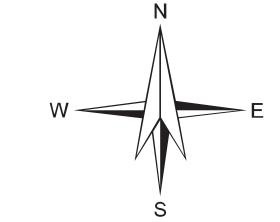
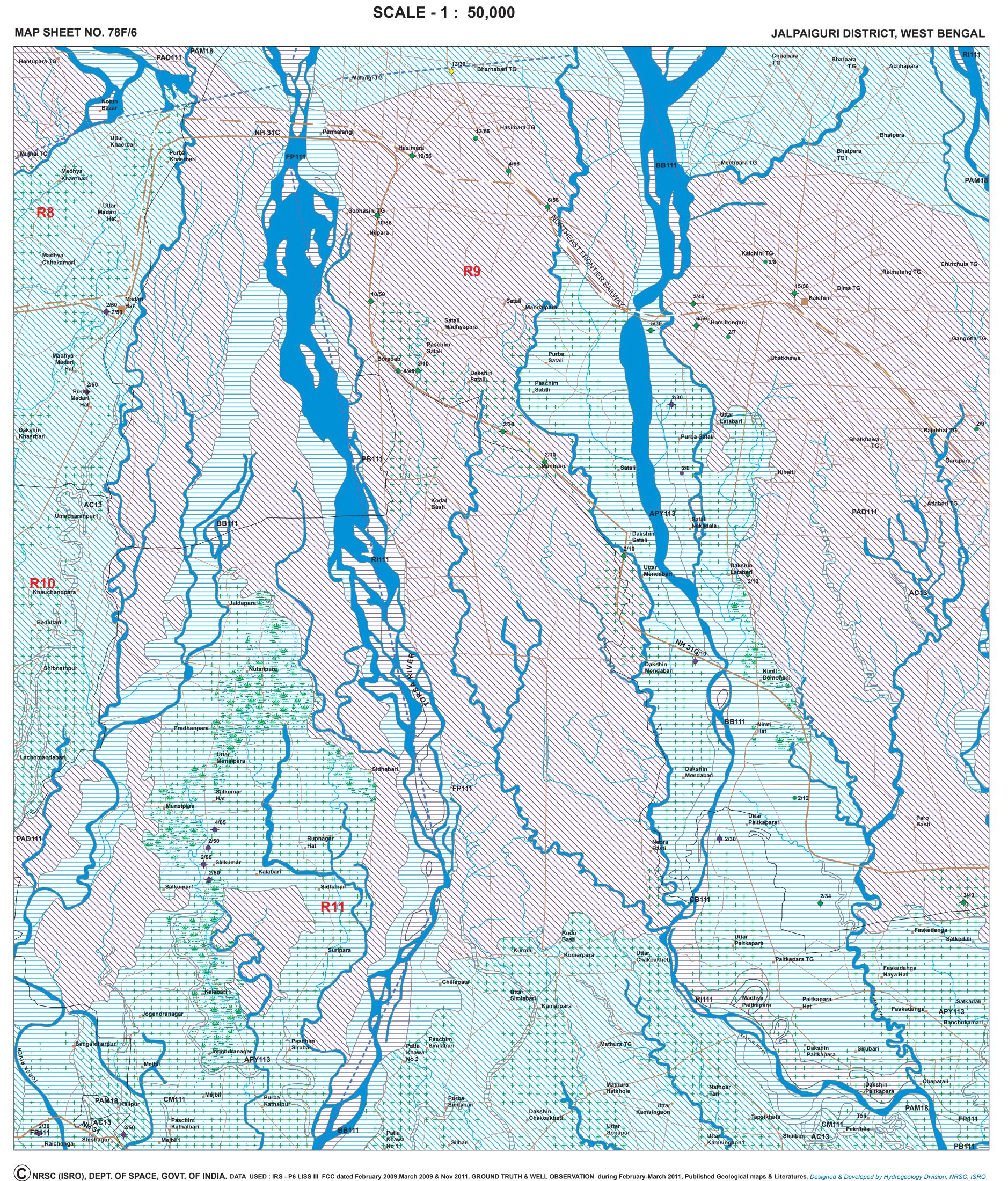
GROUND WATER PROSPECTS MAP

