

# ATAL BHUJAL YOJANA (AtalJal)

**State : HARYANA**

**Department : IRRIGATION & WATER  
RESOURCE DEPARTMENT**

**BLOCK : BAPOLI**

**DISTRICT : PANIPAT**

**YEAR : 2024-2025**

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*Towards partial fulfilment of requirements for Disbursement of  
Incentive under DLI -1*

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HYDROGEOLOGICAL REPORT  
(YEAR: 2024-25)

|                 |   |         |
|-----------------|---|---------|
| STATE           | : | HARYANA |
| DISTRICT        | : | PANIPAT |
| BLOCK/TALUK     | : | BAPOLI  |
| BLOCK/TALUK HQs | : | BAPOLI  |

| A  | GENERAL INFORMATION    |   |                                 |             |        |
|----|------------------------|---|---------------------------------|-------------|--------|
| 1. | Geographical area (Ha) | : | 12945.3                         |             |        |
| 2. | No. of Gram Panchayats | : | 24                              |             |        |
| 3. | No. of towns           | : | 2                               |             |        |
| 4. | No. of villages        | : | 28                              |             |        |
| 5. | Population (2011)      | : | Male                            | Female      | Total  |
|    |                        |   | 37019                           | 31051       | 68070  |
| 6  | Rainfall (mm) (2023)   | : | Monsoon                         | Non-monsoon | Annual |
|    |                        |   | 360                             | 252         | 611    |
| 7. | River basin            | : | Yamuna river basin              |             |        |
| 8. | Major soil types       | : | Loamy to Sandy loamy in texture |             |        |

| B  | LAND USE (2023-24)      |   |       |  |
|----|-------------------------|---|-------|--|
| 1. | Forest area (Ha)        | : | 900   |  |
| 2. | Cultivable area (Ha)    | : | 18555 |  |
| 3. | Net sown area (Ha)      | : | 18555 |  |
| 4. | Gross cropped area (Ha) | : | 28856 |  |

| C  | CROPPING PATTERN (As in 2023-24) |   |        |       |        |            |
|----|----------------------------------|---|--------|-------|--------|------------|
| 1. | Major crops grown                | : | Kharif | Rabi  | Summer | Perennial  |
|    |                                  |   | Paddy  | Wheat | NA     | Sugar cane |

| D  | IRRIGATION FACILITIES (As in 2023-24)    |   |       |       |             |        |        |
|----|------------------------------------------|---|-------|-------|-------------|--------|--------|
| 1. | Net irrigated area (Ha)                  | : | 18555 |       |             |        |        |
| 2. | Gross irrigated area (Ha)                | : | 37110 |       |             |        |        |
| 3. | Area under irrigation (Ha) (Source-wise) | : | DW    | BW/TW | Tanks/Ponds | Canals | Others |
|    |                                          |   | 0     | 18555 | 0           | 0      | 0      |

| E  | GEOLOGY & HYDROGEOLOGY             |   |                                 |
|----|------------------------------------|---|---------------------------------|
| 1. | Predominant rocktype               | : | Sand with Kankar, Silt and Clay |
| 2. | Major geological formations        | : | Older & Newer Alluvium          |
| 3. | Important water-bearing formations | : | Sand and Gravel                 |
| 4. | Status of coverage under NAQUIM    | : | Covered                         |

| F | GROUND WATER CONDITIONS                            |   |                            |                                            |          |       |                            |          |           |       |          |
|---|----------------------------------------------------|---|----------------------------|--------------------------------------------|----------|-------|----------------------------|----------|-----------|-------|----------|
| 1 | No. of wells used for Water Level (WL) monitoring. | : | Open wells                 |                                            |          |       | BW/TW/ PZ                  |          |           |       |          |
|   |                                                    |   | CGWB                       | SGWB                                       | Atal Jal | Total | CGWB                       | SGWB     | Atal Jal  | Total |          |
|   |                                                    |   | 0                          | 0                                          | 0        | 0     | 3                          | 7        | 37        | 47    |          |
| 2 | Monitoring mechanism (Nos.)                        | : | Manual                     |                                            |          | DWLR  |                            |          | Telemetry |       |          |
|   |                                                    |   | CGWB                       | SGWB                                       | Atal Jal | CGWB  | SGWB                       | Atal Jal | CGWB      | SGWB  | Atal Jal |
|   |                                                    |   | 3                          | 7                                          | 19       | 0     | 0                          | 18       | 0         | 0     | 18       |
| 3 | Monitoring frequency                               | : | Agency                     | No. of times monitored/year                |          |       |                            |          |           |       |          |
|   |                                                    |   | CGWB                       | 2 times/year Pre and Post Monsoon          |          |       |                            |          |           |       |          |
|   |                                                    |   | SGWB                       | 2 times/year Pre and Post Monsoon          |          |       |                            |          |           |       |          |
|   |                                                    |   | Atal Jal                   | 2 times/year Pre and Post Monsoon          |          |       |                            |          |           |       |          |
| 4 | Period of water level data availability.           | : | Agency                     | Period of WL data availability (From - To) |          |       |                            |          |           |       |          |
|   |                                                    |   |                            | From (year)                                |          |       | To (year)                  |          |           |       |          |
|   |                                                    |   | CGWB                       | 2015                                       |          |       | 2024                       |          |           |       |          |
|   |                                                    |   | SGWB                       | 2015                                       |          |       | 2024                       |          |           |       |          |
|   |                                                    |   | Atal Jal                   | 2023                                       |          |       | 2024                       |          |           |       |          |
| 5 | Water level range (m.bgl)                          | : | Minimum/Village            |                                            |          |       | Maximum/Village            |          |           |       |          |
|   | Pre-monsoon (May – June 2024)                      |   | 8.5/Khojkipur Khurd_264989 |                                            |          |       | 44.83/Pasina Kalan_31893   |          |           |       |          |
|   | Post-monsoon (Oct/Nov 2024)                        |   | 10.03/Goela Khurd_31878    |                                            |          |       | 47.66/Pasina Kalan_31893   |          |           |       |          |
| 6 | Seasonal WL fluctuation range (m)                  | : | Minimum/ Village           |                                            |          |       | Maximum/ Village           |          |           |       |          |
|   |                                                    |   | -7.59/Garhi Bhalor_31876   |                                            |          |       | 9.5/Khojkipur Khurd_264989 |          |           |       |          |

| G | GROUND WATER QUALITY                                 |               |                                                                                                   |          |       |           |      |          |       |
|---|------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------|----------|-------|-----------|------|----------|-------|
| 1 | No. of wells used for Water Quality (WQ) monitoring. | Open Wells    |                                                                                                   |          |       | BW/TW/ PZ |      |          |       |
|   |                                                      | CGWB          | SGWB                                                                                              | Atal Jal | Total | CGWB      | SGWB | Atal Jal | Total |
|   |                                                      | 0             | 0                                                                                                 | 0        | 0     | 1         | 8    | 24       | 33    |
| 2 | Monitoring frequency                                 | Agency        | No. of times monitored/year                                                                       |          |       |           |      |          |       |
|   |                                                      | CGWB          | 1 time/year                                                                                       |          |       |           |      |          |       |
|   |                                                      | SGWB          | 1 time/year                                                                                       |          |       |           |      |          |       |
|   |                                                      | Atal Jal      | 1 time/year                                                                                       |          |       |           |      |          |       |
| 3 | Period of water quality data availability            | Agency        | Period of WQ data availability (Years)                                                            |          |       |           |      |          |       |
|   |                                                      | CGWB          | 2015 to 2024                                                                                      |          |       |           |      |          |       |
|   |                                                      | SGWB          | 2020 to 2024                                                                                      |          |       |           |      |          |       |
|   |                                                      | Atal Jal      | 2023 to 2024                                                                                      |          |       |           |      |          |       |
| 4 | Parameters analysed                                  | Agency        | Parameters Analysed                                                                               |          |       |           |      |          |       |
|   |                                                      | CGWB          | pH,EC,TH,Ca,Mg,Na,K,CO <sub>3</sub> ,HCO <sub>3</sub> , SO <sub>4</sub> ,Cl,F,NO <sub>3</sub>     |          |       |           |      |          |       |
|   |                                                      | SGWB          | EC                                                                                                |          |       |           |      |          |       |
|   |                                                      | Atal Jal      | pH,EC,TDS,TH,Ca,Mg,Na,K,CO <sub>3</sub> ,HCO <sub>3</sub> , SO <sub>4</sub> ,Cl,F,NO <sub>3</sub> |          |       |           |      |          |       |
| 5 | Known ground water quality issues, if any            | No Such Issue |                                                                                                   |          |       |           |      |          |       |

