Water Security Plan Report

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Date : 30/ 03/ 2024 Time : 11:58 AM User Name : Dr. Prabhat

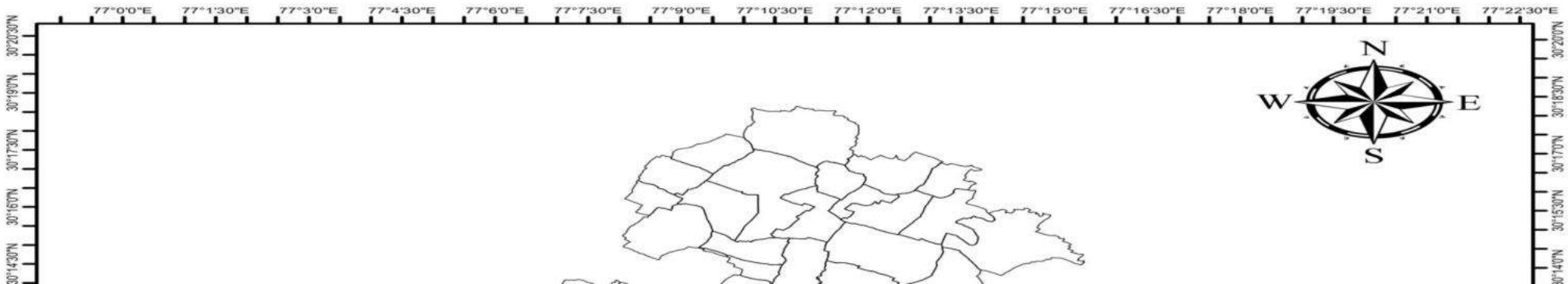
STATE: HARYANA_6 » DISTRICT: YAMUNANAGAR_76 » BLOCK: SARASWATI NAGAR_563 » GRAM PANCHAYAT: RAJPURA_33466 » YEAR: 2024-25 »

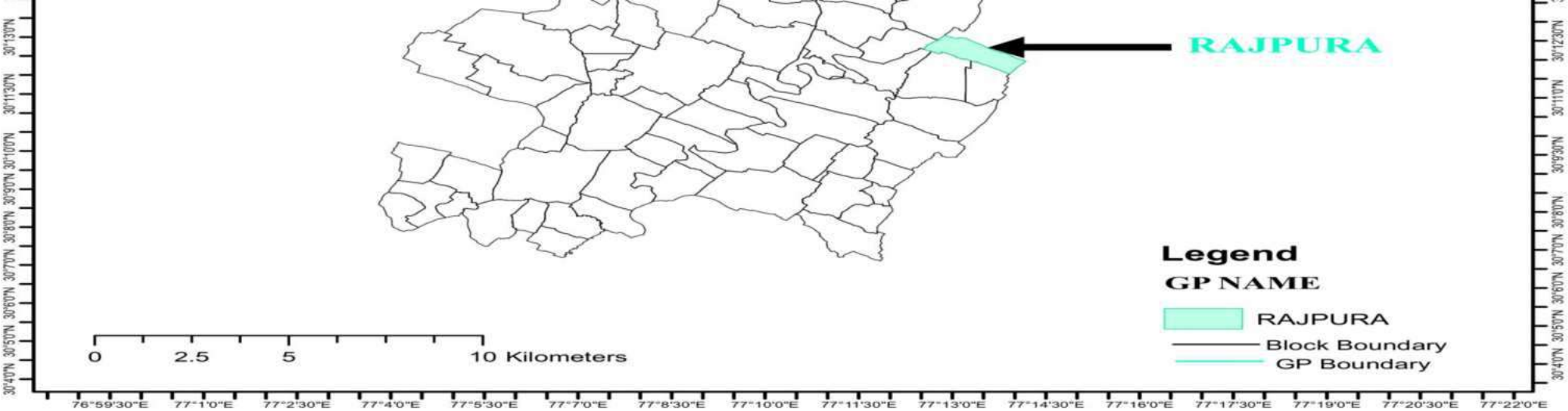
Gram Panchayat Information

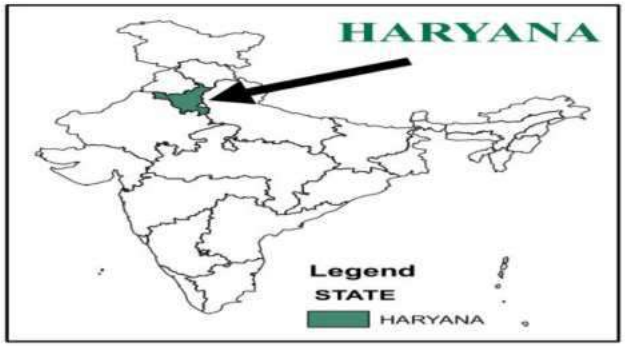
State:	Haryana_6	District:	Yamunanagar_76
Block / Taluk :	Saraswati Nagar_563	GP Name :	Rajpura_33466
GP ID :	33466	Block Area (Ha) :	20267.2000
GP area (Ha) :	193.0000	Watershed Code :	CHNG001
Watershed name :	CHAUTANG NADI	Watershed area in Block / Taluk (Ha) :	286446.27
Sub-basin Code :	1	Sub basin name :	Chautang and Others
Basin Code :	11	Basin Name :	Ghaghar

