

Water Security Plan Report

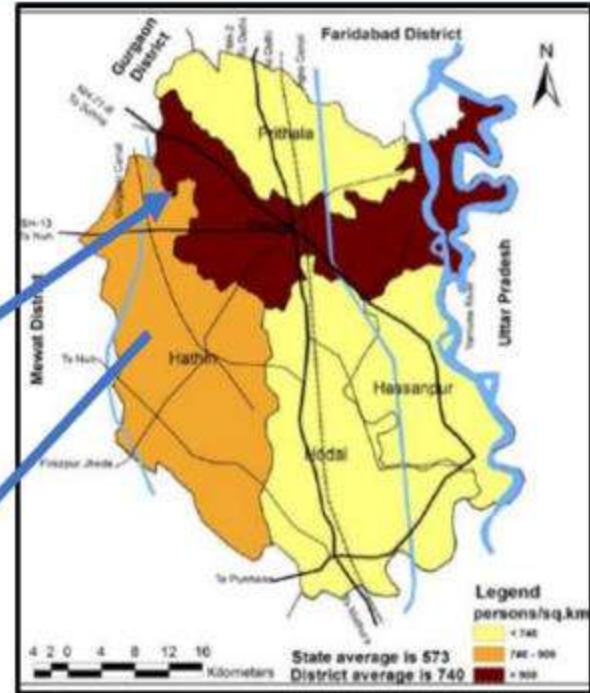
Date : 30-09-2023 Time : 2:35 PM User Name : xen.ataljal@gmail.com

STATE: HARYANA_6 » DISTRICT: PALWAL_619 » BLOCK: HATHIN_466 » GRAM PANCHAYAT: MANGORKA_28823 » YEAR: 2023-24 »

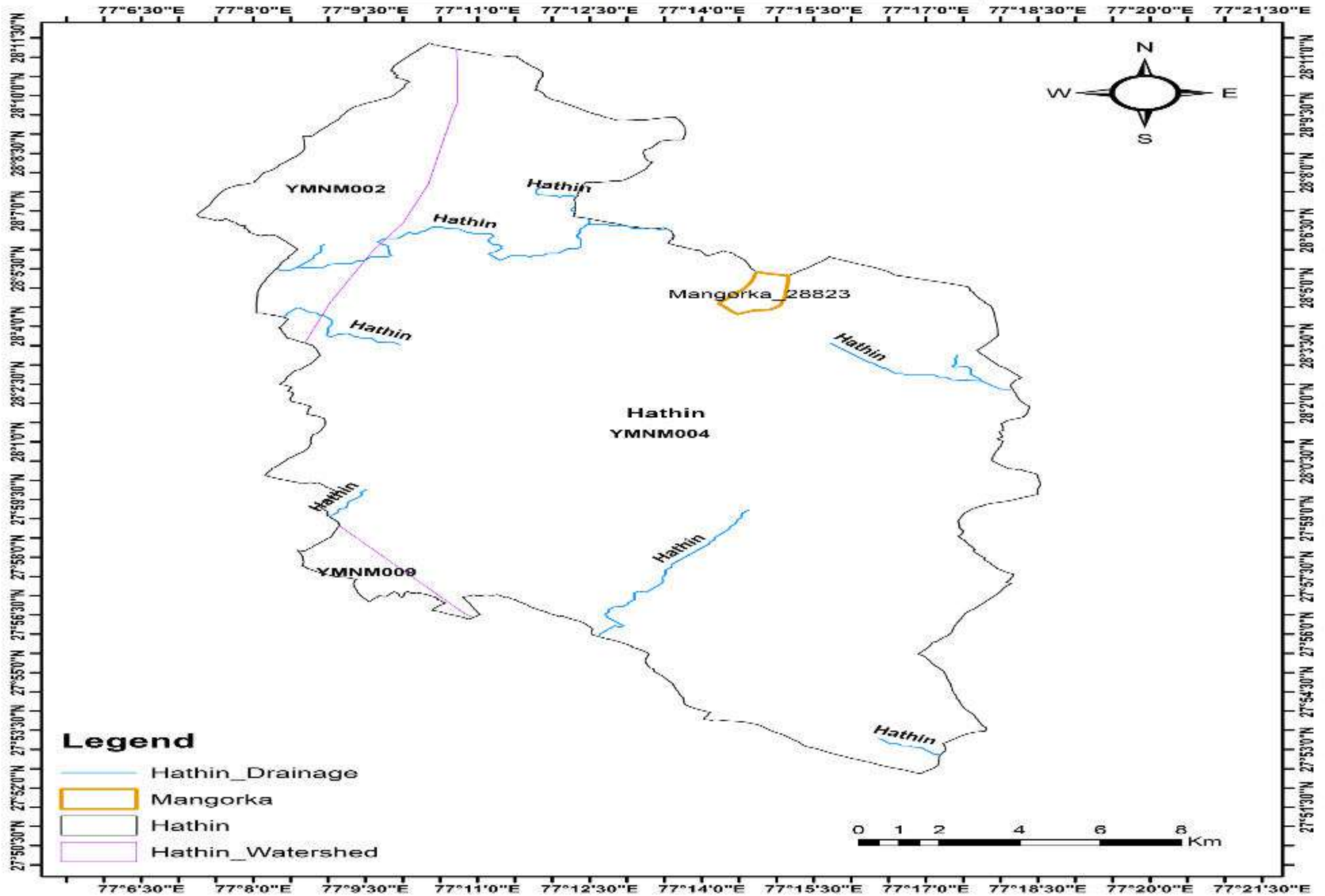
Gram Panchayat Information

State:	Haryana_6	District:	Palwal_619
Block / Taluk :	Hathin_466	GP Name :	Mangorka_28823
GP ID :	28823	Block Area (Ha) :	35990.49
GP area (Ha) :	182.00	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 Mangoraka Grampanchayat



