP area (ha m)	
	Total Surface Water Available (ha m)	3.50
4.	TOTAL WATER AVAILABLE	
	TOTAL WATER AVAILABLE (ha m)	20.33



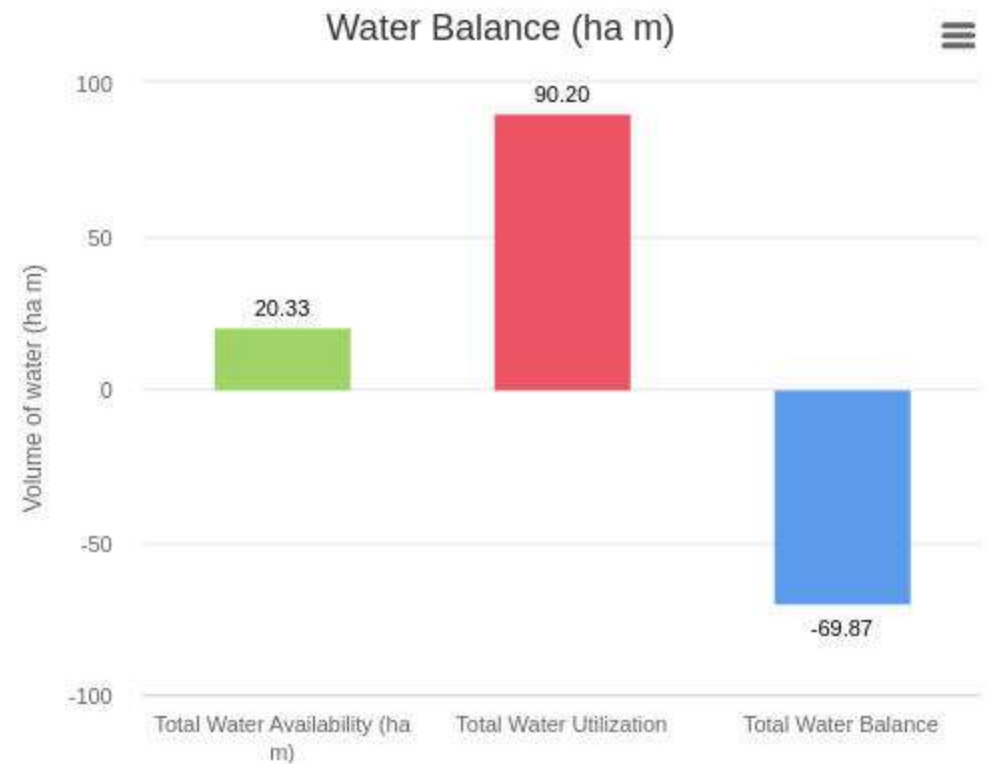
Water Utilization Report

Water Utilization		
A	Drinking /Domestic (ha m)	
i)	From Surface Water	0.42
ii)	From Ground Water	5.38
	Total Drinking /Domestic (ha m)	5.80
B	Irrigated Agriculture (ha m)	
i)	From Surface Water	0.00
ii)	From Ground Water	84.40
	Total Irrigated Agriculture (ha m)	84.40
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