Location Map

Location Map : GP Rajpura, Block Saraswati Nagar, District Yamunanagar

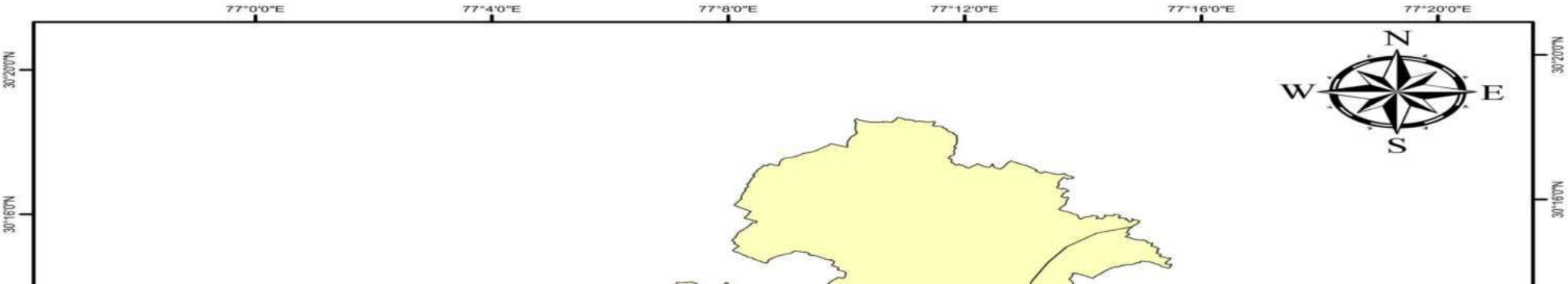


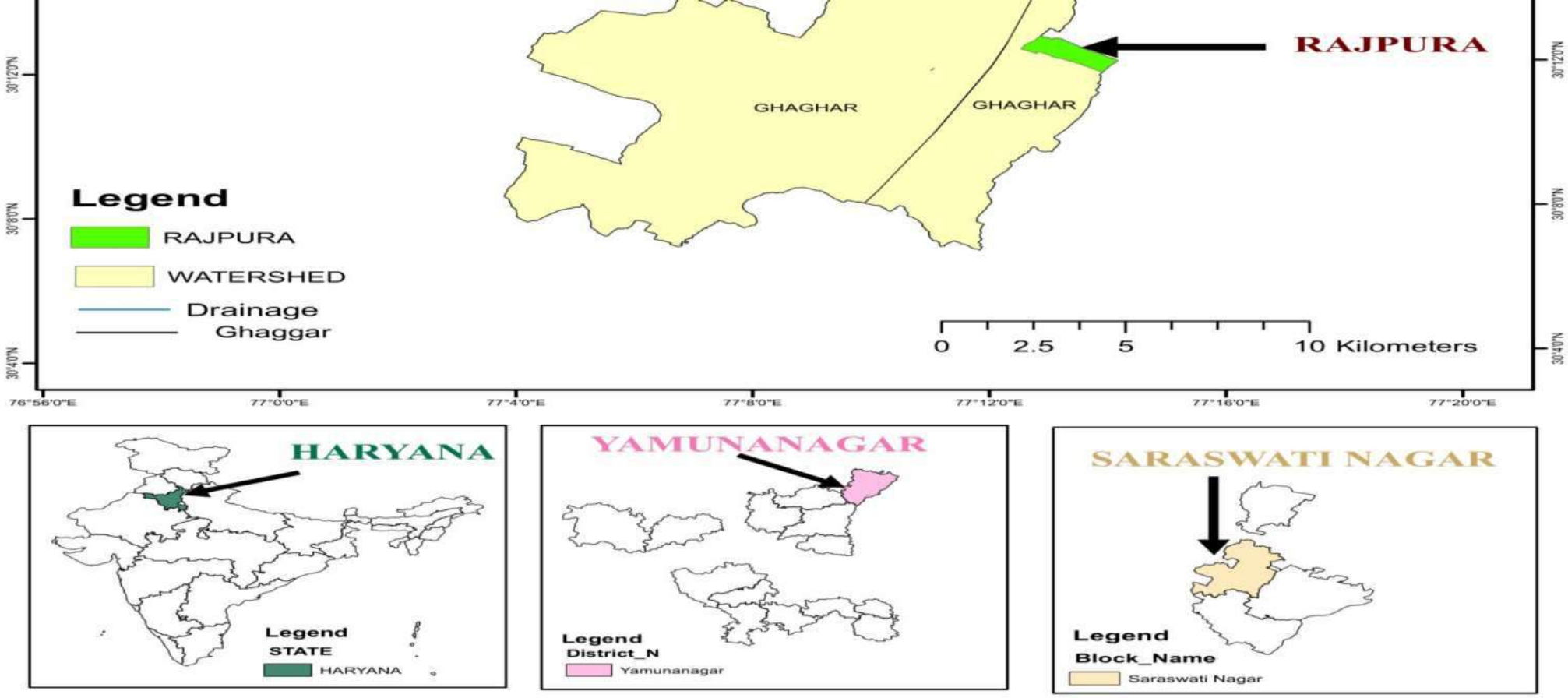




Watershed Map

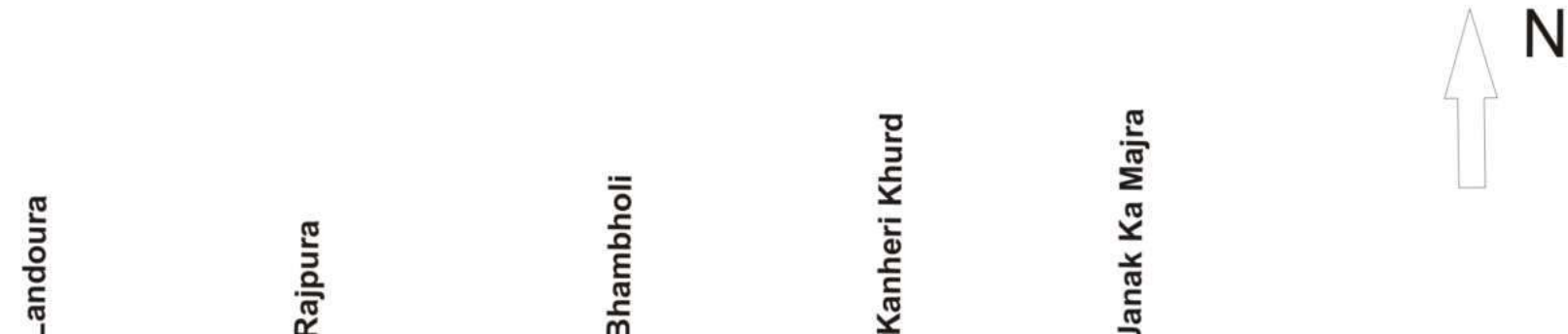
Watershed & Drainage Map : GP Rajpura, Block Saraswati Nagar, District Yamunanagar