Mangorka: Drainage & Watershed Map



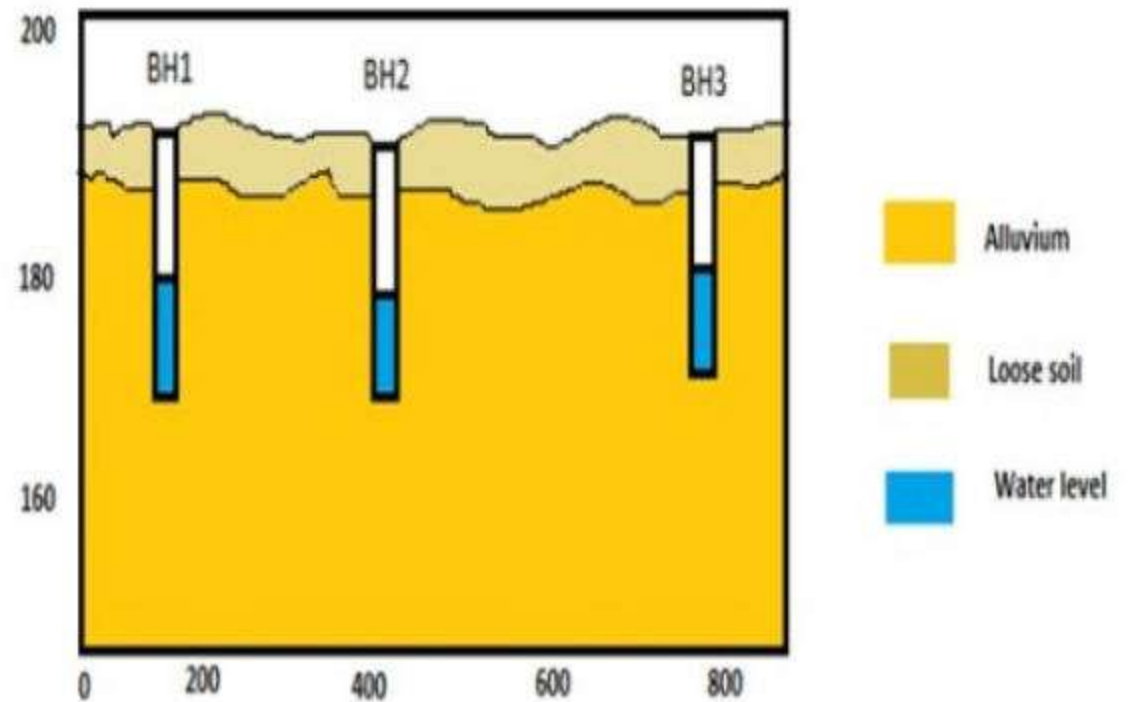
Aquifer Map of Mangoraka Grampanchyat



Aquifer Information	
Aquifer Code	AL03
Major Aquifer	Older Alluvium(Silt/sand/gravel/ Lith organic clay)
Aquifer Age	<u>Quaternary</u>
Principal Aquifer	Alluvium

 Alluvium, AL03

Profile Map



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	Mangorka	Khet wala kua	28.08566	77.24712	59:22.4	028823-001	Dug Well	null	Government	SGWB	2.93	12	0.42	3.1	23-04-23
	Mangorka	Khet wala kua	28.08566	77.24712	59:22.4	028823-001	Dug Well	null	Government	SGWB	2.93	12	0.42	3.18	21-05-23
	Mangorka	Khet wala kua	28.08566	77.24712	59:22.4	028823-001	Dug Well	null	Government	SGWB	2.93	12	0.42	2.08	26-08-23
	Mangorka	Khet wala kua	28.08566	77.24712	59:22.4	028823-001	Dug Well	null	Government	SGWB	2.93	12	0.42	2.02	23-09-23
	Mangorka	Khet wala kua	28.08566	77.24712	59:22.4	028823-001	Dug Well	null	Government	SGWB	2.93	12	0.42	3	25-07-23
	Mangorka	Khet wala kua	28.08566	77.24712	59:22.4	028823-001	Dug Well	null	Government	SGWB	2.93	12	0.42	3.2	27-06-23