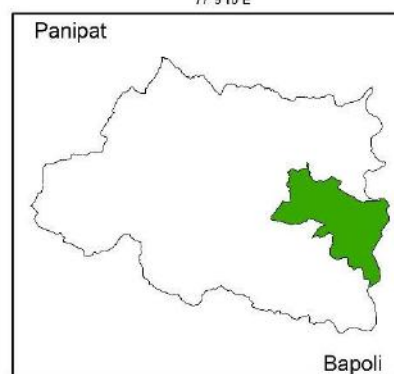
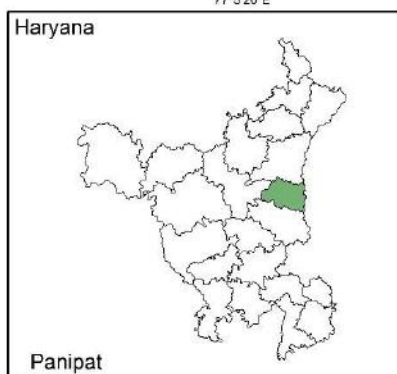
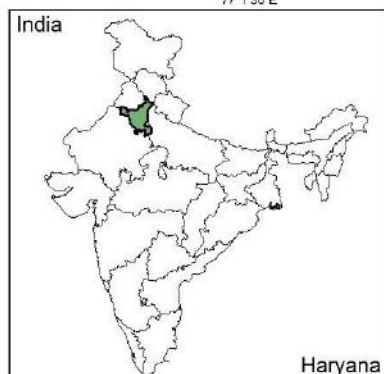
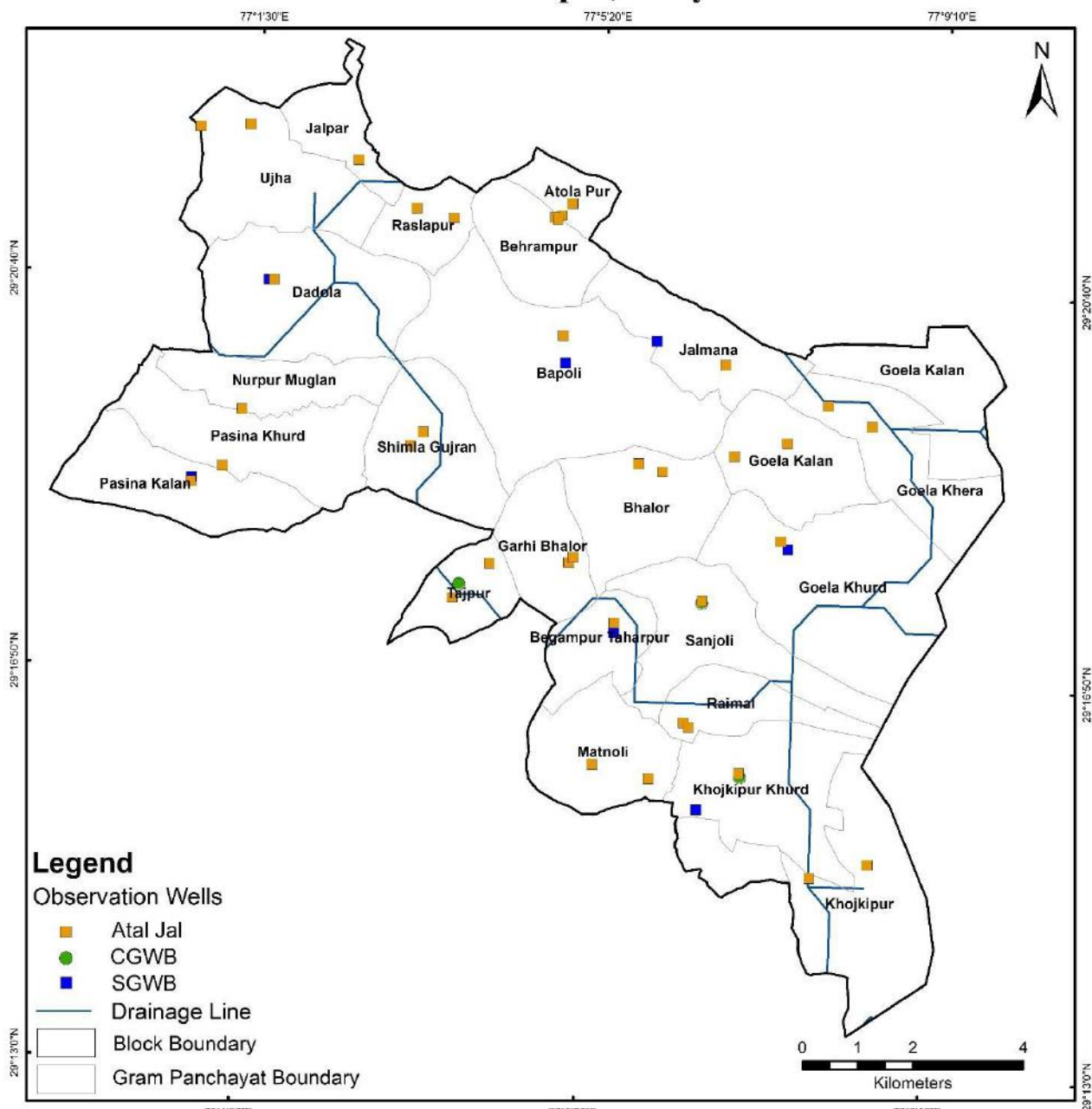
| H. GROUND WATER RESOURCES |                                                  |   |                |                |                |                |                |                |
|---------------------------|--------------------------------------------------|---|----------------|----------------|----------------|----------------|----------------|----------------|
| 1.                        | Latest assessment year                           | : | 2023           |                |                |                |                |                |
| 2.                        | Assessment Unit                                  | : | Block          |                |                |                |                |                |
| 3.                        | Annual extractable GW resource (ha.m)            | : | 4538.8         |                |                |                |                |                |
| 4.                        | Current annual GW extraction (ha.m)              | : | 7455.0         |                |                |                |                |                |
| 5.                        | Net GW availability for future use (ha.m)        | : | 0.0            |                |                |                |                |                |
| 6.                        | Stage of GW extraction (%)                       | : | 245.55 %       |                |                |                |                |                |
| 7.                        | Category of block/taluk/(2023)                   | : | Over Exploited |                |                |                |                |                |
| 8.                        | Category of block/taluk/ in previous assessments |   | 2023           | 2020           | 2017           | 2013           | 2011           | 2009           |
|                           |                                                  |   | Over Exploited | Over Exploited | Over Exploited | Over Exploited | Over Exploited | Over Exploited |

| I. WATER-RELATED SCHEMES |                                                                                 |      |                               |  |
|--------------------------|---------------------------------------------------------------------------------|------|-------------------------------|--|
| 1.                       | Schemes with a bearing on ground water, being implemented in the block / taluk. |      |                               |  |
|                          | Centrally Sponsored /Central Sector Schemes                                     | i)   | PMKSY                         |  |
|                          |                                                                                 | ii)  | JJM                           |  |
|                          |                                                                                 | iii) | MGNREGA                       |  |
|                          |                                                                                 | iv)  | RKVY                          |  |
|                          | State Schemes                                                                   | i)   | State Plan Scheme (Head 2402) |  |
|                          |                                                                                 | ii)  | MPMV                          |  |

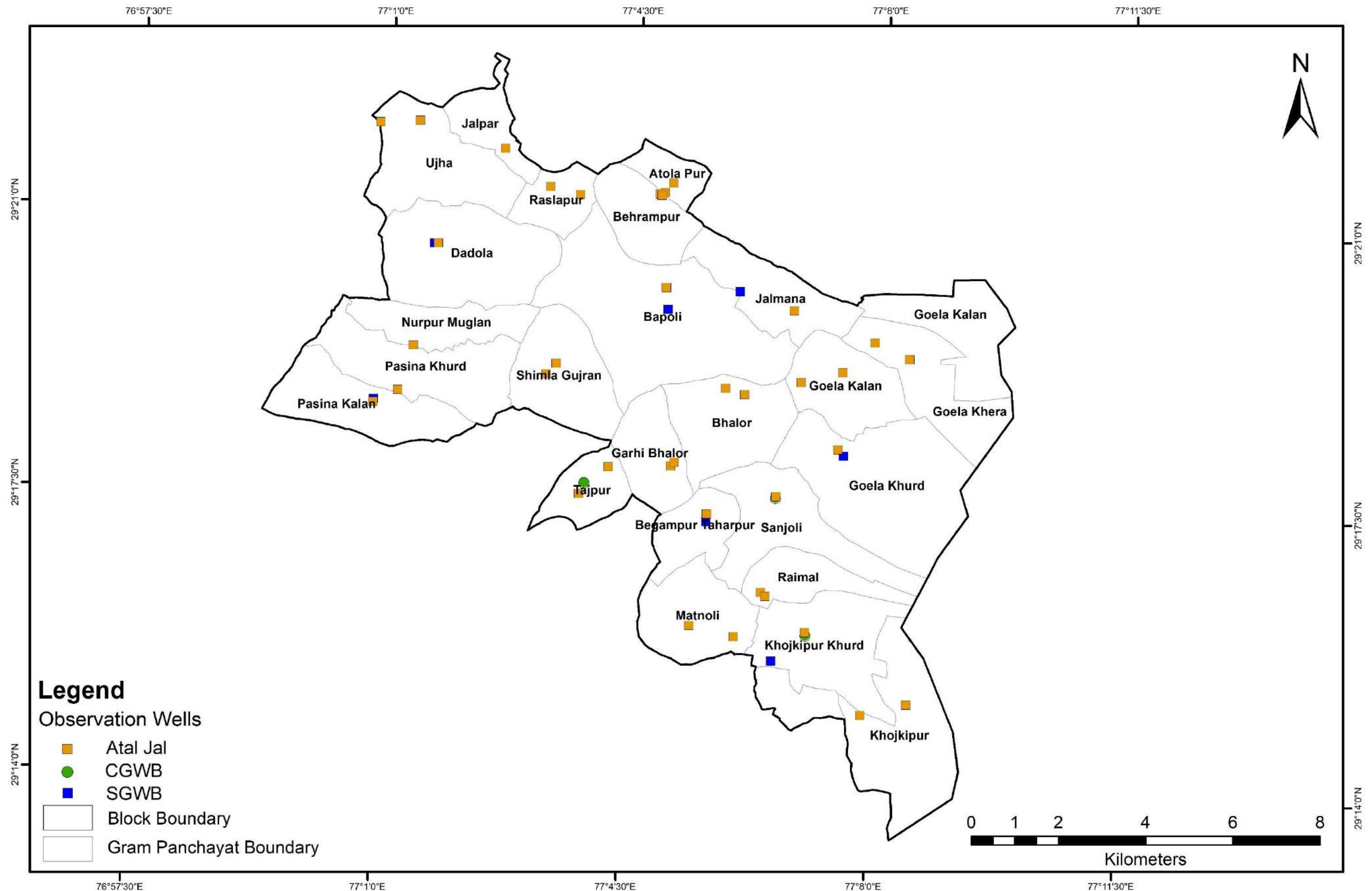
| J. GROUND WATER RELATED ISSUES |                                           |   |                                                                                                                   |
|--------------------------------|-------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------|
| 1.                             | Ground water related issues of the block/ |   |                                                                                                                   |
|                                | i) Issues related to GW availability      | : | Block under Over Exploited Category & Showing declining water level trend in last decades.                        |
|                                | ii) Issues related to GW quality          | : | Ground water is alkaline in nature and is fresh to moderately saline with fluoride contamination in deeper zones. |
|                                | iii) Other issues if any.                 | : | No                                                                                                                |

| K. ANNEXURES |                                            |
|--------------|--------------------------------------------|
| I.           | Basic data of observation wells – Attached |
| II.          | Historical water level data – Attached     |
| III.         | Historical water quality data – Attached   |