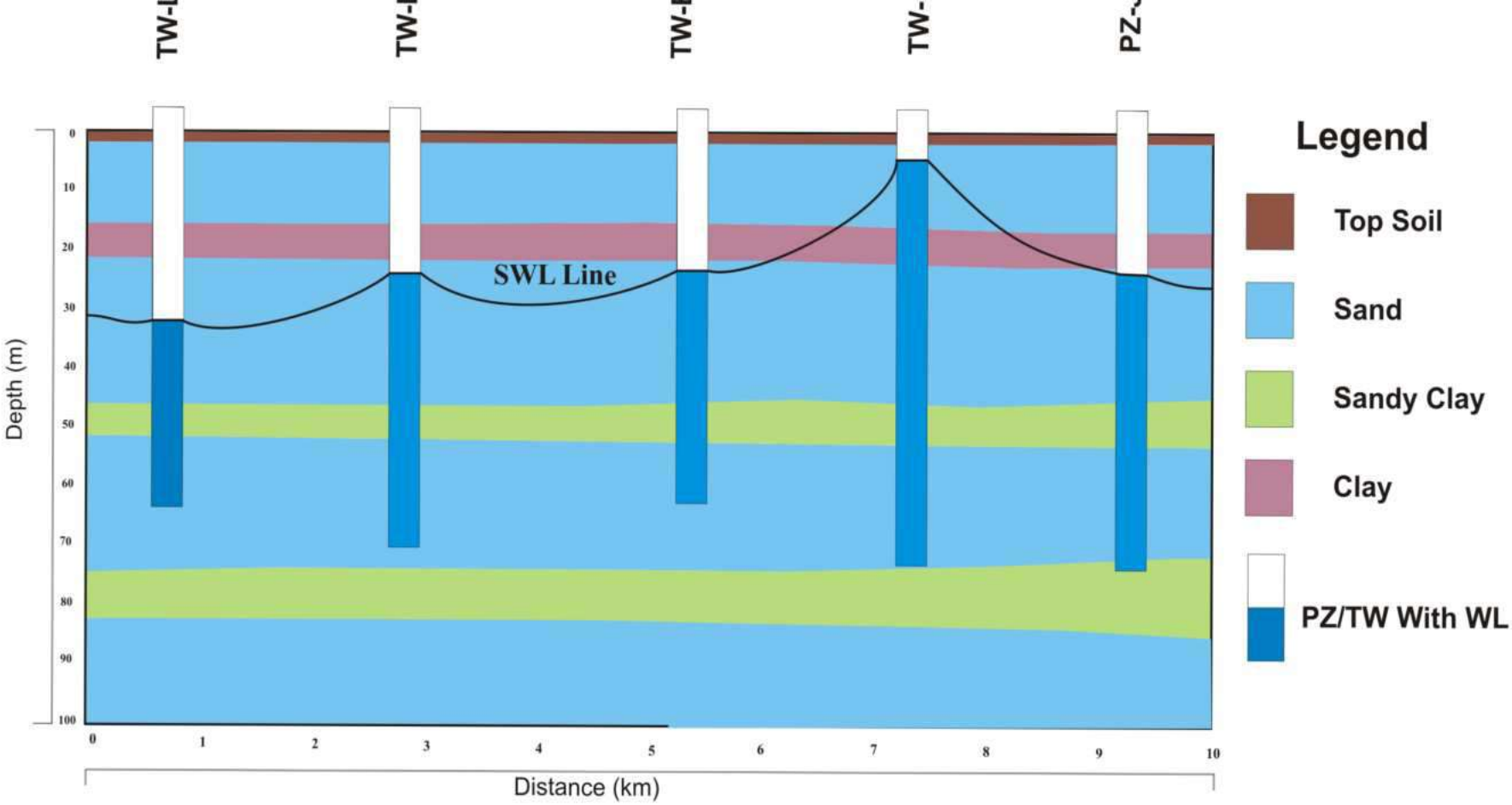




Aquifer Map

Aquifer Map of Landoura, Rajpura, Bhambholi, Kanheri Khurd, Janak Ka Majra of Saraswati Nagar block of district Yamunanagar





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	Rajpura	Rajpura road	30.20315	77.22827	2023-05-25	033466-002	Tube Well		Private		0.2500	90.00	0.50	26.76	2024-02-20
	Rajpura	Rajpura road	30.20315	77.22827	2023-05-25	033466-002	Tube Well		Private		0.2500	90.00	0.50	26.90	2024-01-22
	Rajpura	Rajpura road	30.20315	77.22827	2023-05-25	033466-002	Tube Well		Private		0.2500	90.00	0.50	27.10	2023-12-25
	Rajpura	Rajpura road	30.20315	77.22827	2023-05-25	033466-002	Tube Well		Private		0.2500	90.00	0.50	27.30	2023-11-29
	Rajpura	Rajpura	30.20315	77.22827	2023-05-25	033466-002	Tube		Private		0.2500	90.00	0.50	28.02	2023-1

		road					Well								0-30
	Rajpura	Rajpura road	30.20315	77.22827	2023-05-25	033466-002	Tube Well		Private		0.2500	90.00	0.50	28.06	2023-09-30
	Rajpura	Rajpura road	30.20315	77.22827	2023-05-25	033466-002	Tube Well		Private		0.2500	90.00	0.50	27.62	2023-08-31
	Rajpura	Rajpura road	30.20315	77.22827	2023-05-25	033466-002	Tube Well		Private		0.2500	90.00	0.50	27.95	2023-07-30
	Rajpura	Rajpura road	30.20315	77.22827	2023-05-25	033466-002	Tube Well		Private		0.2500	90.00	0.50	29.31	2023-06-30
	Rajpura	Rajpura road	30.20315	77.22827	2023-05-25	033466-002	Tube Well		Private		0.2500	90.00	0.50	28.65	2023-05-25
2	Rajpura	Link Road rajpura	30.20319	77.22835	2024-01-20	163755-002	Bore Well		Private		0.1500	55.00	0.10	19.45	2024-02-16
	Rajpura	Link Road rajpura	30.20319	77.22835	2024-01-20	163755-002	Bore Well		Private		0.1500	55.00	0.10	19.58	2024-01-20
3	Rajpura	Link road rajpura	30.2032	77.22814	2024-01-20	753915-003	Bore Well		Private		0.2500	60.00	0.60	18.90	2024-02-16
	Rajpura	Link road rajpura	30.2032	77.22814	2024-01-20	753915-003	Bore Well		Private		0.2500	60.00	0.60	18.93	2024-01-20