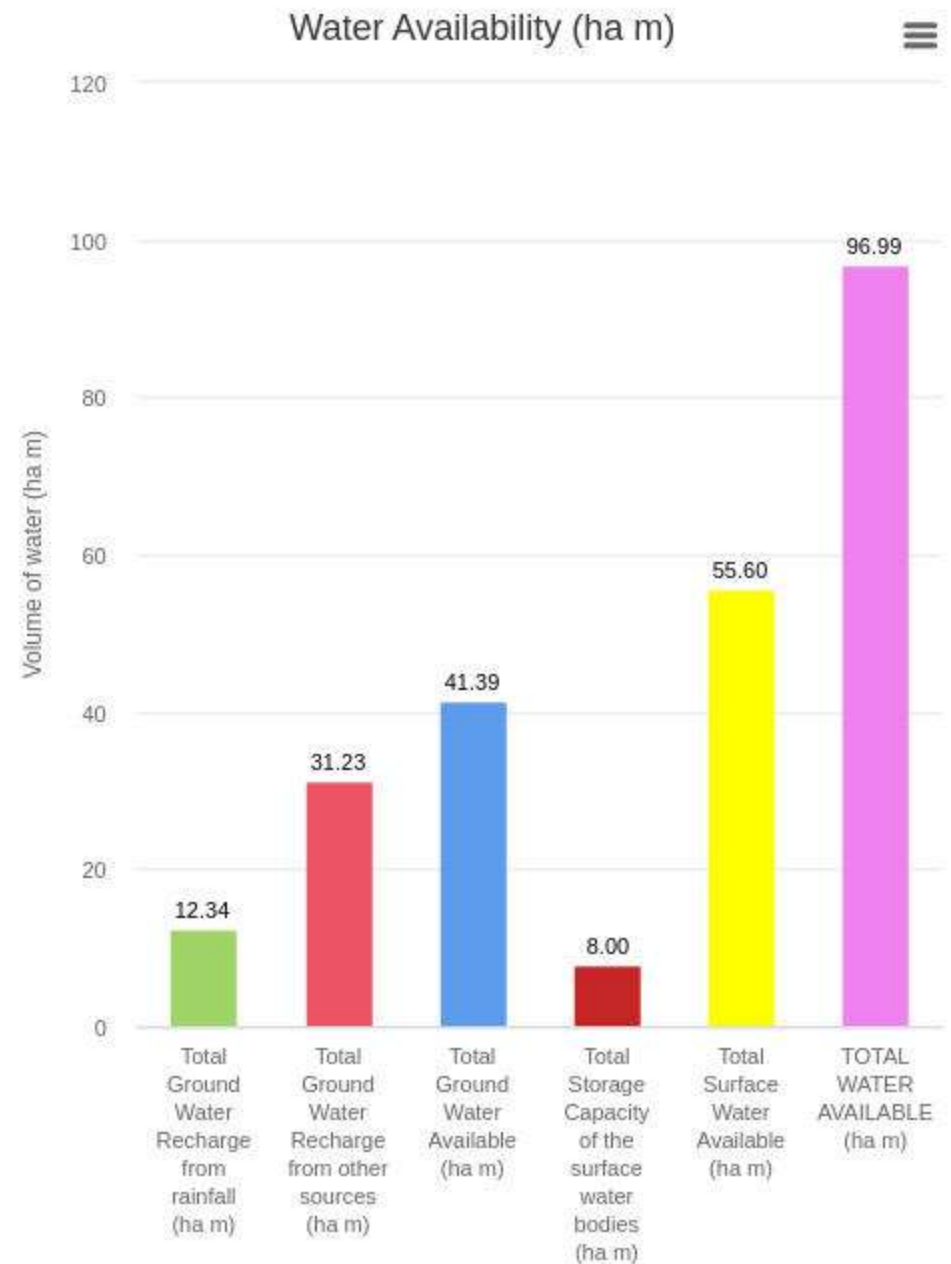
Ground Water Quality

S.No.	Village Name	Location	Latitude	Longitude	Year	Well Type	Source	Well ID
1	MANGORKA	MANGORKA	28.0805	77.2509	2022	Tube Well	I&WRD	PAL/HAT/MKA/001
2	MANGORKA	MANGORKA	28.0825	77.249199	2022	Tube Well	I&WRD	PAL/HAT/MKA/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/MKA/001	18	ALLUVIAL	7.6	6854	4112	680	124.8	89.4	1196	13.8	0	294	628	1359	1.2	19
2	PAL/HAT/MKA/002	18	ALLUVIAL	7.3	1800	1080	400	72.2	53.3	162	1.6	0	240	124	250	0.44	6.5