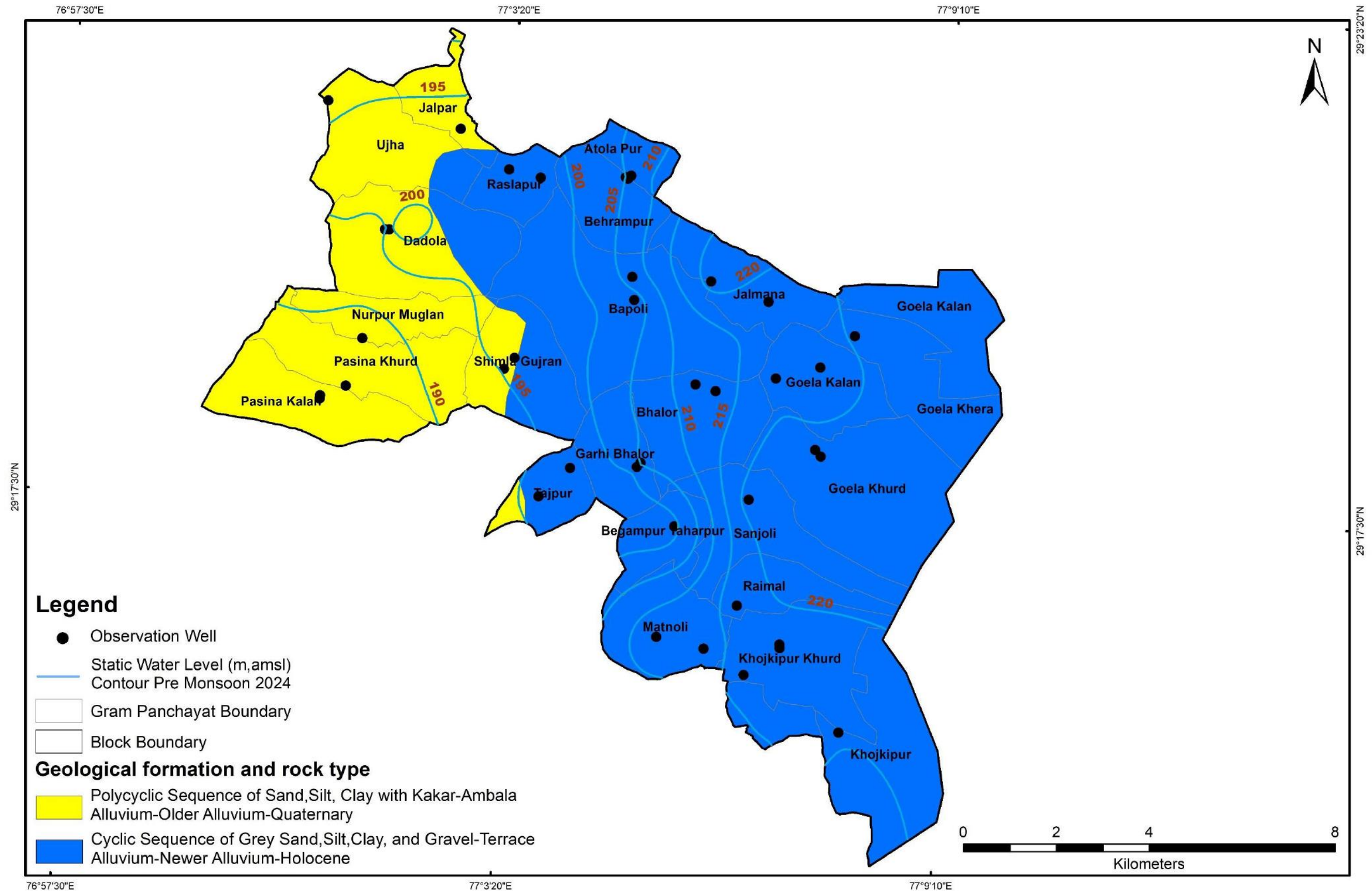
## Location Map of Block-Bapoli, District- Panipat, Haryana



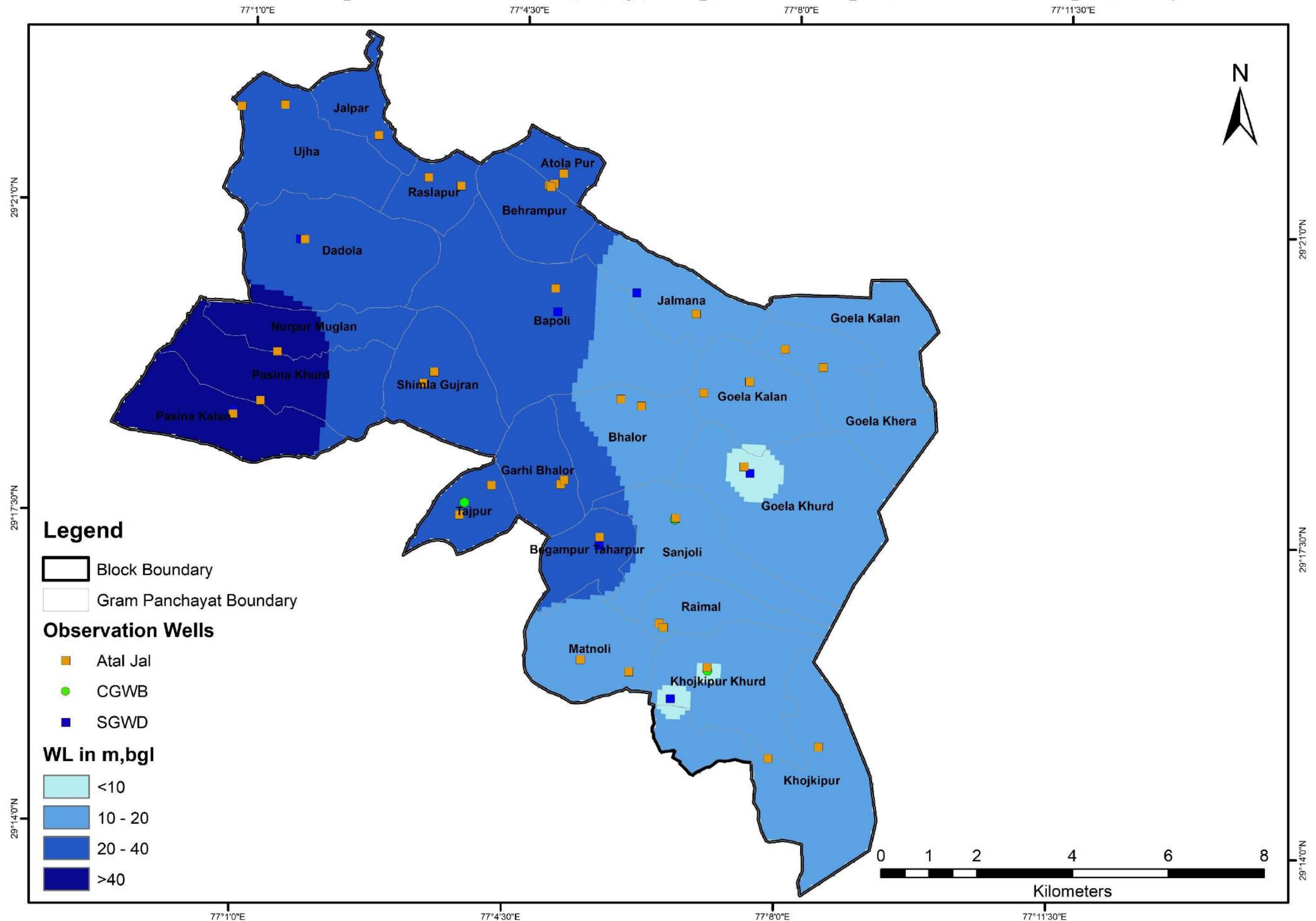
## Location of Observation Wells for Monitoring Water Levels and Water Quality, Block- Bapoli, District- Panipat, Haryana



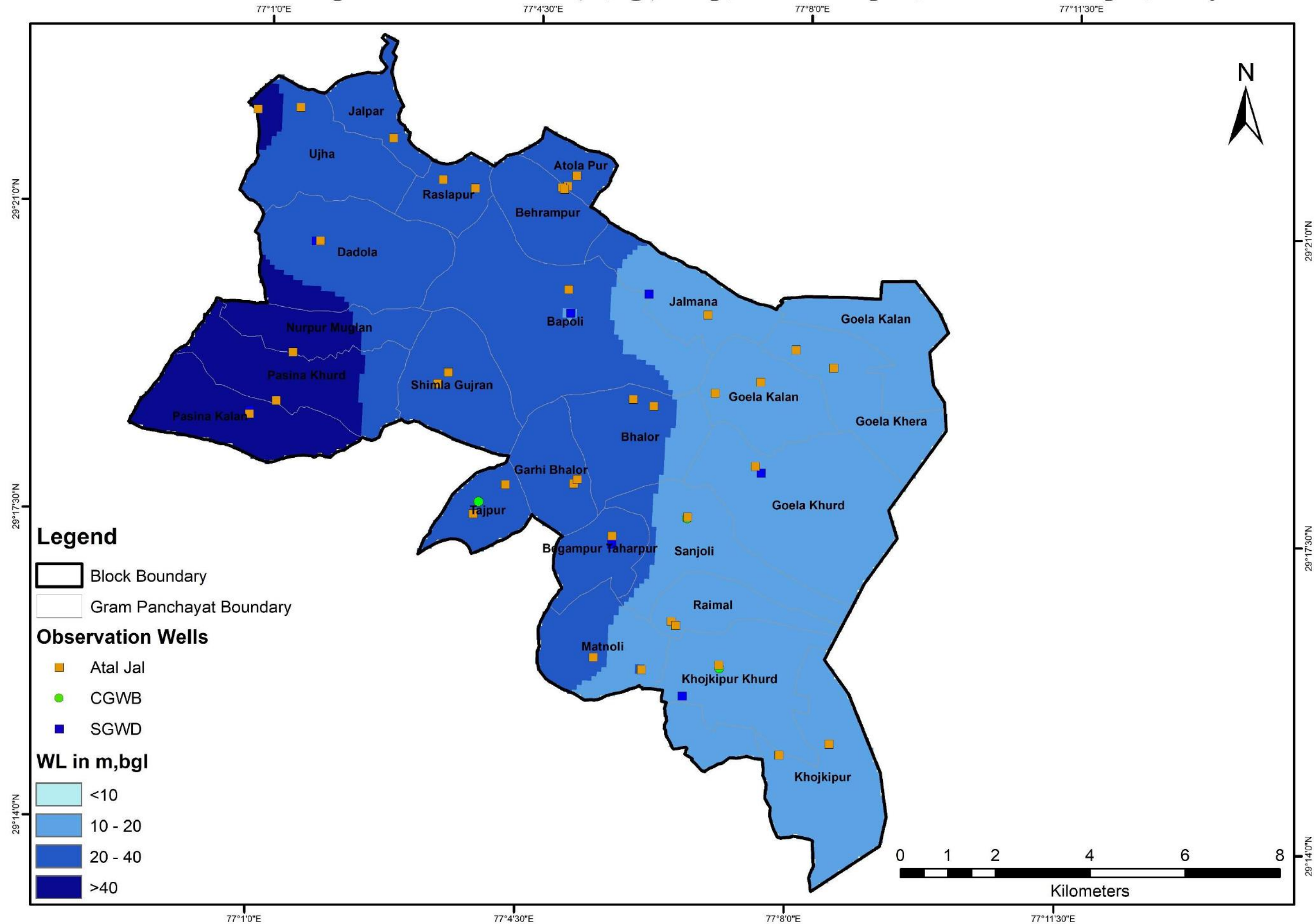
# Hydrogeological Map, Block- Bapoli, District- Panipat, Haryana