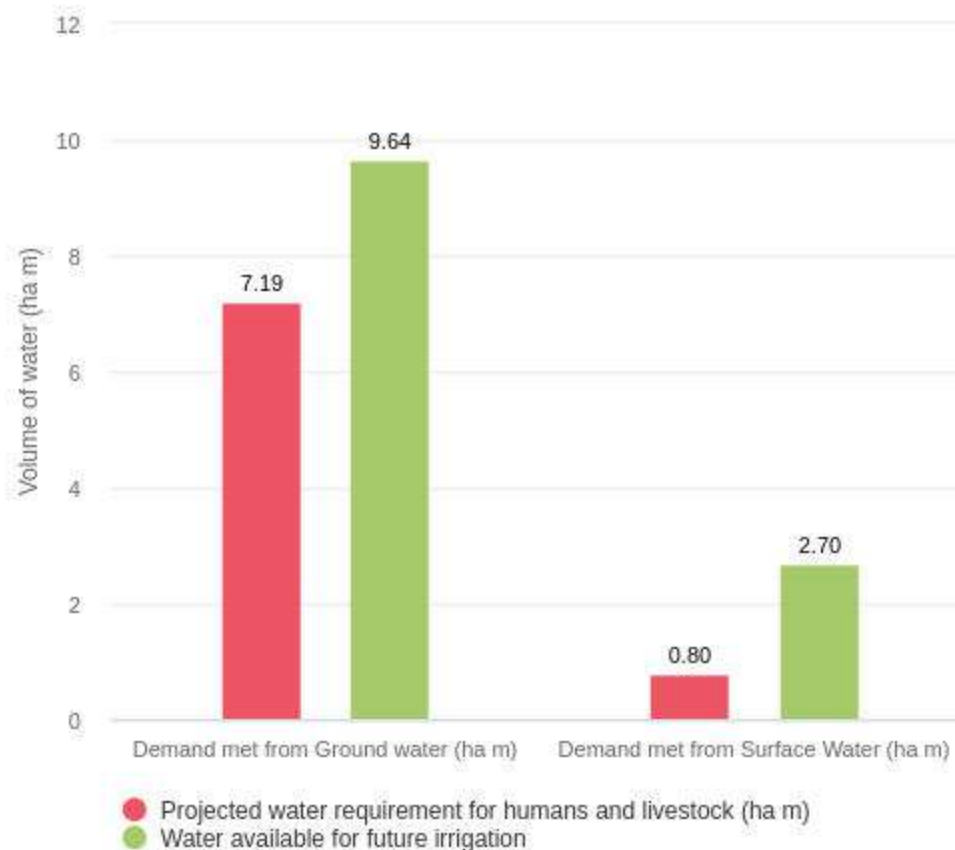
Water Balance		
A	Water Availability (ha m)	
i)	Total Ground Water Available	16.83
ii)	Total Surface Water Available	3.50
	Total Water Availability (ha m)	20.33
B	Water Utilization (ha m)	
i)	Total Surface Water Utilization	0.42
ii)	Total Ground Water Utilization	89.78
	Total Water Utilization	90.20
C	Balance [Surplus (+) / Deficit (-)]	
i)	Total Ground Water Balance	-72.95
ii)	Total Surface Water Balance	3.08
	Total Water Balance	-69.87



Water Budget Report

A Allocation for Drinking & Domestic Requirements	
I Humans	
i) Present Human Population	1850.00
ii) Annual population growth rate (r)	1.20
iii) No. of years	28.00
iv) Projected human population (as in 2050)	2584.00
v) Per capita requirement (L)	55.00
vi) Projected water requirement for humans (as in 2050) (ha m)	5.19
II Livestock	
i) Present livestock population	510.00
ii) Annual population growth rate (r)	1.05
iii) No. of years	28.00
iv) Projected livestock population (as in 2050)	683.00
v) Average per capita requirement (L)	112.21
vi) Projected water requirement for livestock (as in 2050) (ha m)	2.80
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)	7.98
i) Proposed share to be met from Ground water (in %)	90.00
ii) Proposed share to be met from Surface water (in %)	10.00
iii) Demand met from Ground water (ha m)	7.19
iv) Demand met from Surface water (ha m)	0.80
C Water available for future irrigation	
i) Ground Water	9.64
ii) Surface water	2.70
iii) Total water available for future irrigation	12.35