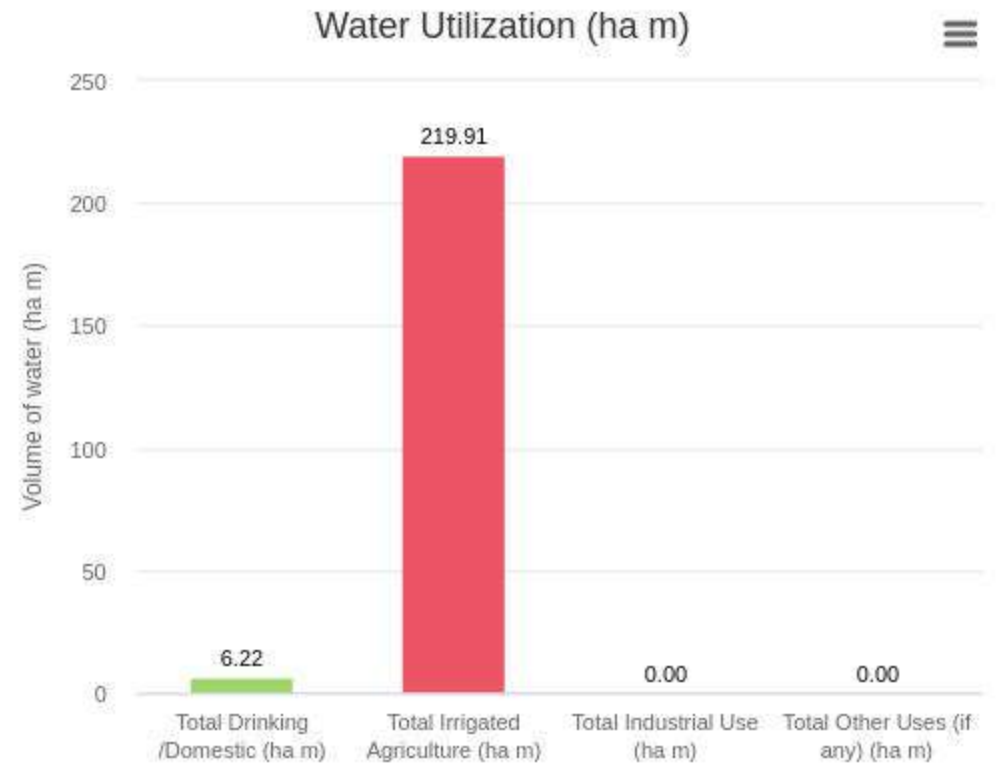
Water Availability Report

Water Availability		
1.	Total Available Water From Rainfall	
a.	Annual Rainfall (mm)	675.80
b.	Estimated Volume of Rainfall (ha m)	123.00
c.	Evapotranspiration rate (mm)	378.43
d.	Estimated Evapotranspiration losses (ha m)	68.87
e.	Estimated Water Available From Rainfall (ha m)	54.13
f.	Weighted Average Runoff Coefficient	0.30
g.	Rainfall Runoff(ha m)	16.24
2.	Ground Water	
a.	Recharge From Rainfall (ha m)	
(i)	Monsoon	12.19
(ii)	Non-Monsoon	0.15
	Total Ground Water Recharge from rainfall (ha m)	12.34
b.	Ground Water Recharge from other sources (ha m)	
(i)	Monsoon	14.06
(ii)	Non-Monsoon	17.17
	Total Ground Water Recharge from other sources (ha m)	31.23
c.	Losses Due to Natural Discharge (ha m)	2.18
	Total Ground Water Available (ha m)	41.39
d.	Ground Water Withdrawal (ha m)	26.83
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	8
	Total Storage Capacity of the surface water bodies (ha m)	8.00
(ii)	Losses if Any (%)	30.00
(iii)	Surface Water Available in Storages (ha m)	5.60
b.	Transported Water from outside GP area (ha m)	
	Total Surface Water Available (ha m)	55.60
4.	TOTAL WATER AVAILABLE	
	TOTAL WATER AVAILABLE (ha m)	96.99