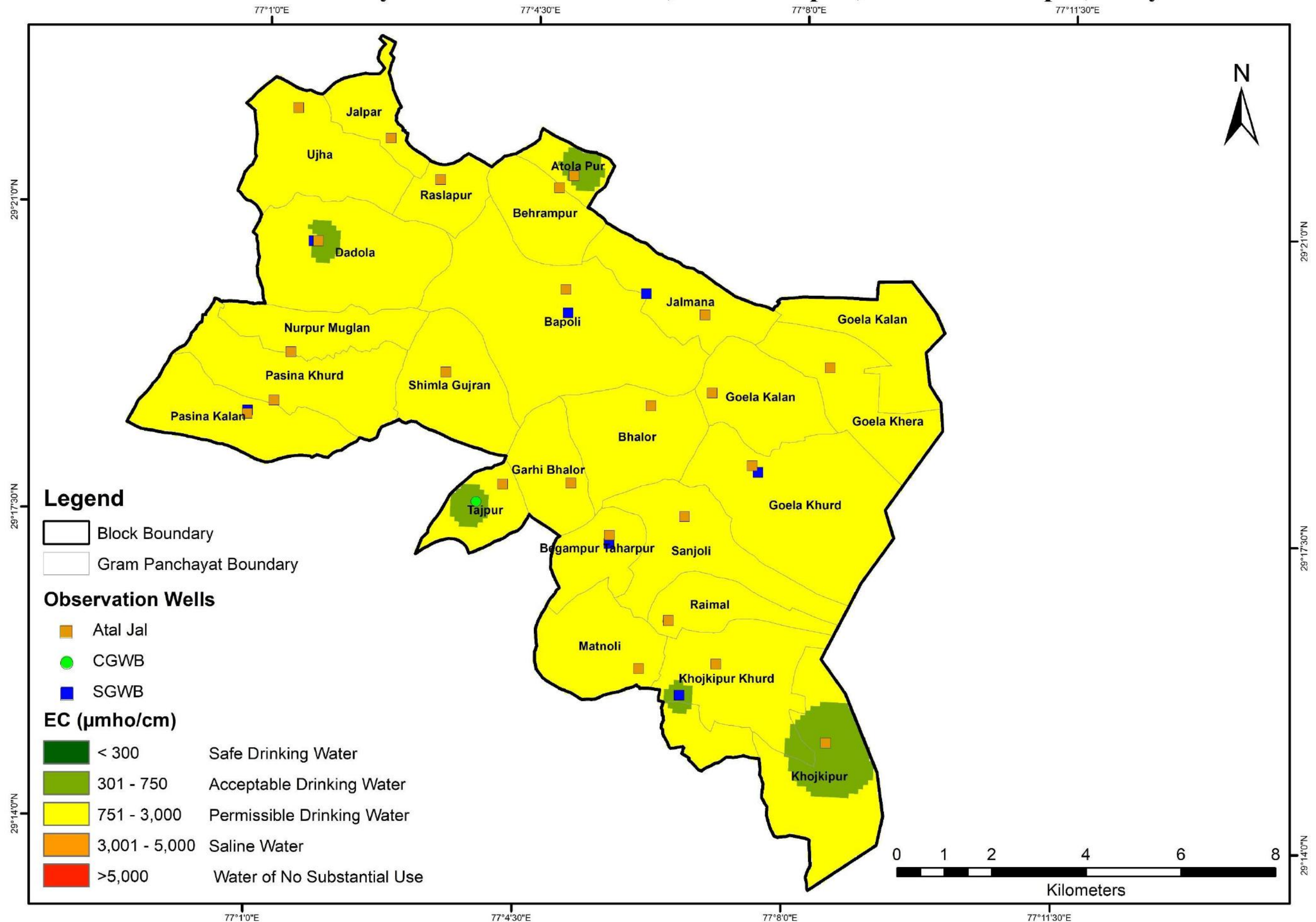
## Pre Monsoon 2024 Depth to Water Level (m,bgl) Map, Block - Bapoli, District - Panipat, Haryana



Post Monsoon 2024 Depth to Water Level (m,bgl) Map, Block - Bapoli, District - Panipat, Haryana



# Electrical Conductivity of Groundwater-2024, Block - Bapoli, District - Panipat, Haryana



ANNEXURE: 1  
BASIC DATA OF MONITORING WELLS

| State | Haryana                       |                         |                     | District                            | Panipat  |           |              |               | Block                                           | Bapoli                       |               |              |                               |                      |                  |
|-------|-------------------------------|-------------------------|---------------------|-------------------------------------|----------|-----------|--------------|---------------|-------------------------------------------------|------------------------------|---------------|--------------|-------------------------------|----------------------|------------------|
| S.No  | Well ID                       | Gram Panchayat          | Name of the village | Site Name                           | Latitude | Longitude | Type of Well | Reduced Level | Aquifer Type/Lithology                          | Height of Measuring (m, agl) | Depth (m,bgl) | Diameter (m) | Purpose of Monitoring (WL/WQ) | Monitoring Mechanism | Agency           |
| 1.    | GWL-06-071-00531-00031866-001 | Atola Pur_31866         | Atollapur           | Near Govt School                    | 29.3560  | 77.0815   | Tube Well    | 232           | Unconfined to Semi-Confined                     | 0.46                         | 152           | 0.30         | WL                            | Manual               | Atal Jal-Private |
| 2.    | PAN_BAP_ATO_1                 | Atola Pur_31866         | Atola Pur           | Phe Tw                              | 29.3580  | 77.0834   | Tube Well    | 234           | Unconfined to Semi-confined / Sand, Silt, Clay. | 0.46                         | 366           | 0.30         | WQ                            | Manual               | Atal Jal         |
| 3.    | HR_GW_761                     | Bapoli_31868            | Bapoli              | Govt. Sr. Sec. School, Bapoli       | 29.3364  | 77.0825   | Piezometer   | 232           | Unconfined to Semi-Confined                     | 0.50                         | 96            | 0.10         | Both                          | Telemetric           | Atal Jal         |
| 4.    | PAN_BAP_BEG_1                 | Begampur Taharpur_31869 | Begampur Taharpur   | Phe Tw                              | 29.2899  | 77.0937   | Tube Well    | 229           | Unconfined to Semi-confined / Sand, Silt, Clay. | 0.00                         | 259           | 0.30         | WQ                            | Manual               | Atal Jal         |
| 5.    | HR_GW_763                     | Behrampur_31867         | Behrampur           | Govt. Primary School, Behrampur     | 29.3557  | 77.0803   | Piezometer   | 231           | Unconfined to Semi-Confined                     | 0.50                         | 94            | 0.10         | Both                          | Telemetric           | Atal Jal         |
| 6.    | GWL-06-071-00531-00031867-001 | Behrampur_31867         | Bherampur           | Gsss                                | 29.3554  | 77.0808   | Tube Well    | 231           | Unconfined to Semi-Confined                     | 0.00                         | 396           | 0.30         | WL                            | Manual               | Atal Jal-Private |
| 7.    | HR_GW_764                     | Bhalor_31870            | Bhallor             | Govt. Middle School, Bhallor        | 29.3148  | 77.1017   | Piezometer   | 228           | Unconfined to Semi-Confined                     | 0.50                         | 85            | 0.10         | Both                          | Telemetric           | Atal Jal         |
| 8.    | GWL-06-071-00531-00031870-001 | Bhalor_31870            | Bhalor              | Bhalor                              | 29.3160  | 77.0973   | Tube Well    | 228           | Unconfined to Semi-Confined                     | 0.00                         | 183           | 0.30         | WL                            | Manual               | Atal Jal-Private |
| 9.    | HR_GW_766                     | Dadola_31873            | Dadola              | Govt. Sr. Sec. School, Dadola       | 29.3441  | 77.0284   | Piezometer   | 241           | Unconfined to Semi-Confined                     | 0.50                         | 90            | 0.10         | Both                          | Telemetric           | Atal Jal         |
| 10.   | HR_GW_765                     | Garhi Bhalor_31876      | Garhi Bhalor        | Govt. Primary School, Garhi Bhallor | 29.2996  | 77.0849   | Piezometer   | 226           | Unconfined to Semi-Confined                     | 0.50                         | 81            | 0.10         | Both                          | Telemetric           | Atal Jal         |
| 11.   | GWL-06-071-00531-00031876-001 | Garhi Bhalor_31876      | Garhi Bhlor         | Garhi Bhlor                         | 29.3004  | 77.0857   | Tube Well    | 230           | Unconfined to Semi-Confined                     | 0.00                         | 76            | 0.30         | WL                            | Manual               | Atal Jal-Private |
| 12.   | HR_GW_767                     | Goela Kalan_31877       | Goela Khera         | Phc, Goela Khera                    | 29.3177  | 77.1150   | Piezometer   | 230           | Unconfined to Semi-Confined                     | 0.50                         | 92            | 0.10         | Both                          | Telemetric           | Atal Jal         |
| 13.   | GWL-06-071-00531-00031877-001 | Goela Kalan_31877       | Goelakalan          | Goelakalan                          | 29.3201  | 77.1247   | Tube Well    | 228           | Unconfined to Semi-Confined                     | 0.00                         | 183           | 0.30         | WL                            | Manual               | Atal Jal-Private |
| 14.   | GWL-06-071-00531-00245446-001 | Goela Khera_245446      | Goelakhera          | Gsss                                | 29.3264  | 77.1322   | Tube Well    | 232           | Unconfined to Semi-Confined                     | 0.00                         | 366           | 0.30         | WL                            | Manual               | Atal Jal-Private |
| 15.   | PAN_BAP_GOE_KHE_1             | Goela Khera_245446      | Goela Khera         | Phe Tw                              | 29.3232  | 77.1404   | Tube Well    | 218           | Unconfined to Semi-confined / Sand, Silt, Clay. | 0.25                         | 244           | 0.20         | WQ                            | Manual               | Atal Jal         |
| 16.   | HR_GW_768                     | Goela Khurd_31878       | Goela Khurd         | Govt. Sr. Sec. School, Goela Khurd  | 29.3040  | 77.1242   | Piezometer   | 231           | Unconfined to Semi-Confined                     | 0.50                         | 84            | 0.10         | Both                          | Telemetric           | Atal Jal         |
| 17.   | HR_GW_762                     | Jalmana_31881           | Jalmana             | Village Stadium, Jalmana            | 29.3325  | 77.1128   | Piezometer   | 230           | Unconfined to Semi-Confined                     | 0.50                         | 87            | 0.10         | Both                          | Telemetric           | Atal Jal         |
| 18.   | HR_GW_769                     | Jalpar_31882            | JALPAR              | Govt. Middle School, Jalpar         | 29.3640  | 77.0435   | Piezometer   | 230           | Unconfined to Semi-confined                     | 0.50                         | 93            | 0.10         | Both                          | Telemetric           | Atal Jal         |