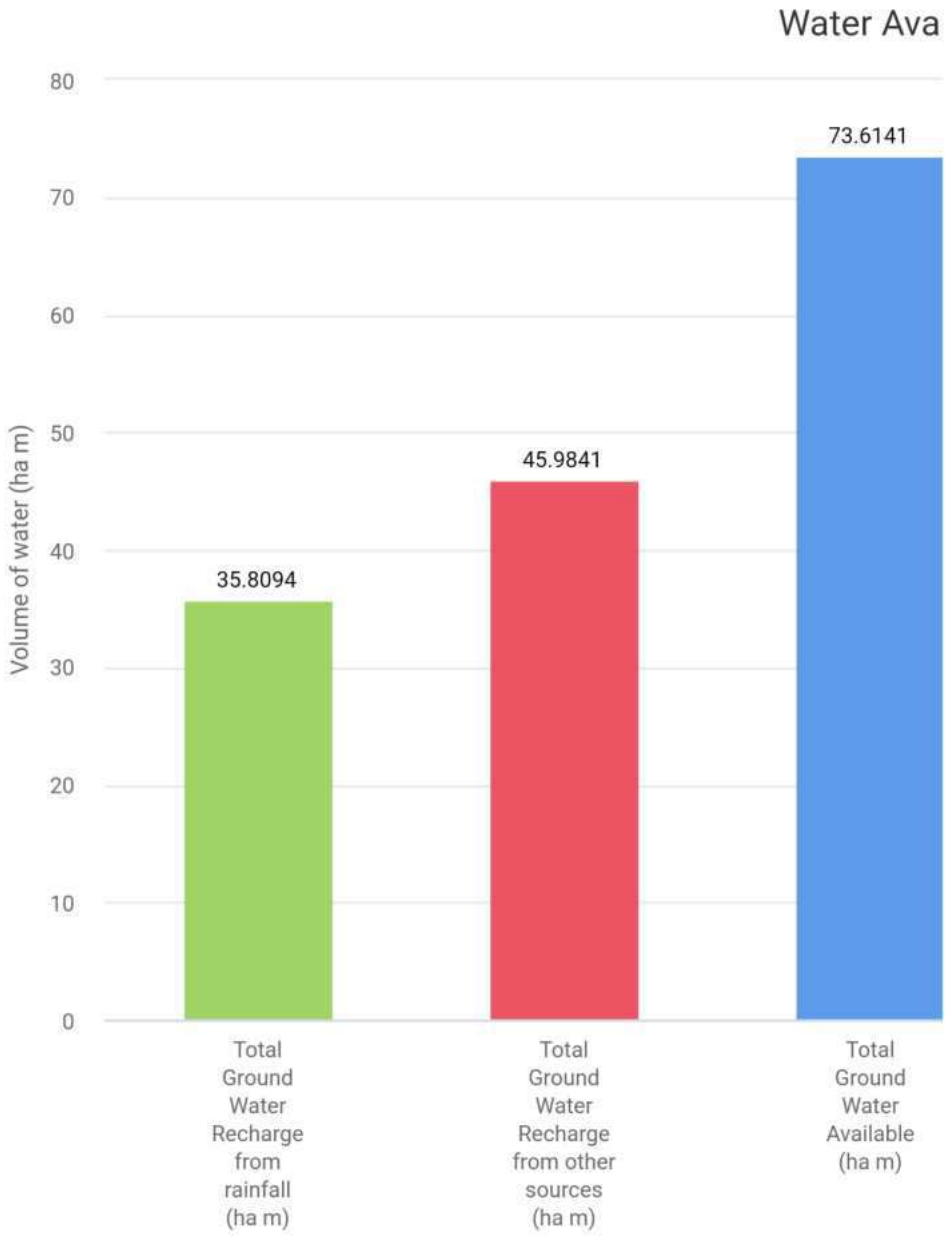
Ground Water Quality

S.No.	Village Name	Location	Latitude	Longitude	Year	Well Type	Source	Well ID
1	Rajpura	Rajpura	30.208904	77.222061	2022	Tube Well	I&WRD	ABY_YMR_S NAGAR_ Rajpura _001
2	Rajpura	Rajpura	30.211601	77.217278	2022	Tube Well	I&WRD	ABY_YMR_S NAGAR_ Rajpura _002
3	RAJPURA	Satyanaran	28.080729	76.249786	2022	TUBE WELL	I&WRD	HRY _M.GARH_ATELI_RAJPURA_001

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)	F ri (r
1	ABY_YMR_S NAGAR_ Rajpura _001	113	UNCONFINED	7.2	1000	610	242	62	21	85	1.4	0	312	32	42	0.
2	ABY_YMR_S NAGAR_ Rajpura _002	102	UNCONFINED	7.1	996	610	232	38	33.3	80	1.2	0	322	39	49	0.
3	HRY _M.GARH_ATELI_RAJPURA_001	219.509995	UNCONFINED	7.59	2470	1509	291	68	29.6	262	1.96	0	460	342	316	0.

Water Availability Report

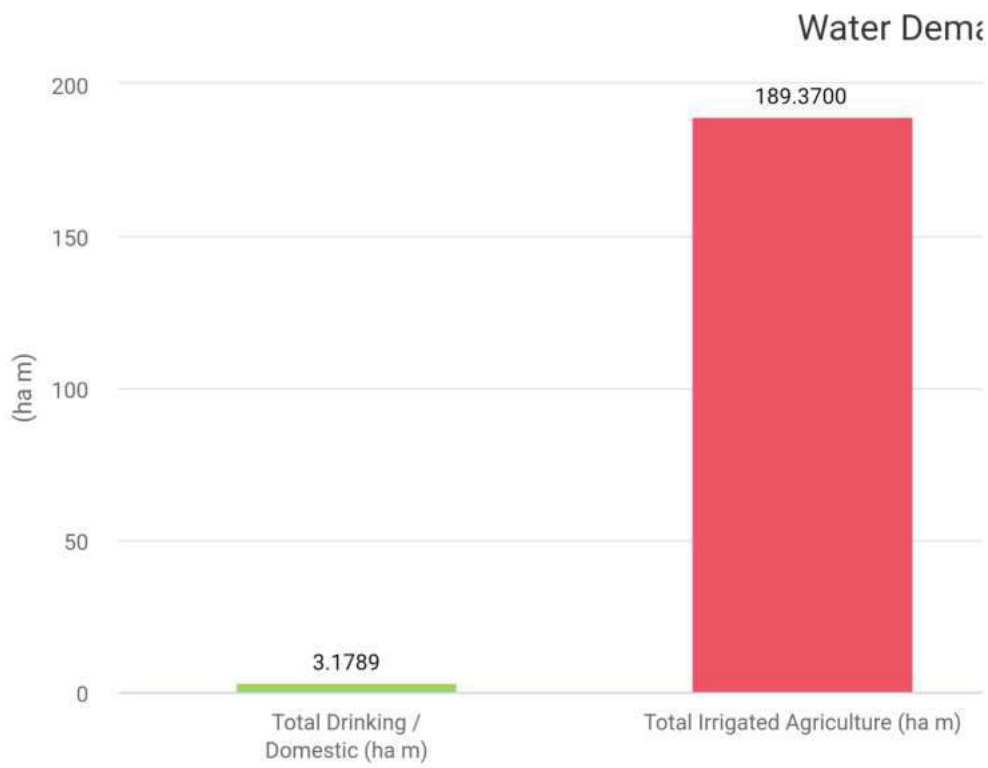
Water Availability		
1.	Total Available Water From Rainfall	
a.	Annual Rainfall (mm)	1785.7400
b.	Estimated Volume of Rainfall (ha m)	344.6478
c.	Evapotranspiration rate (mm)	449.7500
d.	Estimated Evapotranspiration losses (ha m)	86.8018
e.	Estimated Water Available From Rainfall (ha m)	257.8460
f.	Weighted Average Runoff Coefficient	0.3000
g.	Rainfall Runoff(ha m)	77.3538
2.	Ground Water	
a.	Recharge From Rainfall (ha m)	
(i)	Monsoon	28.7119
(ii)	Non-Monsoon	7.0975
	Total Ground Water Recharge from rainfall (ha m)	35.8094
b.	Ground Water Recharge from other sources (ha m)	
(i)	Monsoon	26.6189
(ii)	Non-Monsoon	19.3652
	Total Ground Water Recharge from other sources (ha m)	45.9841
c.	Losses Due to Natural Discharge (ha m)	8.1794
	Total Ground Water Available (ha m)	73.6141
d.	Ground Water Withdrawal (ha m)	148.4363
3.	Surface Water	
a.	Surface Water available in storages	
(i)	Number of Surface Water Bodies and Storage Capacity (ha m)	
Type of Structure	No. of Structures	Storage Capacity (ha m)
Ponds	2	1.85
	Total Storage Capacity of the surface water bodies (ha m)	1.8500
(ii)	Losses if Any (%)	10.0000
(iii)	Surface Water Available in Storages (ha m)	1.6650
b.	Transported Water from outside GP area (ha m)	
	Total Surface Water Available (ha m)	1.6650