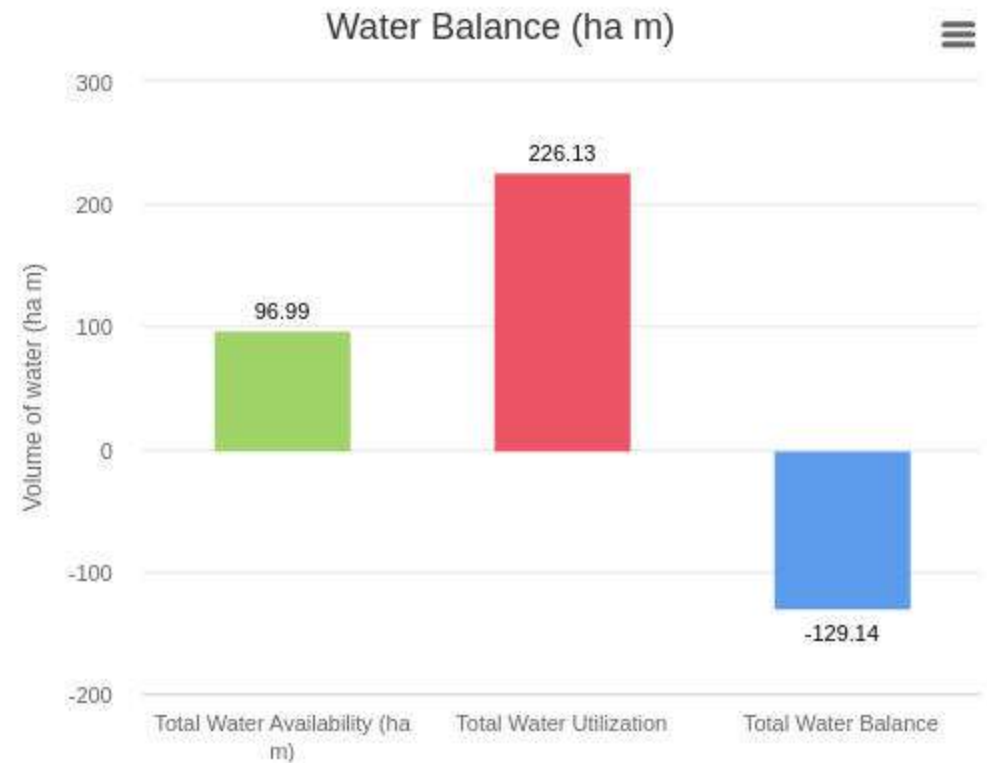
Water Utilization Report

Water Utilization		
A	Drinking /Domestic (ha m)	
i)	From Surface Water	0.52
ii)	From Ground Water	5.70
	Total Drinking /Domestic (ha m)	6.22
B	Irrigated Agriculture (ha m)	
i)	From Surface Water	54.98
ii)	From Ground Water	164.93
	Total Irrigated Agriculture (ha m)	219.91
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

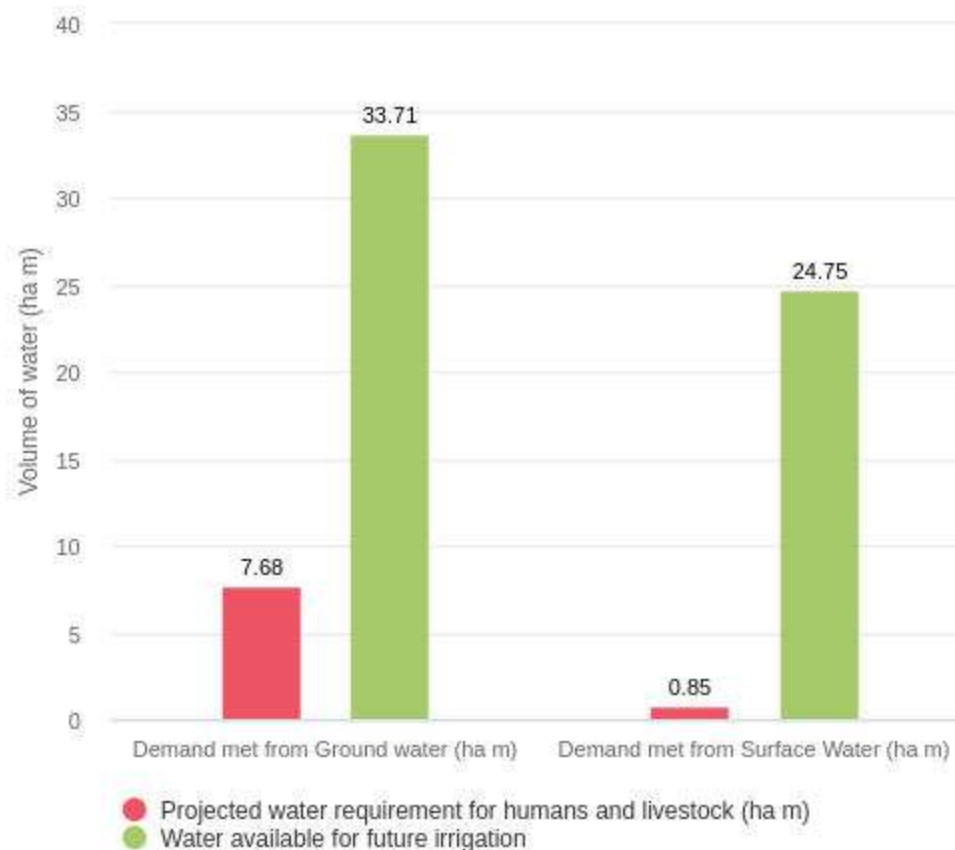
Water Balance		
A	Water Availability (ha m)	
i)	Total Ground Water Available	41.39
ii)	Total Surface Water Available	55.60
	Total Water Availability (ha m)	96.99
B	Water Utilization (ha m)	
i)	Total Surface Water Utilization	55.5
ii)	Total Ground Water Utilization	170.63
	Total Water Utilization	226.13
C	Balance [Surplus (+) / Deficit (-)]	
i)	Total Ground Water Balance	-129.24
ii)	Total Surface Water Balance	0.10
	Total Water Balance	-129.14



Water Budget Report

A Allocation for Drinking & Domestic Requirements	
I Humans	
i) Present Human Population	1806.00
ii) Annual population growth rate (r)	1.20
iii) No. of years	28.00
iv) Projected human population (as in 2050)	2522.00
v) Per capita requirement (L)	55.00
vi) Projected water requirement for humans (as in 2050) (ha m)	5.06
II Livestock	
i) Present livestock population	827.00
ii) Annual population growth rate (r)	1.05
iii) No. of years	28.00
iv) Projected livestock population (as in 2050)	1108.00
v) Average per capita requirement (L)	85.82
vi) Projected water requirement for livestock (as in 2050) (ha m)	3.47
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)	8.53
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)	7.68
iv) Demand met from Surface water (ha m)	0.85
C Water available for future irrigation	
i) Ground Water	33.71
ii) Surface water	24.75
iii) Total water available for future irrigation	58.46