| S.No | Well ID                       | Gram Panchayat         | Name of the village | Site Name                            | Latitude | Longitude | Type of Well | Reduced Level | Aquifer Type/Lithology                          | Height of Measuring (m, agl) | Depth (m,bgl) | Diameter (m) | Purpose of Monitoring (WL/WQ) | Monitoring Mechanism | Agency           |
|------|-------------------------------|------------------------|---------------------|--------------------------------------|----------|-----------|--------------|---------------|-------------------------------------------------|------------------------------|---------------|--------------|-------------------------------|----------------------|------------------|
| 19.  | HR_GW_770                     | Khojkipur Khurd_264989 | Khojkipur           | Govt. Sr. Sec. School, Khojkipur     | 29.2661  | 77.1177   | Piezometer   | 228           | Unconfined to Semi-Confined                     | 0.50                         | 84            | 0.10         | Both                          | Telemetric           | Atal Jal         |
| 20.  | GWL-06-071-00531-00031884-001 | Khojkipur_31884        | Khojkipur           | Jalghar No 1 Near Govt School        | 29.2494  | 77.1314   | Bore Well    | 227           | Unconfined to Semi-Confined                     | 0.60                         | 365           | 0.30         | WL                            | Manual               | Atal Jal-Private |
| 21.  | PAN_BAP_KHO_1                 | Khojkipur_31884        | Khojkipur           | Phe Tw                               | 29.2518  | 77.1421   | Tube Well    | 224           | Unconfined to Semi-confined / Sand, Silt, Clay. | 0.55                         | 198           | 0.20         | WQ                            | Manual               | Atal Jal         |
| 22.  | HR_GW_771                     | Matnoli_31887          | Matnoli             | Vetinary Hospital, Matnoli           | 29.2648  | 77.1010   | Piezometer   | 229           | Unconfined to Semi-Confined                     | 0.50                         | 99            | 0.10         | Both                          | Telemetric           | Atal Jal         |
| 23.  | GWL-06-071-00531-00031887-001 | Matnoli_31887          | Matnoli             | Matnoli                              | 29.2668  | 77.0904   | Tube Well    | 229           | Unconfined to Semi-Confined                     | 0.30                         | 122           | 0.25         | WL                            | Manual               | Atal Jal-Private |
| 24.  | HR_GW_772                     | Nurpur Muglan_31892    | NURPUR MUGLAN       | Govt. Middle School, Nurpur Muglan   | 29.3228  | 77.0233   | Piezometer   | 231           | Unconfined to Semi-confined                     | 0.50                         | 93            | 0.10         | Both                          | Telemetric           | Atal Jal         |
| 25.  | HR_GW_773                     | Pasina Kalan_31893     | Pasina Kalan        | Govt. Primary School, Passina Kalan  | 29.3108  | 77.0142   | Piezometer   | 232           | Unconfined to Semi-Confined                     | 0.50                         | 93            | 0.10         | Both                          | Telemetric           | Atal Jal         |
| 26.  | HR_GW_778                     | Pasina Khurd_31894     | Pasina Khurd        | Govt. Sr. Sec. School, Passina Khurd | 29.3135  | 77.0200   | Piezometer   | 231           | Unconfined to Semi-Confined                     | 0.50                         | 94            | 0.10         | Both                          | Telemetric           | Atal Jal         |
| 27.  | GWL-06-071-00531-00264988-001 | Raimal_264988          | Raimal              | Raimal                               | 29.2734  | 77.1080   | Tube Well    | 231           | Unconfined to Semi-Confined                     | 0.91                         | 75            | 0.23         | WL                            | Manual               | Atal Jal-Private |
| 28.  | PAN_BAP_RAI_1                 | Raimal_264988          | Raimal              | Phe Tw                               | 29.2741  | 77.1071   | Tube Well    | 231           | Unconfined to Semi-confined / Sand, Silt, Clay. | 0.91                         | 244           | 0.23         | WQ                            | Manual               | Atal Jal         |
| 29.  | HR_GW_774                     | Raslapur_31896         | Raslapur            | Balmiki Choupal, Raslapur            | 29.3565  | 77.0545   | Piezometer   | 230           | Unconfined to Semi-Confined                     | 0.50                         | 99            | 0.10         | Both                          | Telemetric           | Atal Jal         |
| 30.  | GWL-06-071-00531-00031896-001 | Raslapur_31896         | Raslapur            | Raslapur                             | 29.3551  | 77.0615   | Tube Well    | 229           | Unconfined to Semi-Confined                     | 0.30                         | 61            | 0.23         | WL                            | Manual               | Atal Jal-Private |
| 31.  | HR_GW_775                     | Sanjoli_31898          | Sanjoli             | Govt. Primary School, Sanjoli        | 29.2940  | 77.1099   | Piezometer   | 234           | Unconfined to Semi-Confined                     | 0.50                         | 90            | 0.10         | Both                          | Telemetric           | Atal Jal         |
| 32.  | HR_GW_776                     | Shimla Gujran_31901    | Simla Gurjan        | Govt. Middle School, Simla Gujran    | 29.3200  | 77.0571   | Piezometer   | 231           | Unconfined to Semi-Confined                     | 0.50                         | 97            | 0.10         | Both                          | Telemetric           | Atal Jal         |
| 33.  | GWL-06-071-00531-00031901-001 | Shimla Gujran_31901    | Simla Gujran        | Simla Gujran                         | 29.3178  | 77.0548   | Bore Well    | 229           | Unconfined to Semi-Confined                     | 0.50                         | 305           | 0.30         | WL                            | Manual               | Atal Jal-Private |
| 34.  | HR_GW_777                     | Tajpur_31902           | Tajpur              | Gram Panchayat Stadium, Tajpur       | 29.2990  | 77.0701   | Piezometer   | 226           | Unconfined to Semi-Confined                     | 0.50                         | 90            | 0.10         | Both                          | Telemetric           | Atal Jal         |
| 35.  | GWL-06-071-00531-00031902-001 | Tajpur_31902           | Tajpur              | Tajpur                               | 29.2933  | 77.0634   | Tube Well    | 228           | Unconfined to Semi-Confined                     | 0.00                         | 183           | 0.30         | WL                            | Manual               | Atal Jal-Private |
| 36.  | GWL-06-071-00531-00031904-001 | Ujha_31904             | Ujha                | Near Gsss                            | 29.3687  | 77.0139   | Tube Well    | 232           | Unconfined to Semi-Confined                     | 0.30                         | 52            | 0.30         | WL                            | Manual               | Atal Jal-Private |
| 37.  | PAN_BAP_UJH_1                 | Ujha_31904             | Ujha                | Phe Tw                               | 29.3692  | 77.0231   | Tube Well    | 236           | Unconfined to Semi-confined / Sand, Silt, Clay. | 0.30                         | 366           | 0.30         | WQ                            | Manual               | Atal Jal         |
| 38.  | W291808077043001              | Garhi Bhalor_31876     | Tajpur              | Tajpur                               | 29.2955  | 77.0645   | Tube Well    | 230           | Alluvium                                        | 0.50                         | 86            | 0.25         | WQ                            | Manual               | CGWB             |
| 39.  | W291552077065501              | Khojkipur Khurd_264989 | Khojkipur           | Khojikipur-Pz                        | 29.2654  | 77.1178   | Piezometer   | 226           | Unconfined to Semi Confined                     | 0.50                         | 228           | 0.10         | WL                            | Manual               | CGWB             |

