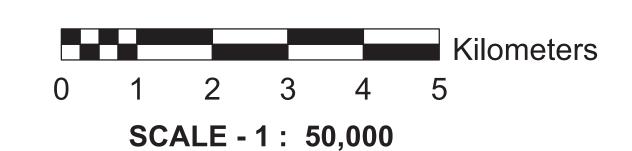
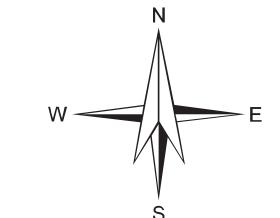
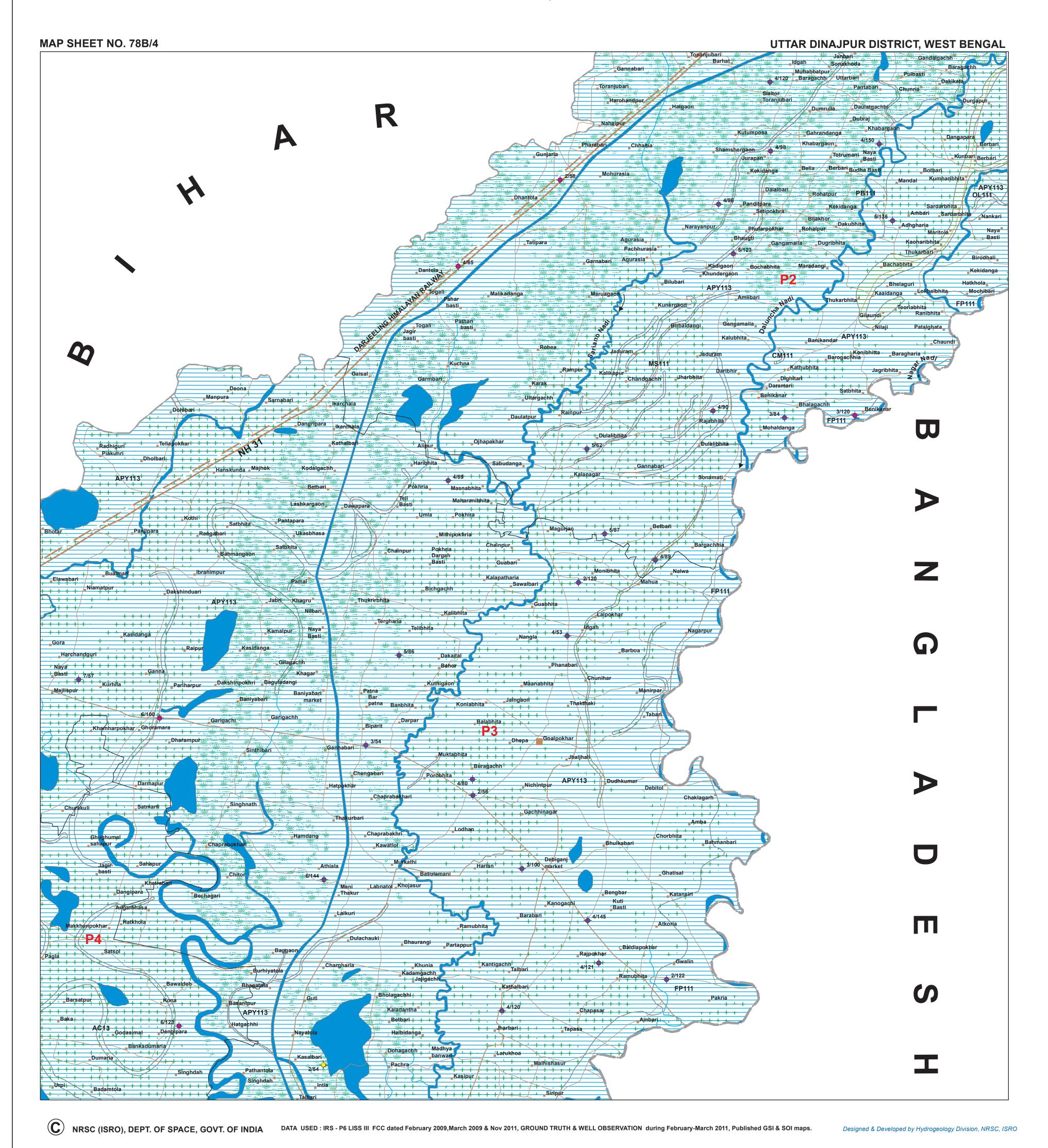
GROUND WATER PROSPECTS MAP

(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)