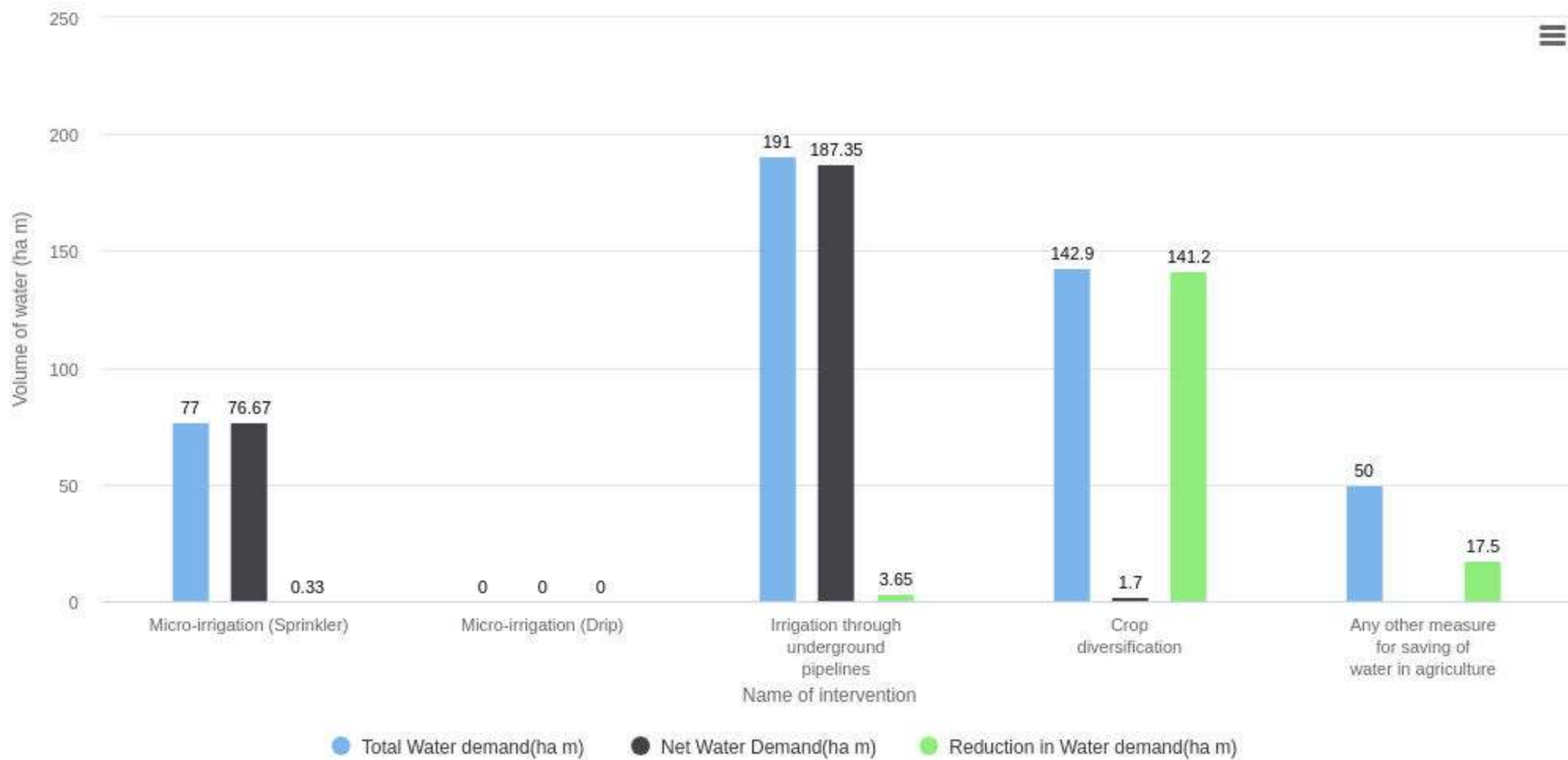
Projected Water Budget for future use (for year 2050)