| S.No | Well ID             | Gram Panchayat          | Name of the village | Site Name                           | Latitude | Longitude | Type of Well | Reduced Level | Aquifer Type/Lithology      | Height of Measuring (m, agl) | Depth (m,bgl) | Diameter (m) | Purpose of Monitoring (WL/WQ) | Monitoring Mechanism | Agency |
|------|---------------------|-------------------------|---------------------|-------------------------------------|----------|-----------|--------------|---------------|-----------------------------|------------------------------|---------------|--------------|-------------------------------|----------------------|--------|
| 40.  | W292255077052801    | Sanjoli_31898           | Sanauli Khurd       | Sanauli Khurd-Pz                    | 29.2936  | 77.1098   | Piezometer   | 227           | Unconfined to Semi Confined | 0.50                         | 79            | 0.10         | WL                            | Manual               | CGWB   |
| 41.  | Ba_29.332_77.0831   | Bapoli_31868            | Bapoli              | B. D. P. O.Office                   | 29.3320  | 77.0831   | Piezometer   | 230.02        | Unconfined to Semi Confined | 0.65                         | 41            | 0.10         | WL                            | Manual               | SGWD   |
| 42.  | Ta_29._2883_77.0936 | Begampur Taharpur_31869 | Taharpur            | East Of Village.                    | 29.2883  | 77.0936   | Tube Well    | 232.71        | Unconfined to Semi Confined | 0.70                         | 100           | 0.25         | WL                            | Manual               | SGWD   |
| 43.  | Da_29.344_77.0_274  | Dadola_31873            | Dadola              | Govt. High School                   | 29.3440  | 77.0274   | Piezometer   | 230.9         | Unconfined to Semi Confined | 0.65                         | 60            | 0.10         | WL                            | Manual               | SGWD   |
| 44.  | Go_29.3028_77.1255  | Goela Khurd_31878       | Goila Khurd         | Behind Govt. School.                | 29.3028  | 77.1255   | Tube Well    | 223.75        | Unconfined to Semi Confined | 0.70                         | 70            | 0.25         | WL                            | Manual               | SGWD   |
| 45.  | Ja_29.3361_77.0999  | Jalmana_31881           | Jalmana             | Govt. High School.                  | 29.3361  | 77.0999   | Piezometer   | 229.8         | Unconfined to Semi Confined | 0.65                         | 60            | 0.10         | WL                            | Manual               | SGWD   |
| 46.  | Kh_29.26_77.11      | Khojkipur Khurd_264989  | Khojgi Pur          | North Of Village Near Govt. School. | 29.2600  | 77.1100   | Tube Well    | 226.4         | Unconfined to Semi Confined | 0.70                         | 100           | 0.25         | WL                            | Manual               | SGWD   |
| 47.  | Pa_29.3115_77.0143  | Pasina Kalan_31893      | Pasina Kalan        | Near Govt. School On The Road.      | 29.3115  | 77.0143   | Tube Well    | 232.1         | Unconfined to Semi Confined | 0.70                         | 100           | 0.25         | WL                            | Manual               | SGWD   |

ANNEXURE: 2  
WATER LEVEL (WL) DATA OF MONITORING WELLS

|                                               |         |          |         |       |                  |
|-----------------------------------------------|---------|----------|---------|-------|------------------|
| State                                         | Haryana | District | Panipat | Block | Bapoli           |
| Month of Pre-monsoon Water Level Measurement  |         |          |         |       | May/June         |
| Month of Post-monsoon water Level measurement |         |          |         |       | October/November |

| S.No. | Observation Point       | Source   | Well Types | Co-ordinate |           | Water Level (m) |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |
|-------|-------------------------|----------|------------|-------------|-----------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
|       |                         |          |            | Latitude    | Longitude | 2015            |       | 2016  |       | 2017  |       | 2018  |       | 2019  |       | 2020  |       | 2021  |       | 2022 |      | 2023 |      | 2024 |      |
|       |                         |          |            |             |           | Pre             | Post  | Pre   | Post  | Pre   | Post  | Pre   | Post  | Pre   | Post  | Pre   | Post  | Pre   | Post  | Pre  | Post | Pre  | Post | Pre  | Post |
| 1     | Jalpar_31882            | Atal Jal | Piezometer | 29.3640     | 77.0435   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | 34   | 33   | 32.7 | 36.6 |
| 2     | Nurpur Muglan_31892     | Atal Jal | Piezometer | 29.3228     | 77.0233   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | 40.6 | 43.5 | 42.2 | 43   |
| 3     | Atola Pur_31866         | Atal Jal | Tube Well  | 29.3560     | 77.0815   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | 22.1 | 28.5 | 24.2 | 26.2 |
| 4     | Bapoli_31868            | Atal Jal | Piezometer | 29.3364     | 77.0825   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | NA   | NA   | 24.9 | 28.5 |
| 5     | Behrampur_31867         | Atal Jal | Piezometer | 29.3557     | 77.0803   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | NA   | NA   | 25.8 | 29.6 |
| 6     | Behrampur_31867         | Atal Jal | Tube Well  | 29.3554     | 77.0808   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | 24.8 | 19.9 | 25.9 | 29.2 |
| 7     | Bhalor_31870            | Atal Jal | Piezometer | 29.3148     | 77.1017   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | NA   | NA   | 15.9 | 22.6 |
| 8     | Bhalor_31870            | Atal Jal | Tube Well  | 29.3160     | 77.0973   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | 17.9 | 19   | 15.9 | 22.5 |
| 9     | Dadola_31873            | Atal Jal | Piezometer | 29.3441     | 77.0284   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | NA   | NA   | 39.7 | 39.7 |
| 10    | Garhi Bhalor_31876      | Atal Jal | Piezometer | 29.2996     | 77.0849   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | NA   | NA   | 25.1 | 31.6 |
| 11    | Garhi Bhalor_31876      | Atal Jal | Tube Well  | 29.3004     | 77.0857   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | 23.9 | 29.4 | 24.4 | 32   |
| 12    | Goela Kalan_31877       | Atal Jal | Piezometer | 29.3177     | 77.1150   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | NA   | NA   | 10.7 | 14.7 |
| 13    | Goela Kalan_31877       | Atal Jal | Tube Well  | 29.3201     | 77.1247   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | 8.7  | 14.2 | 12.1 | 11.1 |
| 14    | Goela Khera_245446      | Atal Jal | Tube Well  | 29.3264     | 77.1322   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | 7.1  | 14   | 11.1 | 14   |
| 15    | Goela Khurd_31878       | Atal Jal | Piezometer | 29.3040     | 77.1242   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | NA   | NA   | 9.15 | 10.6 |
| 16    | Jalmana_31881           | Atal Jal | Piezometer | 29.3325     | 77.1128   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | NA   | NA   | 12.3 | 13.2 |
| 17    | Khojkipur Khurd_264989  | Atal Jal | Piezometer | 29.2661     | 77.1177   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | NA   | NA   | 10.1 | 12.6 |
| 18    | Khojkipur_31884         | Atal Jal | Bore Well  | 29.2494     | 77.1314   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | 10.9 | 11.1 | 11.7 | 12.5 |
| 19    | Matnoli_31887           | Atal Jal | Piezometer | 29.2648     | 77.1010   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | NA   | NA   | 17   | 20.2 |
| 20    | Matnoli_31887           | Atal Jal | Tube Well  | 29.2668     | 77.0904   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | 16.3 | 17.8 | 16   | 20.3 |
| 21    | Pasina Kalan_31893      | Atal Jal | Piezometer | 29.3108     | 77.0142   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | NA   | NA   | 44.8 | 47.7 |
| 22    | Pasina Khurd_31894      | Atal Jal | Piezometer | 29.3135     | 77.0200   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | NA   | NA   | 43.2 | 44.6 |
| 23    | Raimal_264988           | Atal Jal | Tube Well  | 29.2734     | 77.1080   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | 14   | 14.2 | 13.9 | 14.4 |
| 24    | Raslapur_31896          | Atal Jal | Piezometer | 29.3565     | 77.0545   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | NA   | NA   | 30.9 | 34.6 |
| 25    | Raslapur_31896          | Atal Jal | Tube Well  | 29.3551     | 77.0615   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | 26.5 | 28.2 | 30.5 | 33.5 |
| 26    | Sanjoli_31898           | Atal Jal | Piezometer | 29.2940     | 77.1099   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | NA   | NA   | 12.3 | 15.1 |
| 27    | Shimla Gujran_31901     | Atal Jal | Piezometer | 29.3200     | 77.0571   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | NA   | NA   | 33.8 | 35.2 |
| 28    | Shimla Gujran_31901     | Atal Jal | Bore Well  | 29.3178     | 77.0548   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | 24.2 | 28.1 | 33.7 | 36.2 |
| 29    | Tajpur_31902            | Atal Jal | Piezometer | 29.2990     | 77.0701   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | NA   | NA   | 29.9 | 33.5 |
| 30    | Tajpur_31902            | Atal Jal | Tube Well  | 29.2933     | 77.0634   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | 33.6 | 32.4 | 31.4 | 33.1 |
| 31    | Ujha_31904              | Atal Jal | Tube Well  | 29.3687     | 77.0139   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | 39.8 | 42.7 | 37.8 | 40.7 |
| 32    | Khojkipur Khurd_264989  | CGWB     | Piezometer | 29.2654     | 77.1178   | NA              | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA   | NA   | 8.39 | 8.44 | 9.5  | 8.87 |
| 33    | Sanjoli_31898           | CGWB     | Piezometer | 29.2936     | 77.1098   | 12.5            | 11.02 | 8.6   | 12.4  | 14    | 13.4  | 16.16 | 12.83 | 19.5  | 14.8  | 14.75 | 17.45 | 16.97 | 14.54 | 17.4 | 17   | NA   | NA   | NA   | NA   |
| 34    | Bapoli_31868            | SGWD     | Piezometer | 29.3320     | 77.0831   | 19.07           | 21.32 | 19.32 | 22.27 | 21.7  | 21.58 | 23.9  | NA    | 27.98 | NA    | 39.35 | 38.36 | 27.46 | 26.53 | 25.8 | 25.9 | 24   | 26.1 | 24.9 | 19.3 |
| 35    | Begampur Taharpur_31869 | SGWD     | Tube Well  | 29.2883     | 77.0936   | 14.23           | 14.01 | 15.25 | 14.43 | 15.94 | 14.38 | 17.06 | 16.29 | 21.15 | 19.22 | 34.9  | 36.89 | 22.86 | 20.89 | 22.8 | 22.6 | 21   | 22.1 | 28.9 | 25.7 |
| 36    | Dadola_31873            | SGWD     | Piezometer | 29.3440     | 77.0274   | 27.07           | 26.64 | 29.22 | 29.84 | 30.45 | 30.31 | 31.15 | 32.15 | 35.56 | 35.12 | 22.3  | 21.19 | 36.81 | 38.25 | 37.6 | 38   | 37.8 | 39.8 | 39.2 | 38.5 |
| 37    | Goela Khurd_31878       | SGWD     | Tube Well  | 29.3028     | 77.1255   | 8.93            | 8.39  | 10.03 | 9.82  | 10.42 | 9.48  | 11.58 | 11.25 | 13.98 | 14.05 | 16.45 | 17.23 | 14.3  | 13.47 | 13.7 | 13.6 | 11.4 | 12.7 | 8.84 | 10   |
| 38    | Jalmana_31881           | SGWD     | Piezometer | 29.3361     | 77.0999   | 12.01           | 11.52 | 13.63 | 13.88 | 14.81 | 14.25 | 15.97 | 16.13 | 16.17 | 19.1  | 27.7  | 28.08 | 16.72 | 16.1  | 16   | 15.9 | 15   | 17.7 | 10.8 | 12.8 |
| 39    | Khojkipur Khurd_264989  | SGWD     | Tube Well  | 29.2600     | 77.1100   | 10.11           | 9.56  | 11.33 | 10.57 | 12.05 | 11.77 | 14.03 | 13.3  | 15.35 | 15.54 | 14.3  | 12.42 | 17.23 | 16.89 | 17.1 | 17.2 | 14.8 | 16.9 | 8.5  | 12.6 |
| 40    | Pasina Kalan_31893      | SGWD     | Tube Well  | 29.3115     | 77.0143   | 35.64           | 35.32 | 36.43 | 35.62 | 36.54 | 35.66 | 37.67 | 35.97 | 38.28 | 36.43 | 35.75 | 37.73 | 40.08 | 39.1  | 40.5 | 40.4 | 40.6 | 41.6 | 44.6 | 47.3 |