4.	TOTAL WATER AVAILABLE	
	TOTAL WATER AVAILABLE (ha m)	75.2791

Water Demand Report

Water Demand		
A	Drinking /Domestic (ha m)	
i)	From Surface Water	0.1759
ii)	From Ground Water	3.0030
	Total Drinking /Domestic (ha m)	3.1789
B	Irrigated Agriculture (ha m)	
i)	From Surface Water	0.0000
ii)	From Ground Water	189.3700
	Total Irrigated Agriculture (ha m)	189.3700
C	Industrial Use (ha m)	
i)	From Surface Water	0.0000
ii)	From Ground Water	0.0000
	Total Industrial Use (ha m)	0.0000
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



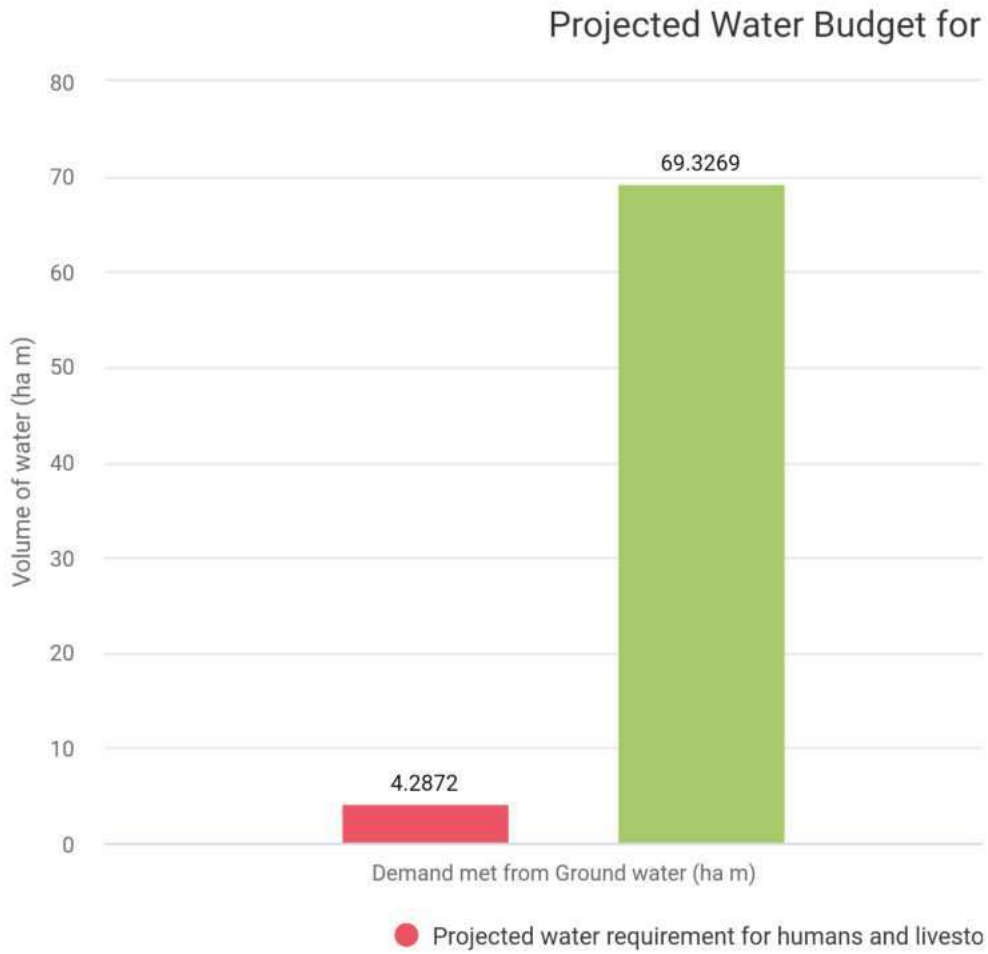
Water Balance Report

Water Balance		
A	Water Availability (ha m)	
i)	Total Ground Water Available	73.6141
ii)	Total Surface Water Available	1.6650
	Total Water Availability (ha m)	75.2791
B	Water Demand (ha m)	
i)	Total Surface Water Demand	0.1759
ii)	Total Ground Water Demand	192.3730
	Total Water Demand	192.5489
C	Balance [Surplus (+) / Deficit (-)]	
i)	Total Ground Water Balance	-118.7589

ii)	Total Surface Water Balance	1.4891
	Total Water Balance	-117.2698

Water Budget Report

A	Allocation for Drinking & Domestic Requirements	
I	Humans	
i)	Present Human Population	707.0000
ii)	Annual population growth rate (r)	1.2000
iii)	No. of years	27.0000
iv)	Projected human population (as in 2050)	976.0000
v)	Per capita requirement (L)	55.0000
vi)	Projected water requirement for humans (as in 2050) (ha m)	1.9593
II	Livestock	
i)	Present livestock population	371.0000
ii)	Annual population growth rate (r)	1.0460
iii)	No. of years	27.0000
iv)	Projected livestock population (as in 2050)	491.0000
v)	Average per capita requirement (L)	129.8922
vi)	Projected water requirement for livestock (as in 2050) (ha m)	2.3279
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)	4.2872
i)	Proposed share to be met from Ground water (in %)	100.0000
ii)	Proposed share to be met from Surface water (in %)	
iii)	Demand met from Ground water (ha m)	4.2872
iv)	Demand met from Surface water (ha m)	
C	Water available for future irrigation	
i)	Ground Water	69.3269
ii)	Surface water	1.6650
iii)	Total water available for future irrigation	70.9919