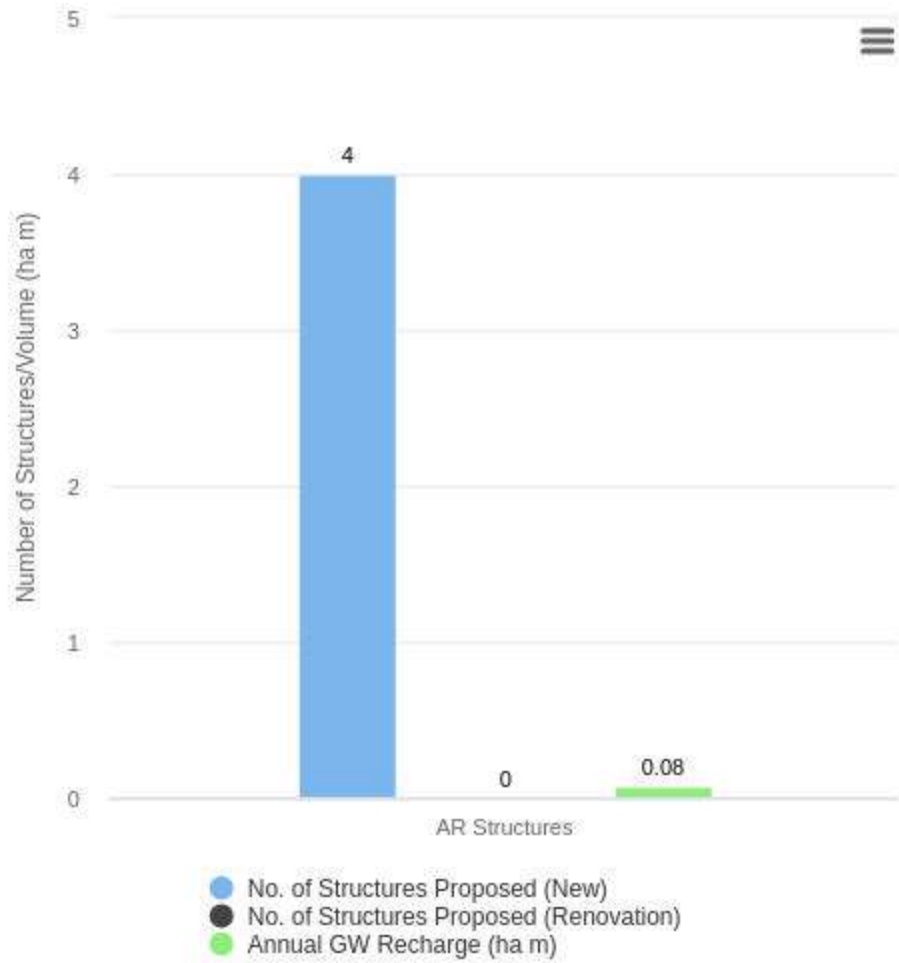
Demand Side

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	77.00	76.67	0.33	2.03
2	Drip	0.00	0.00	0.00	0.00	0.00
3	Pipelines	25.00	191.00	187.35	3.65	15.00
4	Crop Diversification	4	142.90	1.70	141.20	0.70
5	Other Measures	50.00	50.00	--	17.50	2.50
	Total	81.00	460.90	265.72	162.68	20.23

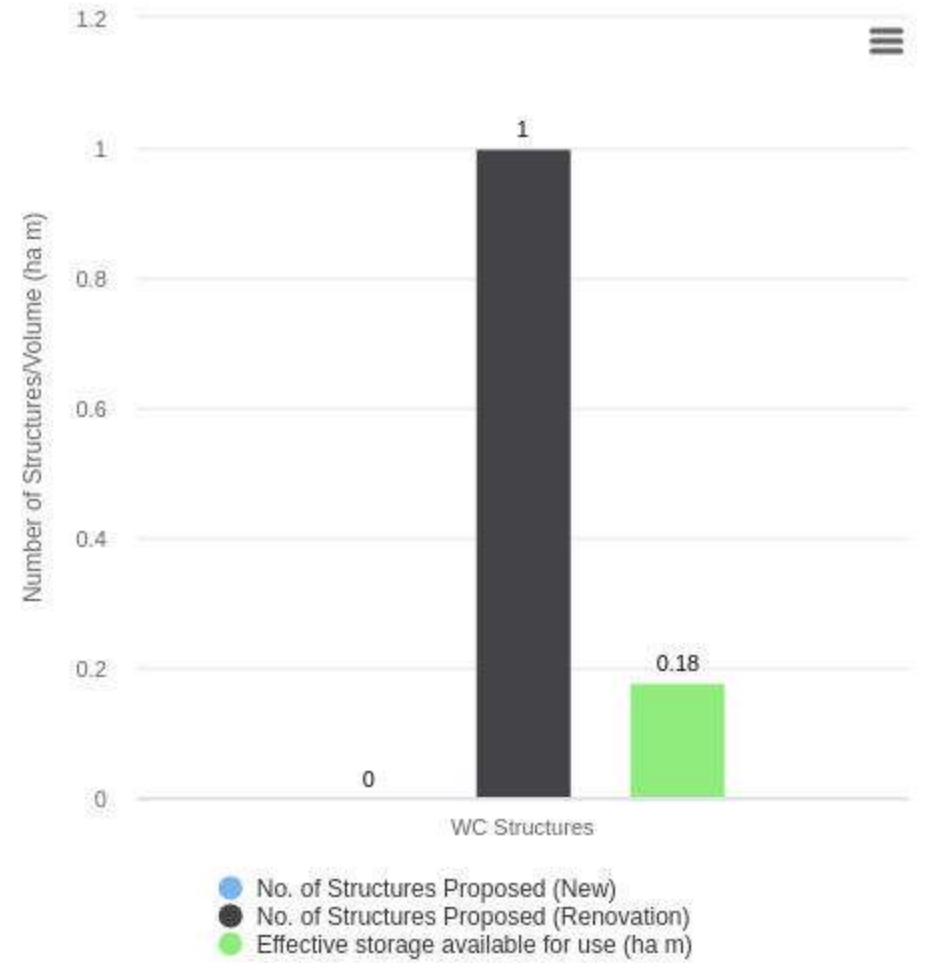
Funding Source						
Sr No	Name of Intervention	Area Proposed (ha)	Financial Year	Department Name	Scheme Name	Approximate Cost(in Lakh)
1	Sprinkler	2	2023-24	MICADA	PMKSY	2.03
2	UG Pipelines	25	2023-24	Agriculture Soil & Conservation Office	Rashtriye Krishi VikasYoajan (RKVY)	15
3	Crop Diversification	4	2023-24	Agriculture & Farmer Welfare Department	Mera Pani Meri Virasat(MPMV)	0.7
4	Other Measures	50	2023-24	Agriculture & Farmer Welfare Department	Other	2.5
	Total	81				20.23