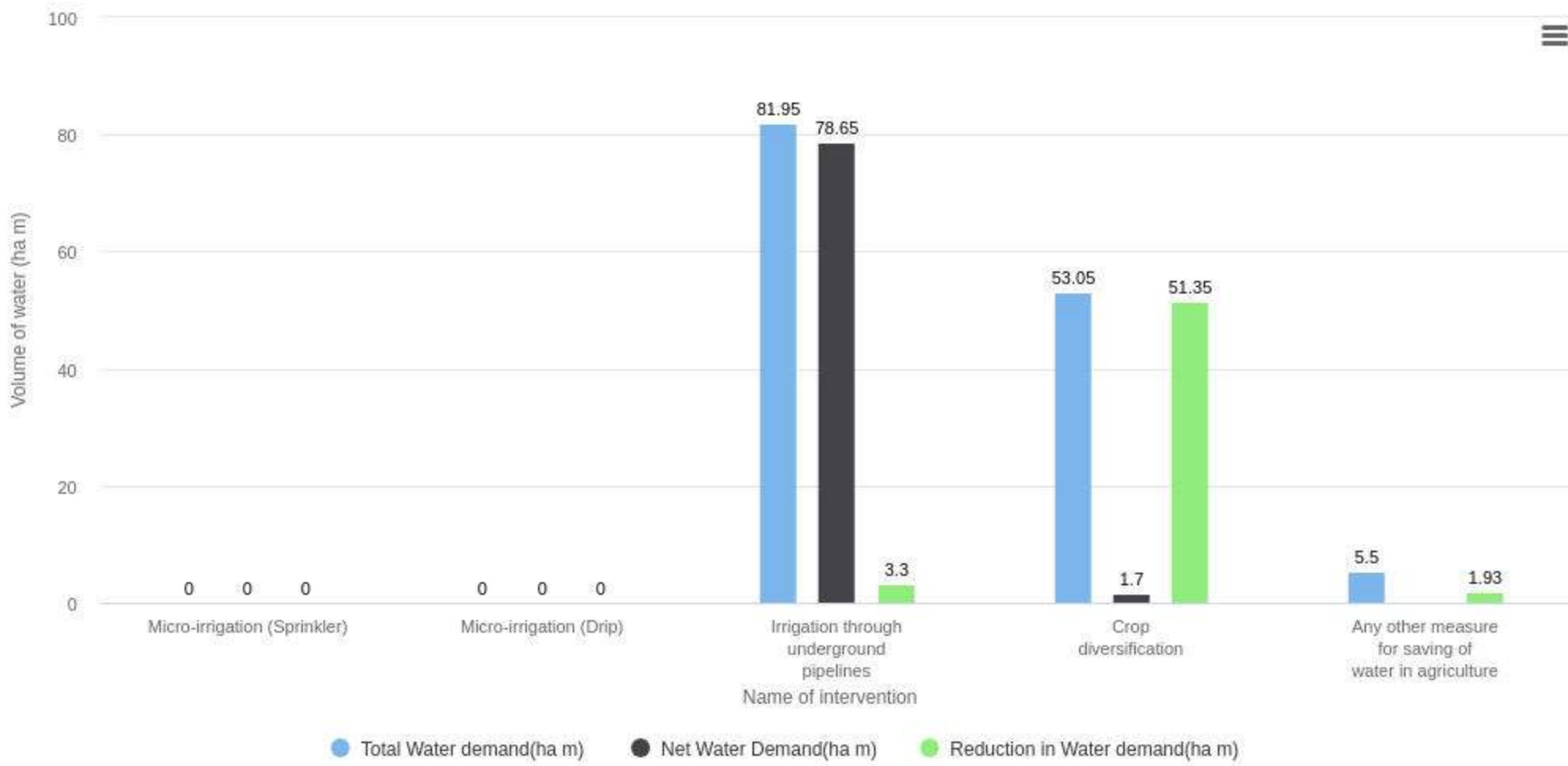
Projected Water Budget for future use (for year 2050)