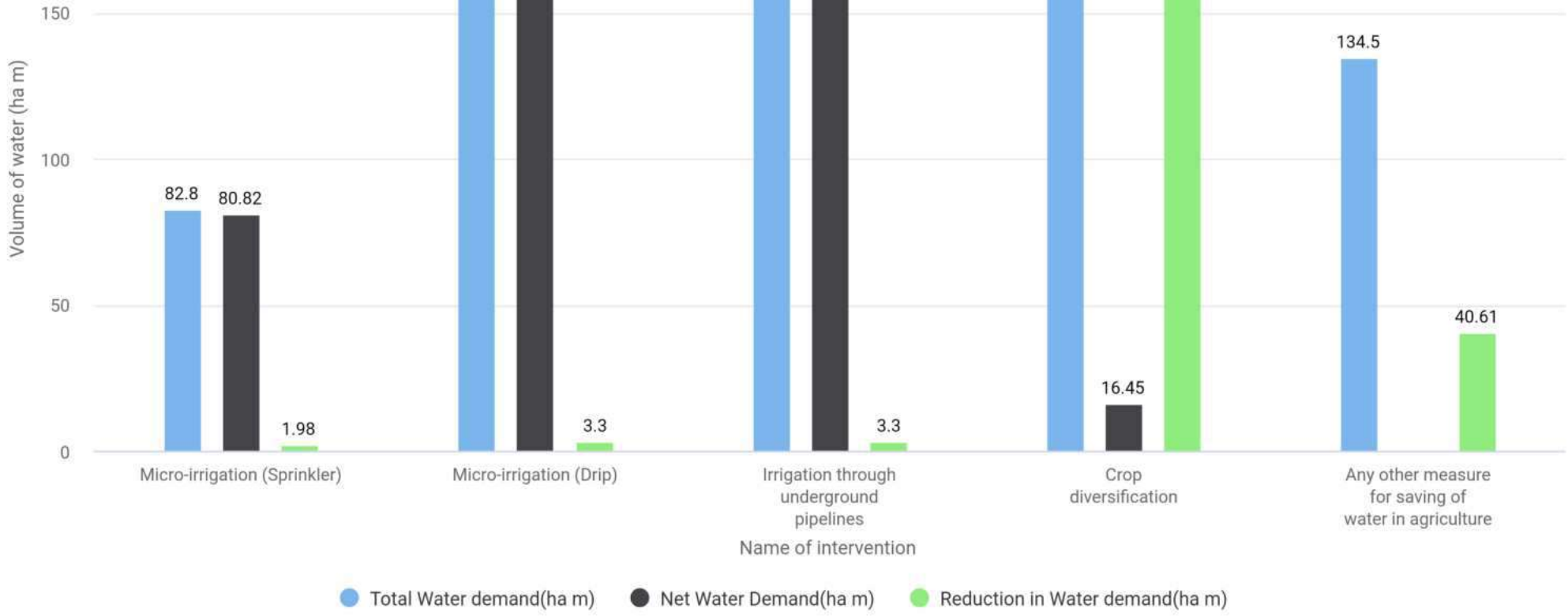


Demand Side

Total Area under Conventional Irrigation (ha) : 337.078

Demand Side						
Sr No	Name of Intervention	Proposed Area(ha)	Total Water demand(ham)	Net Water Demand(ham)	Reduction in Water demand(ham)	Approximate cost(in lakh)
1	Sprinkler	12.0000	82.8000	80.8200	1.9800	13.4400
2	Drip	15.0000	170.4900	167.1900	3.3000	22.9500
3	Pipelines	15.0000	170.4900	167.1900	3.3000	3.7500
4	Crop Diversification	38	189.3700	16.4500	172.9200	6.5740
5	Other Measures	166.0000	134.5000	--	40.6100	8.6860
	Total	246.0000	747.6500	431.6500	222.1100	55.4000

Funding Source						
Sr No	Name of Intervention	Area Proposed (ha)	Financial Year	Department Name	Scheme Name	Approximate Cost(in Lakh)
1	Other Measures	68	2024-25	Agriculture & Farmer Welfare Department	Rashtriye Krishi VikasYoajan (RKVY)	2.516
2	Sprinkler	12	2024-25	MICADA	PMKSY(Per Drop More Crop)	13.44
3	Drip	15	2024-25	MICADA	PMKSY(Per Drop More Crop)	22.95
4	UG Pipelines	15	2024-25	Agriculture & Farmer Welfare Department	Other	3.75
5	Other Measures	2	2024-25	Department of Horticulture	Other	0.32
6	Crop Diversification	10	2024-25	Department of Horticulture	Mera Pani Meri Virasat(MPMV)	1.73
7	Crop Diversification	28	2024-25	Agriculture & Farmer Welfare Department	Mera Pani Meri Virasat(MPMV)	4.844
8	Other Measures	50	2024-25	Agriculture & Farmer Welfare Department	Scheme for Management of Crop Residue	1.25
9	Other Measures	46	2024-25	Agriculture & Farmer Welfare Department	Mera Pani Meri Virasat(MPMV)	4.6
	Total	246				55.4000