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	KAUSHAR	member	Male	9050800404
2	AAMIR	member	Male	8053179350
3	ISHRAT	chairperson	Male	9813792945
4	SHAGUFTA	member	Female	9354400286
5	NOORJAHAN	member	Female	9817185354
6	AFSANA	member	Female	9991623265
7	SUMAIYA	member	Female	9813386202
8	SAHABU	member	Female	9050339930
9	AFSANA	member	Female	9991927300
10	IKBALI	member	Female	9728202814
11	YUSUF	member	Male	9813792945
12	MUKIM	member	Male	9991085811
13	ANWAR PATHAN	member	Male	8816823508
14	GAURAV SAINI	member	Male	8813936812
15	ANIL KUMAR PANDAY	secretary	Male	9991841025
16	SH. MOHD. ARIF HUSSAIN ANSARI	member	Male	9466602786

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	Mangorka_28823	2023-08-16	Mangorka_28823	Mangoraka(226)	sarpanch ki baithak	11	11	0	22

Photograph




Note cam lite
Latitude : 28.08029174°
Longitude : 77.24817074°
Altitude : 106.0 meter



DPMU DECLARATION



I, MOHIT VARSHI TA (Name), Y. E. N
(Designation), authorized representative under District Program Management Unit
(DPMU) declare that the Water Security Plan (WSP) submitted for the
Mangorka 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:


4/10/20


ग्राम पंचायत - गंगोरका
शतड - दधीन
जिला - पलवल

उद्देश:- जल सुरक्षा योजना में संशोधन ।

आज दिनांक 16/1/23 को DAP Team द्वारा ग्राम पंचायत गंगोरका 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 फिर से चर्चा की गई। और भीषण में सरपंच व PWSL के सदस्यों सहित अन्य ग्रामवासियों की राय से ग्राम पंचायत के लिये जल सुरक्षा योजना जो पहले बनाई गई थी उसमें संशोधन करने हेतु चर्चा की गई।

निष्कर्ष:- गांव में जोडस की सफाई कराई जाये व सिंचाई हेतु कठ्वारा सिस्टम, ड्रिप सिस्टम और UGPL सिस्टम लगाया जाये और कसल विनिधिकरण कराया जाये और लेकर लैंड लेक्चर द्वारा शोती की जाये व धरो में टांका का निर्माण कराया जाये।

उपयुक्त सभी कार्य जल सुरक्षा योजना में संशोधन किये जाये और सरपंच सहित अन्य ग्रामवासियों की उपस्थिति में विनियम (रेग्युलेशन) पारित किया गया।

ANNEXURE III

RESOLUTION

Date: 16/8/23

It is hereby resolved that the Water Budget/ Water Security Plan (WSP) of मंगोरका Gram Panchayat, हथौली 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 16/08/23.

S. NO.	DESIGNATION	NAME	SIGNATURES
1	Gram Panchayat Adhyaksha (Sarpanch)/President of VWSC/ Presiding officer of the meeting	Israt	Israt
2	Gram Panchayat Secretary	Arnil Kumar Panolaj	Arnil 23

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	Taxat	F	OBC	Sarbanch	Yes	WOSC	>5	9213792945	Johant
2	Kosar	F	OBC	Member	Yes	WOSC	—	9850280404	KosAR
3	Aamir	M	OBC	Member	Yes	WOSC	<2.5	9853199350	आमीर
4	Sagufte	F	OBC	Member	Yes	WOSC	—	93551400286	रागुफता
5	Roosjahr	F	OBC	Wife	Yes	WOSC	—	9817185354	रूसजहाँ
6	Afsana	F	OBC	A.G.O	Yes	WOSC	—	9991623265	अफसाना
7	Sumiya	F	OBC	S.W-Ked	Yes	WOSC	—	9813762022	सुमिया
8	Shahab	M	OBC	S.W.Ked	Yes	WOSC	<2.5	9850239920	शहाब
9	Afsana	F	OBC	S.W	Yes	WOSC	—	9991927300	अफसाना
10	Jkuali	F	OBC	S.W	Yes	WOSC	—	9728202814	जकुली
11	Yusuf	M	OBC	S.O	Yes	WOSC	<2.5	9813792945	यूसुफ
12	Hukim	M	OBC	p.oprator	Yes	WOSC	>5	9991025811	हुकीम
13	Aamir	M	OBC	Chokidar	Yes	WOSC	<2.5	9816823508	आमीर
14	Majar	M	OBC	Farmer	No	No	2.5-5	—	—
15	Rahman	M	OBC	Farmer	No	No	2.5-5	—	—