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	0.00	0.00	0.00	0.00	0.00
2	Drip	0.00	0.00	0.00	0.00	0.00
3	Pipelines	20.00	81.95	78.65	3.30	12.00
4	Crop Diversification	4	53.05	1.70	51.35	0.70
5	Other Measures	5.00	5.50	--	1.93	0.48
	Total	29.00	140.50	80.35	56.58	13.18

Funding Source						
Sr No	Name of Intervention	Area Proposed (ha)	Financial Year	Department Name	Scheme Name	Approximate Cost(in Lakh)
1	UG Pipelines	20	2023-24	Agriculture Soil & Conservation Office	Rashtriye Krishi VikasYoajan (RKVY)	12
2	Crop Diversification	4	2023-24	Agriculture & Farmer Welfare Department	Mera Pani Meri Virasat(MPMV)	0.7
3	Other Measures	5	2023-24	Department of Agriculture	Other	0.48
	Total	29				13.18

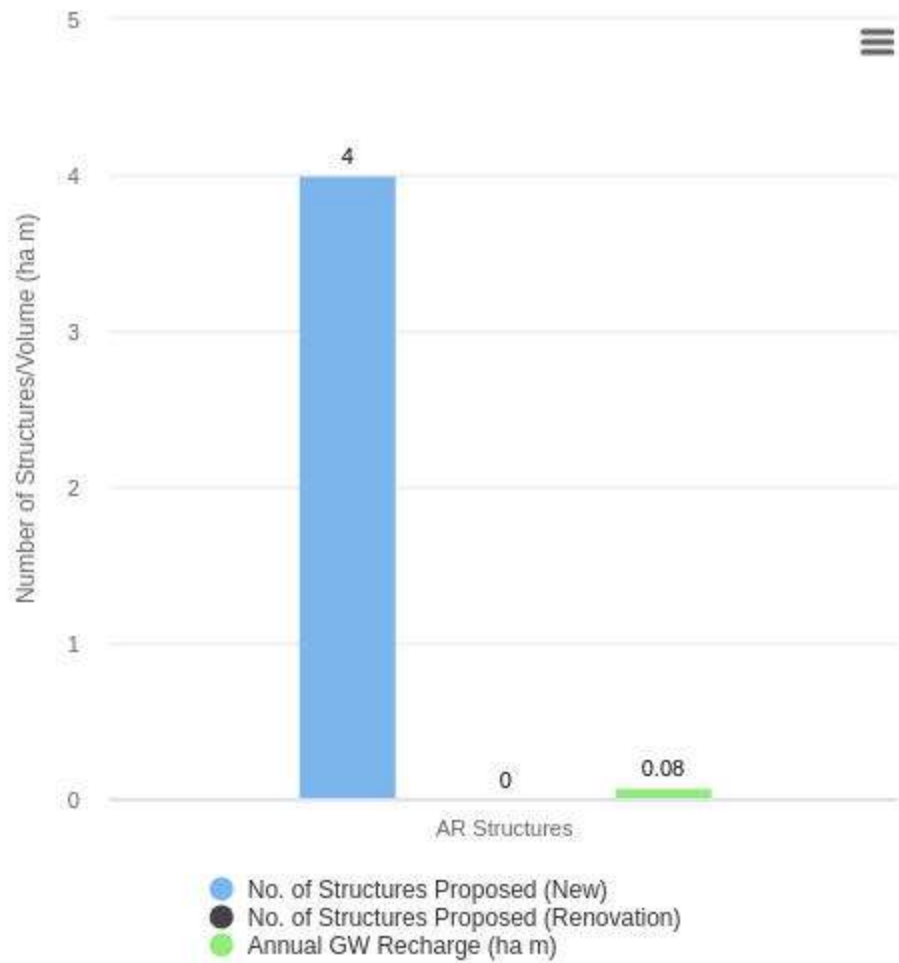


Supply Side (Water Conservation Structures)										
SR No	Name of Structure	Storage Capacity(ha m)	Effective storage available for use (ha m)	Village Name	Latitude	Longitude	Financial Year	Department Name	Scheme Name	Approximate Cost (in Lakhs)
1	Tanka(New)	0.02	0.00	Mirka(28)	28.075738	77.139961	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
2	Tanka(New)	0.02	0.00	Mirka(28)	28.074039	77.13908	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
3	Tanka(New)	0.02	0.00	Mirka(28)	28.074688	77.139825	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
4	Tanka(New)	0.02	0.00	Mirka(28)	28.074239	77.138627	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
5	Tanka(New)	0.02	0.00	Mirka(28)	28.075943	77.14008	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
6	Tanka(New)	0.02	0.00	Mirka(28)	28.076172	77.140523	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
7	Tanka(New)	0.02	0.00	Mirka(28)	28.076574	77.139728	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
8	Tanka(New)	0.02	0.00	Mirka(28)	28.07664	77.139338	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
9	Tanka(New)	0.02	0.00	Mirka(28)	28.076671	77.138851	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
10	Tanka(New)	0.02	0.00	Mirka(28)	28.074983	77.139013	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
11	Tanka(New)	0.02	0.00	Mirka(28)	28.074692	77.13957	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