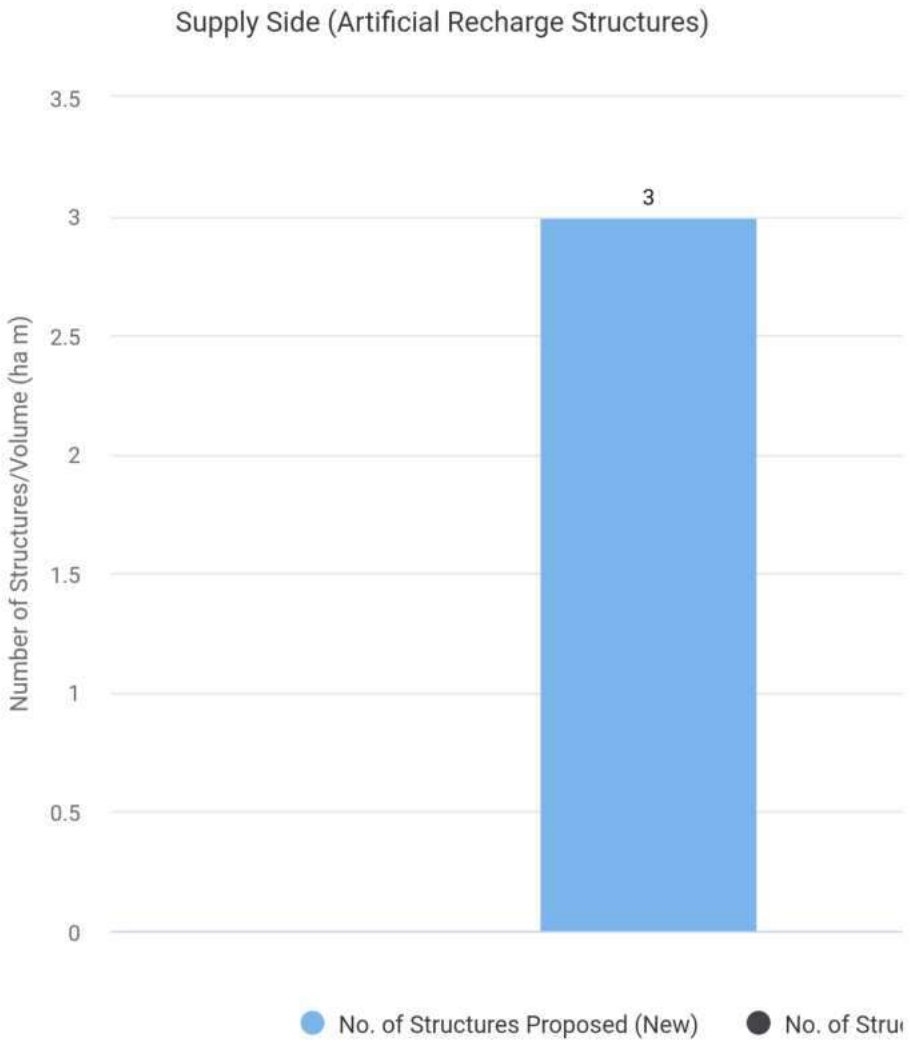


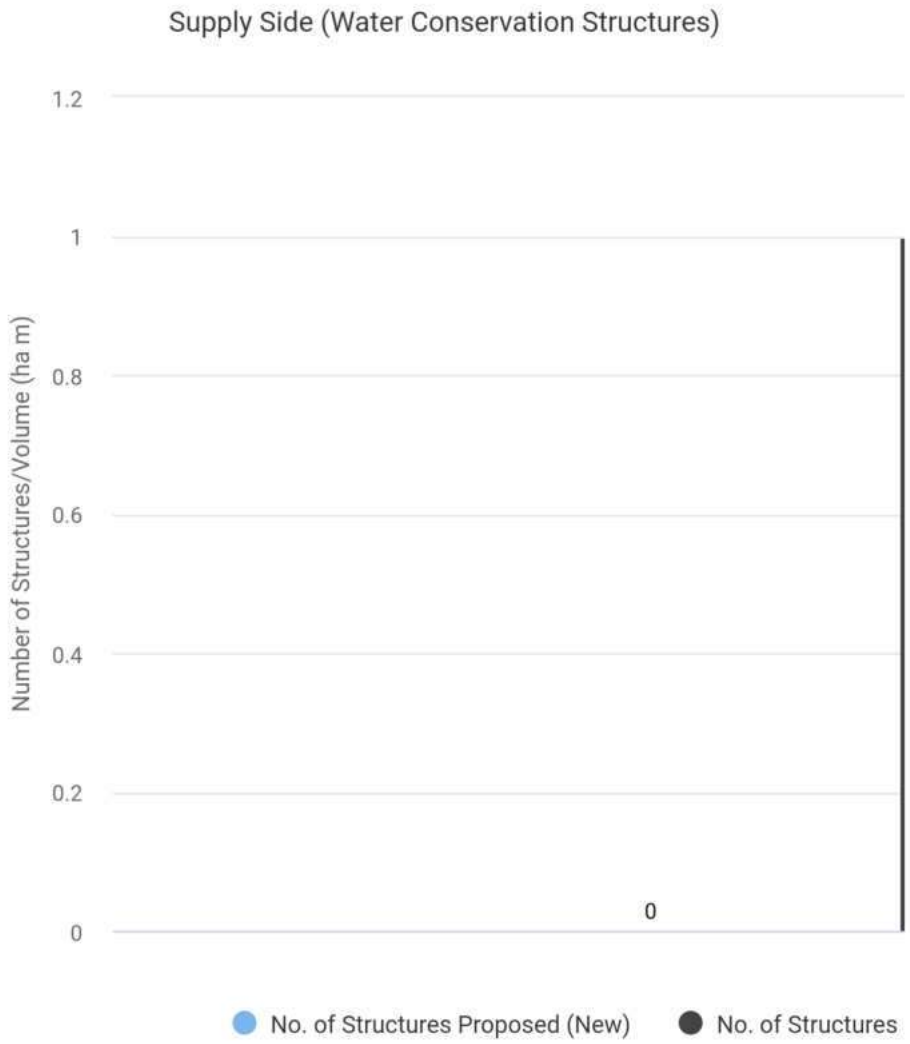
Supply Side

Supply Side (Artificial Recharge Structures)										
SR No	Name of Structure	Storage Capacity(ha m)	Annual GW Recharge(ha m)	Village Name	Latitude	Longitude	Financial Year	Department Name	Scheme Name	Approximate Cost (in Lakhs)
1	roof top rain water harvesting system(New)	0.0061	0.018300	Rajpura (369)	30.2118	77.2233	2024-25	Department of Education	CSR	4.5
2	Injection Wells/ Recharge Wells(New)	0.0023	0.006900	Rajpura (369)	30.2117	77.2238	2024-25	Irrigation & Water Resource Development	Departmental Scheme	2.4
3	Piezometer(New)	0	0.00	Rajpura (369)	30.20542	77.226031	2024-25	Irrigation & Water Resource Development	Other - Atal Bhujal Yojana	6
	Total	0.0084	0.0252							12.9000

Supply Side (Water Conservation Structures)										
SR	Name of Structure	Storage	Effective storage	Village	Latitude	Longitude	Financial	Department Name	Scheme Name	Approximate

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)	0.74	0.444	Rajpura (369)	30.2101	77.2222	2024-25	Rural Department and Panchayati Raj	Amrit Sarovar	10.27
	Total	0.7400	0.4440							10.2700





PGWM Committee

PGWM Committee (VWSC/WUA/CBO)				
Sr.no	Name	Designation	Gender	Mobile /Landline No.

1	INDERJEET SINGH	MEMBER	Male	9991862771
2	PARSAN KAUR	MEMBER	Female	8053676899
3	GURPREET SINGH	JE PHED	Male	9053779442
4	RAJINDER KAUR	MEMBER	Female	7027590095
5	KAMLESH	MEMBER	Female	9050700114
6	VIKRAMJEET SINGH	MEMBER	Male	9416301974
7	MANPREET KAUR	MEMBER	Female	9050588740
8	SARANJEET KAUR	MEMBER	Female	8168986354
9	KULWINDER KAUR	MEMBER	Female	8295791342
10	MOHINDER SINGH	MEMBER	Male	9671704703
11	MANJEET SINGH	MEMBER	Male	9467374753
12	ARSHDEEP KAUR	MEMBER	Female	8572836790
13	PARAMJEET KAUR	CHAIRPERSON	Female	8295802397
14	HARDEV SINGH	MEMBER	Male	8053865397
15	RAJ KUMAR	JE	Male	9729203036
16	VIKRAM SINGH	GRAM SACHIV	Male	9813367954

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	Yamunanagar_76	Saraswati	Raipura_33466	2024-02-28	Raipura_33466	Raipura	gurudwara	13	9	0	22

			Nagar_563				(369)	sahib				

Photograph

सामुहिक जन सहभागिता कार्यक्रम
अटल भूजल योजना
GPS Map Camera
Google
Rajpura, Haryana, India
666F+CF9, Rajpura, Haryana 133103, India
Lat 30.2112°
Long 77.223739°
28/02/24 11:29 AM GMT +05:30

DPMU DECLARATION

I, Surinder Kumar (Name), Executive Engineer, HKB Division No. 1 (Designation), authorized representative under District Program Management Unit (DPMU) declare that the WSP of Rajpura Gram Panchayat, Saraswati Nagar Block Yamuna Nagar District has been updated by including additional interventions. The Updation has been informed to the community/committee at GP level.