L E G E N D

| HYDROGEOMORPHIC UNIT) REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE COLOUR INDICATES YIELD RANGE AND HATCHING INDICATE DEPTH RANGE) PB111 PB111 O Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q | (REPRESENTED IN THE MAP WITH NUMERIC CODE) | (REPRESENTED IN THE MAP WITH ALPHABETIC CODE) Point Bar (PB) | PRE / POST- MONSOON (AVERAGE IN METERS) NO. OF WELLS OBSERVED NO Well Observed | BASED ON AVAILABILITY OF WATER (RAINFALL & OTHER SOURCES) | AQUIFER MATERIAL LS = LOOSE SEDIMENTS PR = PERMEABLE ROCK FIR = FISSURED ROCK FR = FRACTURED ROCK WR /= WEATHERED ROCK / WM WEATHERED MATERIAL IR = IMPERIVIOUS ROCK | TYPE OF WELLS SUITABLE DW = DUG WELL RW = RING WELL BW = BORE WELL TW = TUBE WELL | DEPTH RANGE OF WELLS (SUGGESTED) MIN - MAX | YIELD RANGE OF WELLS (EXPECTED) | HOMOGENEITY IN THE UNIT & SUCCESS RATE OF WELLS | QUALITY OF WATER POTABLE (P) NON - POTABLE (NP) | GROUND WATER IRRIGATED AREA | SUITABLE & PRIORITY PT = PERCOLATION TANK CD = CHECK DAM NB = NALA BUND | (PROBLEMS / LIMITATIONS) |
|---|--|---|--|---|---|--|---|---------------------------------------|---|--|--------------------------------------|--|--|
| PB111 OL111 OL111 | , | Point Bar | No Well Observed | | WM WEATHERED MATERIAL | | (IN METERS) | (in LPM or m ³ /day) | (PROBABILITY) VERY HIGH | (INDICATE REASONS IF NON POTABLE) | (APPROX . RANGE IN PERCENTAGE) | RW = RECHARGE WELL DT = DESILTING OF TANK RP = RECHARGE PIT SD = SUBSURFACE DYKE | |
| OF111 S O G D O S : t | | | No Well Observed | | | DBW / = DUG CUM-BORE WELL / DTW DUG CUM-TUBE WELL | | | HIGH MODERATE LOW | | | RS = RECHARGE SHAFT ST = STORAGE TANK SCM = SOIL CONSERVATION MEASURES | |
| OL111 | | | | Very Good | LS | RW TW | 5-10 m | 300-400 LPM | Very High | Р | Nil | Not Required | Groundwater prospects very h with high recharge potential. Recharge structures not requi |
| t D | ugaon Formation/Present Day Depo (Present Day) (Present Day) (Sand Dominant) (111) (Hill Day) | Oxbow Lake (OL) | No Well Observed | Good | LS | TW | 20-30 m | 200-300 LPM | Moderate | Р | Nil | Not Required | Though occur as water bodies but highly productive aquifer of at depth. |
| P r e s e c c c c c c c c c c c c c c c c c | | Cut-off Meander (CM) | No Well Observed | Good | LS | RW TW | 10-20 m | 300-400 LPM | High | Р | Nil | Not Required | Highly productive shallow aqu with good recharge from the ri base flow. |
| haugaon Form | | Meander Scar (MS) | No Well Observed | Very Good | LS | RW TW | 10-15 m | 200- 250 LPM | High | P | Nil | Not Required | Highly productive shallow aqu with good recharge. |
| FP111 | | Flood Plain (FP) | 3/3 2 | Very Good | LS | TW | <30 m | 250-350 LPM | Very High | Р | Nil | Not Required | Receives good recharge and fo shallow aquifer. Overall quality water is potable |
| Koshi Formation | Alluvium (Sand and Silt) (113) | Alluvial Plain Younger (APY) | 5/3 | Good | LS | TW | 25-30 m | 200- 250 LPM | High | Р | 50 | Not Required | Highly productive aquifer at shallow depth with good recharge. |
| paiguri/Ganga- arly - Late Ho | Alluvium (Sand,Silt & Clay) (13) (13) | Abandoned Channel (AC) | No Well Observed | Excellent to Very Good | LS | RW TW | 10-15 m | 250 - 300 LPM | Very High | Р | Nil | Not Required | Highly productive shallow aquifers with good recharge from base flow. |
| Malda/Jal | | Palaeo-channel (PC) | No Well Observed | Very Good | LS | RW TW | 15-20 m | 150 - 200 LPM | Very High | Р | Nil | Not Required | Highly productive shallow aquifers with good recharge. |
| F// ——- | These are faul | lt / fracture zones, which ge | enerally act as conduits for mo | ovement of ground water in | hard rocks. Along these zone | s, the yields are significantl | y higher and wells are | e likely to be sustainal | ble for longer duratio | n. However, the inferred | l fractures need to be o | confirmed by detailed ground surveys. | |