12	Tanka(New)	0.02	0.00	Mirka(28)	28.074979	77.139829	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
13	Tanka(New)	0.02	0.00	Mirka(28)	28.074498	77.138706	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
14	Tanka(New)	0.02	0.00	Mirka(28)	28.074723	77.139061	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98

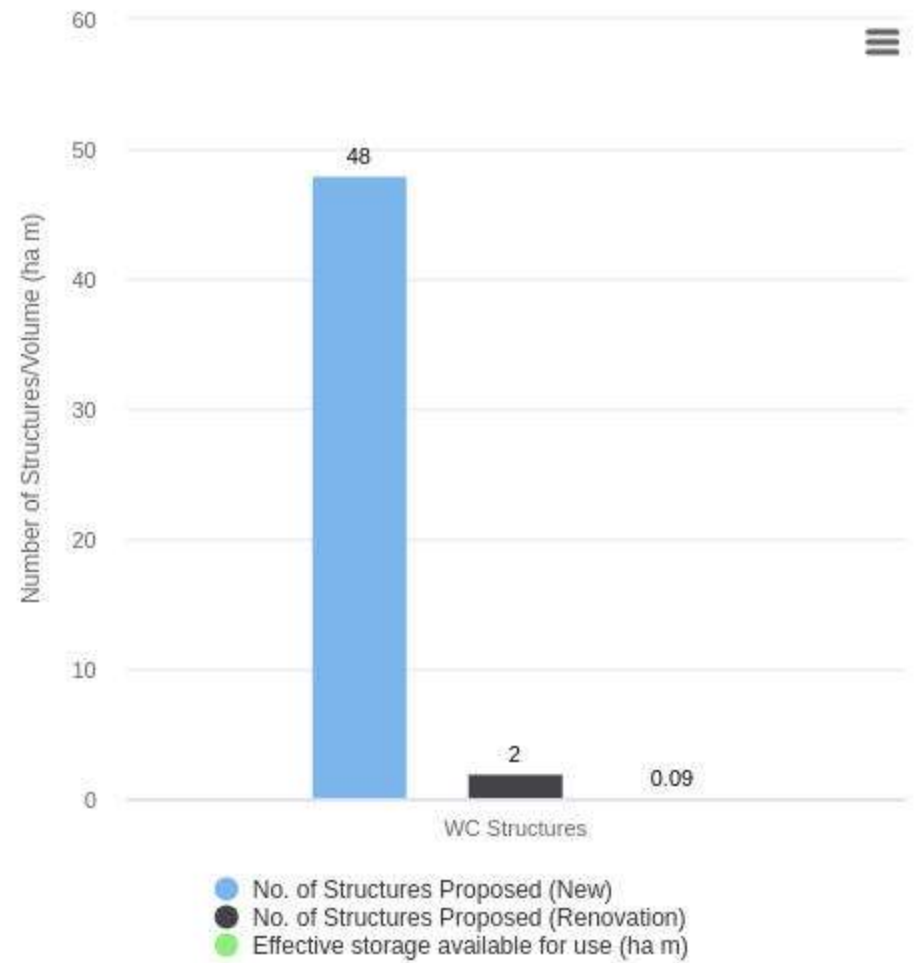
Supply Side (Water Conservation Structures)										
SR No	Name of Structure	Storage Capacity(ha m)	Effective storage available for use (ha m)	Village Name	Latitude	Longitude	Financial Year	Department Name	Scheme Name	Approximate Cost (in Lakhs)
15	Tanka(New)	0.02	0.00	Mirka(28)	28.07525	77.139996	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
16	Tanka(New)	0.02	0.00	Mirka(28)	28.075413	77.139123	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
17	Tanka(New)	0.02	0.00	Mirka(28)	28.074936	77.137832	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
18	Tanka(New)	0.02	0.00	Mirka(28)	28.075103	77.137894	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
19	Tanka(New)	0.02	0.00	Mirka(28)	28.074921	77.137363	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
20	Tanka(New)	0.02	0.00	Mirka(28)	28.074797	77.138197	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
21	Tanka(New)	0.02	0.00	Mirka(28)	28.075393	77.136889	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
22	Tanka(New)	0.02	0.00	Mirka(28)	28.075676	77.137701	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
23	Tanka(New)	0.02	0.00	Mirka(28)	28.07544	77.1381	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
24	Tanka(New)	0.02	0.00	Mirka(28)	28.075401	77.138425	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
25	Tanka(New)	0.02	0.00	Mirka(28)	28.074746	77.137661	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
26	Tanka(New)	0.02	0.00	Mirka(28)	28.075292	77.138925	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
27	Tanka(New)	0.02	0.00	Mirka(28)	28.075742	77.139162	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
28	Tanka(New)	0.02	0.00	Mirka(28)	28.075738	77.139575	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98