Seal and Signature of authorized DPMU Official:

Date

IEC, EXPERT
ATAL BHUJAL YOJANA (DPMU)
YAMUNA NAGAR

Executive Engineer
HKB Division No. I
Jagadhri

Tarveen Kumar
G.W.E DPMU

Minutes of Meeting

Village Name: Rajpura | Block: Saraswati Nagar | District: Yamunanagar

Meeting Place: Gram Panchayat Rajpura | Lat. No. 30.2112° | Long No. 77.223739°

Date: 28/02/24

Agenda of Meeting: Discuss with members about the ATAL BHUJAL YOJNA.

अटल-भूजल के अंर्गत आज दिनांक 28/02/24 को ग्राम पंचायत राजपुरा मे सरपंच श्री / श्रीमति विकास सैनी की अध्यक्षता मे ग्राम पंचायत जल एवं स्वच्छता समीति की बैठक का आयोजन किया गया मीटिंग मे सरपंच किसान और ग्रामीणो ने भाग लिया इस बैठक मे निम्नलिखित बिन्दुओ पर चर्चा की गई।

1) ग्राम पंचायत जोहड़ का पुनर्निर्माण किया जाए।
2) किसानो को खेती मे ड्रिप और फुवारा सिंचाई विधि लगाई जाए
3) ग्राम पंचायत मे स्कूल एवं धर्मशाला मे रोकेट पिट एवं RTRWHS बनाये जाए।
4) खेतो मे DSR विधि से धान की बुवाई की व्यवस्था की जाए
5) खेतो मे फसल अवशेष प्रबंधक की व्यवस्था की जाए।

उपरोक्त कार्यो को जल सुरक्षा योजना मे पारित किया गया और सभी कार्य करवाये जाये। इन कार्यो के लिए ग्राम पंचायत जल एवं स्वच्छता समिति की बैठक में सभी सदस्यों की सहमती से प्रस्ताव पारित किया।

ANNEXURE III

RESOLUTION

Date: 28/02/24

It is hereby resolved that the Water Budget/ Water Security Plan (WSP) of Gram Panchayat.....Rajpura Block/Taluk/Mandal Sarswati Nagar District-Yamunanagar, State- Harayana 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 28 / 02 / 2024

Sr. NO.	DESIGNATION	NAME	SIGNATURES
1	Gram Panchayat Adhyaksha (Sarpanch)/President of VWSC/ Presiding officer of the meeting	Paramjeet Kaur	Paramjeet Kaur सरपंच ग्राम पंचायत रजपुरा ब्लॉक सरस्वती नगर (यमुनानगर)
2	Gram Panchayat Secretary	Sunder Singh	Sunder

ATTENDANCE SHEET

Gram Panchayat:- Rajpura Meeting :- Gurudwara BLOCK : Saraswati nagar DISTRICT:-Yamuna Nagar

Sr. No	Name	Gender M/F	Category OBC/SC /ST	Occupation	Are you a member of any committee (Yes/No)	If yes name of the committee	Phone No.	Signature
1	Paramjeet Kaur	F	General	H.W	Yes	V.W.S.C	8295802397	Parmjeet
2	Rajinder Kaur	F	BC	H.W	Yes	V.W.S.C	7027590095	Rajinder Kaur
3	manpreet Kaur	F	BC	H.W	Yes	V.W.S.C	9050595740	Manpreet Kaur
4	Indersjeet singh	M	BC	Farmer	Yes	V.W.S.C	9918862771	Indersjeet singh
5	Kuldesh	F	SC	H.W	Yes	V.W.S.C	9050700114	Kuldesh
6	gurpreet Kaur	F	BC	H.W	Yes	V.W.S.C	8168986354	Sarabjeet Kaur
7	parsan Kaur	F	BC	H.W	Yes	V.W.S.C	8053976899	person
8	Kulwinder Kaur	F	BC	H.W	Yes	V.W.S.C	9295791342	Kulwinder Kaur
9	mohinder singh	M	BC	Farmer	Yes	V.W.S.C	9671704703	Mohinder Singh
10	vikramjeet singh	M	BC	Farmer	Yes	V.W.S.C	9416301974	Vikramjeet
11	manjit singh	M	General	Farmer	Yes	V.W.S.C	9467374253	Manjit Singh
12	Harder singh	M	General	Farmer	Yes	V.W.S.C	8816301974	~~Harder~~
13	Arashdeep Kaur	F	BC	H.W	Yes	V.W.S.C	8572836740	Arashdeep Kaur
14	mohanlal	M	SC	Farmer	No	—	9896510071	Mohanlal
15	Gurname	M	SC	Farmer	No	—	9671007221	Gurname
16	Ram Sharp	M	BC	Farmer	No	—	—	Ramsharp
17	mohinder	M	BC	Farmer	NO	—	9671704703	Mohinder

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Gram Panchayat:-_____ Meeting :-_____ BLOCK : Saraswati nagar DISTRICT: Yamuna Nagar

Sr. No	Name	Gender M/F	Category OBC/SC /ST	Occupation	Are you a member of any committee (Yes/No)	If yes name of the committee	Phone No.	Signature
18	Surjeet singh	M	BC	Farmer	No	—	—	Surjeet
19	Kuntal chand	M	BC	Farmer	No	—	9411864756	Kuntal
20	malkeet	M	General	Farmer	No	—	9030151051	malkeet
21	Rajinder Kaur	F	General	H.W	No	—	7027390095	Rajinder
22	Inderjeet Kaur	F	General	H.W	No	—	9050598740	Inderjeet
23	Sarvjeet Kaur	F	General	H.W	No	—	9418862771	Sarvjeet
24	Kulwinder Kaur	F	General	H.W	No	—	8295791342	Kulwinder
25	Kamaljeet Kaur	F	General	H.W	No	—	9416466656	Kamjeet