ANNEXURE: 3  
HISTORICAL WATER QUALITY (WQ) DATA OF MONITORING WELLS BY SGWB

|                                                  |         |          |         |       |          |
|--------------------------------------------------|---------|----------|---------|-------|----------|
| State                                            | Haryana | District | Panipat | Block | Bapoli   |
| Month of Collection of sample for WQ monitoring* |         |          |         |       | May/June |

|                         |          |              |          |           |      |                                         |      |       |       |       |       |       |      |                 |                  |                 |       |      |                 |
|-------------------------|----------|--------------|----------|-----------|------|-----------------------------------------|------|-------|-------|-------|-------|-------|------|-----------------|------------------|-----------------|-------|------|-----------------|
| Gram Panchayat          | Source   | Type of well | Latitude | Longitude | Year | pH                                      | EC   | TDS   | TH    | Ca    | Mg    | Na    | K    | CO <sub>3</sub> | HCO <sub>3</sub> | SO <sub>4</sub> | Cl    | F    | NO <sub>3</sub> |
| Atola Pur_31866         | Atal Jal | Tubewell     | 29.358   | 77.0834   | 2024 | 6.8                                     | 585  | 353   | 160.1 | 44.09 | 12.15 | 57    | 4    | 0.083           | 139.9            | 46.61           | 43.67 | 0.32 | 19.25           |
| Bapoli_31868            | Atal Jal | Pizeometer   | 29.3364  | 77.0825   | 2024 | 7.83                                    | 1060 | 583   | 260.2 | 72.14 | 19.45 | 94    | 6    | 1.462           | 228.5            | 133.8           | 73.45 | 0.53 | 30.25           |
| Begampur Taharpur_31869 | Atal Jal | Tubewell     | 29.2899  | 77.0937   | 2024 | 7.06                                    | 1078 | 595   | 270.2 | 72.14 | 21.88 | 96    | 6    | 0.259           | 239.7            | 141.8           | 75.44 | 0.55 | 30.75           |
| Behrampur_31867         | Atal Jal | Pizeometer   | 29.3557  | 77.0803   | 2024 | 7.72                                    | 977  | 634   | 290.2 | 76.15 | 24.3  | 102   | 7    | 1.233           | 248.7            | 125.8           | 79.41 | 0.58 | 32.5            |
| Bhalor_31870            | Atal Jal | Pizeometer   | 29.3148  | 77.1017   | 2024 | 7.55                                    | 1209 | 670   | 300.2 | 80.16 | 24.3  | 108   | 7    | 0.901           | 269.1            | 161             | 85.36 | 0.61 | 34.5            |
| Dadola_31873            | Atal Jal | Pizeometer   | 29.3441  | 77.0284   | 2024 | 7.85                                    | 662  | 427   | 190.2 | 52.1  | 14.58 | 69    | 4    | 1.131           | 168.8            | 82.92           | 53.6  | 0.39 | 22.75           |
| Garhi Bhalor_31876      | CGWB     | Tube Well    | 29.2955  | 77.0645   | 2015 | 8.6                                     | 671  | ND    | 51.0  | 16.0  | 2.0   | 150.0 | 3.0  | 47.0            | 226.1            | 70.0            | 28.0  | 2.23 | 1.00            |
| Garhi Bhalor_31876      | CGWB     | Tube Well    | 29.2955  | 77.0645   | 2016 | 8.32                                    | 808  | ND    | 262.0 | 32.0  | 44.0  | 98.0  | 5.0  | 30.0            | 350.0            | 97.0            | 21.0  | 0.52 | BDL             |
| Garhi Bhalor_31876      | CGWB     | Tube Well    | 29.2955  | 77.0645   | 2017 | 8.53                                    | 900  | ND    | 320.0 | 12.0  | 71.0  | 79.0  | 6.0  | 12.0            | 403.0            | 35.0            | 71.0  | 0.60 | 14.00           |
| Garhi Bhalor_31876      | CGWB     | Tube Well    | 29.2955  | 77.0645   | 2018 | 8.89                                    | 640  | ND    | 49.0  | 7.8   | 7.2   | 134.0 | 1.0  | 39.0            | 288.0            | 16.0            | 14.0  | 0.69 | 0.20            |
| Garhi Bhalor_31876      | CGWB     | Tube Well    | 29.2955  | 77.0645   | 2019 | Sample not collected from this location |      |       |       |       |       |       |      |                 |                  |                 |       |      |                 |
| Garhi Bhalor_31876      | CGWB     | Tube Well    | 29.2955  | 77.0645   | 2020 | 8.47                                    | 515  | ND    | 160.0 | 12.0  | 32.0  | 73.0  | 3.0  | 12.0            | 244.0            | 81.0            | 21.0  | 0.00 | 0.68            |
| Garhi Bhalor_31876      | CGWB     | Tube Well    | 29.2955  | 77.0645   | 2021 | 8.84                                    | 593  | ND    | 62.0  | 8.2   | 10.0  | 142.0 | 2.0  | 47.0            | 301.0            | 0.0             | 21.0  | 1.82 | 0.00            |
| Garhi Bhalor_31876      | CGWB     | Tube Well    | 29.2955  | 77.0645   | 2022 | 8.36                                    | 548  | ND    | 120.1 | 24.0  | 14.6  | 86.0  | 2.8  | 60.7            | 200.7            | 0.0             | 28.4  | 1.31 | 0.00            |
| Garhi Bhalor_31876      | CGWB     | Tube Well    | 29.2955  | 77.0645   | 2023 | 7.69                                    | 1587 | ND    | 530.4 | 72.1  | 85.1  | 125.0 | 8.0  | 0.0             | 414.9            | 24.0            | 297.8 | 0.40 | 2.00            |
| Garhi Bhalor_31876      | CGWB     | Tube Well    | 29.2955  | 77.0645   | 2024 | 8.39                                    | 567  |       | 110.1 | 20.04 | 14.59 | 96    | 2.76 | 36              | 256.3            | 15              | 21.27 | 1.5  | BDL             |
| Garhi Bhalor_31876      | Atal Jal | Pizeometer   | 29.2996  | 77.0849   | 2024 | 8.08                                    | 1209 | 741   | 340.3 | 92.18 | 26.74 | 119   | 8    | 3.39            | 296.6            | 162.9           | 93.3  | 0.68 | 37.75           |
| Goela Kalan_31877       | Atal Jal | Pizeometer   | 29.3177  | 77.115    | 2024 | 8.12                                    | 1215 | 762   | 350.3 | 92.18 | 29.17 | 123   | 8    | 3.841           | 306.1            | 162.9           | 95.29 | 0.7  | 38.75           |
| Goela Khera_245446      | Atal Jal | Tubewell     | 29.3232  | 77.1404   | 2024 | 6.16                                    | 1472 | 926   | 420.3 | 112.2 | 34.03 | 149   | 10   | 0.05            | 369.9            | 185             | 117.1 | 0.85 | 46.5            |
| Goela Khurd_31878       | Atal Jal | Pizeometer   | 29.304   | 77.1242   | 2024 | 7.88                                    | 1224 | 699   | 320.3 | 84.16 | 26.74 | 113   | 7    | 1.997           | 278              | 165.3           | 87.35 | 0.64 | 35.75           |
| Jalmana_31881           | Atal Jal | Pizeometer   | 29.3325  | 77.1128   | 2024 | 7.11                                    | 1127 | 722   | 330.3 | 88.17 | 26.74 | 116   | 7    | 0.351           | 289.6            | 147.8           | 91.32 | 0.66 | 36.75           |
| Jalpar_31882            | Atal Jal | Piezometer   | 29.364   | 77.0435   | 2023 | 7.78                                    | 1254 | 769.1 | 462.8 | 143   | 26.13 | 95    | 20   | 0.0             | 413.4            | 51.41           | 141.7 | 1.22 | 17.68           |
| Jalpar_31882            | Atal Jal | Piezometer   | 29.364   | 77.0435   | 2024 | 7.78                                    | 1254 | 822   | 370.3 | 100.2 | 29.16 | 133   | 8    | 1.9             | 328.1            | 97.04           | 41.5  | 0.75 | 103.2           |
| Khojkipur Khurd_264989  | Atal Jal | Pizeometer   | 29.2661  | 77.1177   | 2024 | 7.71                                    | 1235 | 718   | 330.3 | 88.17 | 26.74 | 116   | 7    | 1.398           | 288.6            | 157.8           | 91.32 | 0.66 | 36.5            |
| Khojkipur_31884         | Atal Jal | Tubewell     | 29.2518  | 77.1421   | 2024 | 8.17                                    | 631  | 403   | 180.1 | 48.09 | 14.58 | 65    | 4    | 2.225           | 157.7            | 91.91           | 51.62 | 0.37 | 21.75           |
| Matnoli_31887           | Atal Jal | Pizeometer   | 29.2648  | 77.101    | 2024 | 8.06                                    | 1205 | 735   | 330.3 | 88.17 | 26.74 | 119   | 8    | 3.238           | 296.7            | 161             | 93.3  | 0.67 | 37.5            |
| Nurpur Muglan_31892     | Atal Jal | Piezometer   | 29.3228  | 77.0233   | 2023 | 8.13                                    | 1160 | 750.5 | 451.6 | 139.5 | 24.76 | 95    | 20   | 0.0             | 402.8            | 50.24           | 139   | 0.61 | 17.25           |
| Nurpur Muglan_31892     | Atal Jal | Piezometer   | 29.3228  | 77.0233   | 2024 | 8.13                                    | 1160 | 760   | 340.3 | 92.18 | 26.74 | 123   | 8    | 3.9             | 306.1            | 401.5           | 38.5  | 0.7  | 95.29           |
| Pasina Kalan_31893      | Atal Jal | Pizeometer   | 29.3108  | 77.0142   | 2024 | 7.79                                    | 1085 | 627   | 280.2 | 76.15 | 21.87 | 101   | 6    | 1.449           | 248.5            | 142.7           | 79.41 | 0.58 | 32.25           |
| Pasina Khurd_31894      | Atal Jal | Pizeometer   | 29.3135  | 77.02     | 2024 | 7.82                                    | 1158 | 683   | 310.3 | 84.16 | 24.31 | 110   | 7    | 1.677           | 268.3            | 150.7           | 85.36 | 0.62 | 35              |
| Raimal_264988           | Atal Jal | Tubewell     | 29.2741  | 77.1071   | 2024 | 7.62                                    | 746  | 422   | 190.2 | 52.1  | 14.58 | 68    | 4    | 0.666           | 169.3            | 103.7           | 53.6  | 0.39 | 22.5            |
| Raslapur_31896          | Atal Jal | Pizeometer   | 29.3565  | 77.0545   | 2024 | 7.54                                    | 1216 | 769   | 350.3 | 92.18 | 29.17 | 124   | 8    | 1.01            | 309              | 154             | 97.27 | 0.7  | 39              |
| Sanjoli_31898           | Atal Jal | Pizeometer   | 29.294   | 77.1099   | 2024 | 8                                       | 1204 | 721   | 330.3 | 88.17 | 26.74 | 116   | 7    | 2.726           | 287.2            | 149.3           | 91.32 | 0.66 | 36.75           |
| Shimla Gujran_31901     | Atal Jal | Pizeometer   | 29.32    | 77.0571   | 2024 | 8.21                                    | 1264 | 794   | 360.3 | 96.19 | 29.17 | 128   | 8    | 4.878           | 315.1            | 158.2           | 99.26 | 0.73 | 40.25           |
| Tajpur_31902            | Atal Jal | Pizeometer   | 29.299   | 77.0701   | 2024 | 8.24                                    | 1192 | 740   | 340.3 | 92.18 | 26.74 | 119   | 8    | 4.901           | 295.1            | 154.9           | 93.3  | 0.68 | 37.75           |
| Ujha_31904              | Atal Jal | Tubewell     | 29.3692  | 77.0231   | 2024 | 6.77                                    | 984  | 602   | 270.2 | 72.14 | 21.88 | 97    | 6    | 0.133           | 239.9            | 130.9           | 75.44 | 0.55 | 31              |