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)
29	Tanka(New)	0.02	0.00	Mirka(28)	28.075595	77.139772	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
30	Tanka(New)	0.02	0.00	Mirka(28)	28.076137	77.139952	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
31	Tanka(New)	0.02	0.00	Mirka(28)	28.076292	77.138859	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
32	Tanka(New)	0.02	0.00	Mirka(28)	28.07623	77.137951	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
33	Tanka(New)	0.02	0.00	Mirka(28)	28.075835	77.137714	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
34	Tanka(New)	0.02	0.00	Mirka(28)	28.07592	77.138627	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
35	Tanka(New)	0.02	0.00	Mirka(28)	28.075777	77.138921	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
36	Tanka(New)	0.02	0.00	Mirka(28)	28.075792	77.140619	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
37	Tanka(New)	0.02	0.00	Mirka(28)	28.076036	77.13911	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
38	Tanka(New)	0.02	0.00	Mirka(28)	28.076257	77.138991	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
39	Tanka(New)	0.02	0.00	Mirka(28)	28.075517	77.13914	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
40	Tanka(New)	0.02	0.00	Mirka(28)	28.075165	77.139935	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
41	Tanka(New)	0.02	0.00	Mirka(28)	28.074653	77.139821	2023-24	Irrigation & Water Resource Development	Other - atal bhujal yojna	0.98
42	Tanka(New)	0.02	0.00	Mirka(28)	28.075413	77.138789	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	Jafran parveen	chairperson	Male	9996569444
2	Nazama	member	Female	9813311045
3	Sahabuddin	member	Male	9813464573
4	Yushuf Khan	member	Male	8396045966
5	Ram Pal	member	Male	893074368
6	Tabussum Jasmin	member	Female	8053958919
7	Hajrati	member	Female	9813477193
8	Jyoti	member	Female	9991279986
9	Sunil kumar	member	Male	9541799833
10	Jai Bhagwan	member	Male	9671603316
11	SABIR HUSSAIN	member	Male	9813561286
12	OM PRAKASH	member	Male	9717755965
13	laxman dash	secretary	Male	9466448668

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	Meerka_28824	2023-09-06	Meerka_28824	Mirka(28)	sarpanch ki baithak	11	10	0	21

Photograph



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

Mirka 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 - मीरका
शतक - दहीन
जिला - पलवल

उद्देश:- जल सुरक्षा योजना में संसोधन ।

आज दिनांक 6/12/23 को DAP Team द्वारा ग्राम पंचायत मीरका में स्थान सरपंच की बैठक पर अटल मुजल योजना के तहत जल सुरक्षा योजना हेतु बैठक का आयोजन किया गया जिसमें अटल मुजल योजना के परिचय पर मिर से चर्चा की गई। और मीथिंग में सरपंच व PWSA के सदस्यों सहित अन्य ग्रामवासियों की राय से ग्राम पंचायत के लिए जल सुरक्षा योजना जो पहले बनाई गई थी उसमें संसोधन करने हेतु चर्चा की गई।


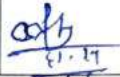
निष्कर्ष:- गांव में जोड की सफाई कराई जाये व सिंचाई हेतु OPPL सिस्टम लगाया जाये और क्लस्टर बिबिधिकरण कराया जाये। और लेजर लैंड लेबलर द्वारा खेती की जाये व धरो में टांका का निर्माण कराया जाये। उपयुक्त सभी कार्य जल सुरक्षा योजना में संसोधन किये जाये और सरपंच सहित अन्य ग्रामवासियों की उपस्थिती में विनियम रेगुलेशन पारित किया गया।

ANNEXURE III

RESOLUTION

Date: 6/9/23

It is hereby resolved that the Water Budget/ Water Security Plan (WSP) of Meeska Gram Panchayat, Hathiga Block/Taluk/Mandal, Palwal District, Haryana 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 6/9/23.

S. NO.	DESIGNATION	NAME	SIGNATURES
1	Gram Panchayat Adhyaksha (Sarpanch)/President of VWSC/ Presiding officer of the meeting	Jafar Parveen	
2	Gram Panchayat Secretary	Laxman Das	 6/9

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	Jagdeep Parkash	F	OBC	Sabharwal	Yes	VWSC	>5	9671813769	
2	Majumdar	F	OBC	Member	Yes	VWSC	—	981331045	
3	Babulach	M	OBC	Member	Yes	VWSC	<2.5	9813464573	साधुकिंग
4	Mahesh Khan	M	OBC	Member	Yes	VWSC	<2.5	8396045966	शशिपु शर्मा
5	Ramesh Lal	M	OBC	3 worker	Yes	VWSC	2.5-5	9930740620	रामपल्ल
6	Talwar Singh	F	OBC	3 worker	Yes	VWSC	—	8053059919	तारुसुम टालवरी
7	Mahesh	F	OBC	3 worker	Yes	VWSC	—	9813743192	हजारी
8	Prakash Kumar	M	SC	3 worker	Yes	VWSC	—	9991279688	ज्योति
9	Prakash Kumar	M	SC	3 worker	Yes	VWSC	<2.5	9991279688	आर.के.
10	Prakash Kumar	M	OBC	Farmer	No	No	<2.5	8188727045	अमित शर्मा
11	Talwar	M	OBC	Farmer	No	No	2.5-5	—	तारीक
12	Khan	M	OBC	Farmer	No	No	<2.5	9817740807	Khan
13	Prakash	F	OBC	Farmer	No	No	>5	—	प्रकाश
14	Prakash	F	OBC	Farmer	No	No	—	8128486450	प्रकाश
15	Prakash	F	OBC	House	No	No	—	—	प्रकाश