|                  |               |          |                          |          |           |                 |                 |                 |                 |                 |
|------------------|---------------|----------|--------------------------|----------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Name of District | Name of Block | Source   | Name of village/ OW data | Latitude | Longitude | EC<br>June 2020 | EC<br>June-2021 | EC<br>June-2022 | EC<br>June-2023 | EC<br>June-2024 |
| Panipat_71       | Bapoli_531    | Atal Jal | Atola Pur_31866          | 29.358   | 77.0834   | ND              | ND              | ND              | ND              | 585             |

| Name of District | Name of Block | Source   | Name of village/ OW data | Latitude | Longitude | EC<br>June 2020 | EC<br>June-2021 | EC<br>June-2022 | EC<br>June-2023 | EC<br>June-2024 |
|------------------|---------------|----------|--------------------------|----------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Panipat_71       | Bapoli_531    | SGWB     | Bapoli                   | 29.332   | 77.0831   | 700             | 700             | 1000            | 900             | 900             |
| Panipat_71       | Bapoli_531    | Atal Jal | Bapoli_31868             | 29.3364  | 77.0825   | ND              | ND              | ND              | ND              | 1060            |
| Panipat_71       | Bapoli_531    | Atal Jal | Begampur Taharpur_31869  | 29.2899  | 77.0937   | ND              | ND              | ND              | ND              | 1078            |
| Panipat_71       | Bapoli_531    | Atal Jal | Behrampur_31867          | 29.3557  | 77.0803   | ND              | ND              | ND              | ND              | 977             |
| Panipat_71       | Bapoli_531    | Atal Jal | Bhalor_31870             | 29.3148  | 77.1017   | ND              | ND              | ND              | ND              | 1209            |
| Panipat_71       | Bapoli_531    | SGWB     | Biholi                   | 29.284   | 77.043    | 850             | 750             | 950             | 800             | 850             |
| Panipat_71       | Bapoli_531    | SGWB     | Dadola                   | 29.344   | 77.0274   | 800             | 810             | 900             | 900             | 800             |
| Panipat_71       | Bapoli_531    | Atal Jal | Dadola_31873             | 29.3441  | 77.0284   | ND              | ND              | ND              | ND              | 662             |
| Panipat_71       | Bapoli_531    | Atal Jal | Garhi Bhalor_31876       | 29.2996  | 77.0849   | ND              | ND              | ND              | ND              | 1209            |
| Panipat_71       | Bapoli_531    | Atal Jal | Goela Kalan_31877        | 29.3177  | 77.115    | ND              | ND              | ND              | ND              | 1215            |
| Panipat_71       | Bapoli_531    | Atal Jal | Goela Khera_245446       | 29.3232  | 77.1404   | ND              | ND              | ND              | ND              | 1472            |
| Panipat_71       | Bapoli_531    | Atal Jal | Goela Khurd_31878        | 29.304   | 77.1242   | ND              | ND              | ND              | ND              | 1224            |
| Panipat_71       | Bapoli_531    | SGWB     | GoilaKhurd               | 29.3028  | 77.1255   | 900             | 800             | 900             | 850             | 800             |
| Panipat_71       | Bapoli_531    | SGWB     | Jalmana                  | 29.3361  | 77.0999   | 800             | 900             | 850             | 850             | 800             |
| Panipat_71       | Bapoli_531    | Atal Jal | Jalmana_31881            | 29.3325  | 77.1128   | ND              | ND              | ND              | ND              | 1127            |
| Panipat_71       | Bapoli_531    | Atal Jal | Jalpar_31882             | 29.364   | 77.0435   | ND              | ND              | ND              | 1254            | #N/A            |
| Panipat_71       | Bapoli_531    | SGWB     | KhojgiPur                | 29.26    | 77.11     | 700             | 700             | 600             | 700             | 650             |
| Panipat_71       | Bapoli_531    | Atal Jal | Khojkipur Khurd_264989   | 29.2661  | 77.1177   | ND              | ND              | ND              | ND              | 1235            |
| Panipat_71       | Bapoli_531    | Atal Jal | Khojkipur_31884          | 29.2518  | 77.1421   | ND              | ND              | ND              | ND              | 631             |
| Panipat_71       | Bapoli_531    | Atal Jal | Matnoli_31887            | 29.2648  | 77.101    | ND              | ND              | ND              | ND              | 1205            |
| Panipat_71       | Bapoli_531    | Atal Jal | Nurpur Muglan_31892      | 29.3228  | 77.0233   | ND              | ND              | ND              | 1160            | #N/A            |
| Panipat_71       | Bapoli_531    | Atal Jal | Pasina Kalan_31893       | 29.3108  | 77.0142   | ND              | ND              | ND              | ND              | 1085            |
| Panipat_71       | Bapoli_531    | Atal Jal | Pasina Khurd_31894       | 29.3135  | 77.02     | ND              | ND              | ND              | ND              | 1158            |
| Panipat_71       | Bapoli_531    | SGWB     | PasinaKalan              | 29.3115  | 77.0143   | 850             | 900             | 800             | 800             | 750             |
| Panipat_71       | Bapoli_531    | Atal Jal | Raimal_264988            | 29.2741  | 77.1071   | ND              | ND              | ND              | ND              | 746             |
| Panipat_71       | Bapoli_531    | Atal Jal | Raslapur_31896           | 29.3565  | 77.0545   | ND              | ND              | ND              | ND              | 1216            |
| Panipat_71       | Bapoli_531    | Atal Jal | Sanjoli_31898            | 29.294   | 77.1099   | ND              | ND              | ND              | ND              | 1204            |
| Panipat_71       | Bapoli_531    | Atal Jal | Shimla Gujran_31901      | 29.32    | 77.0571   | ND              | ND              | ND              | ND              | 1264            |
| Panipat_71       | Bapoli_531    | SGWB     | Taharpur                 | 29.2883  | 77.0936   | 750             | 750             | 800             | 750             | 700             |
| Panipat_71       | Bapoli_531    | Atal Jal | Tajpur_31902             | 29.299   | 77.0701   | ND              | ND              | ND              | ND              | 1192            |
| Panipat_71       | Bapoli_531    | Atal Jal | Ujha_31904               | 29.3692  | 77.0231   | ND              | ND              | ND              | ND              | 984             |