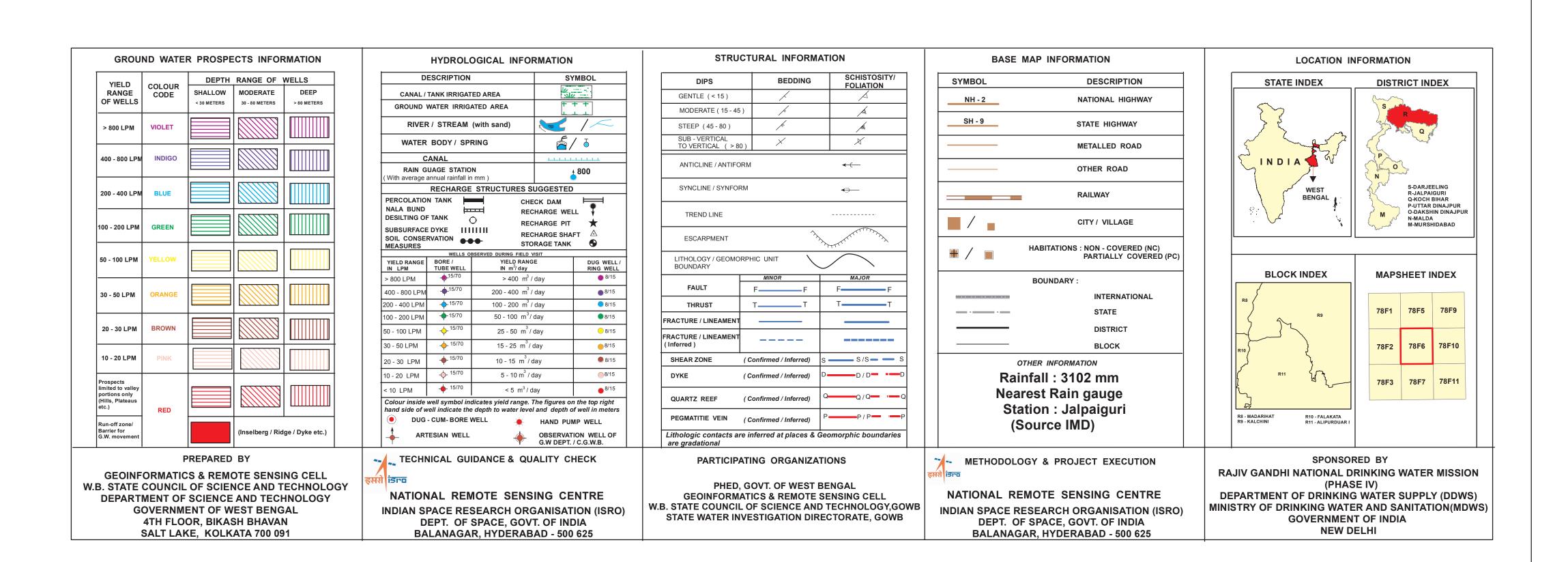
(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)



0 1 2 3 4 5



| | | | | | L E | G | E N | N D | | | | | |
|--|--|---|--|---|---|---|--|--|--|--|--|--|---|
| MAP UNIT | GEOLOGICAL SEQUENCE / ROCK TYPE (REPRESENTED IN THE MAP WITH NUMERIC CODE) | GEOMORPHIC UNIT / LANDFORM (REPRESENTED IN THE MAP WITH ALPHABETIC CODE) | DEPTH TO WATER LEVEL PRE / POST- MONSOON (AVERAGE IN METERS) NO. OF WELLS OBSERVED | RECHARGE CONDITIONS BASED ON AVAILABILITY OF WATER (RAINFALL & OTHER SOURCES) | GROUND WATER PROSPECTS | | | | | | | RECHARGE STRUCTURES | REMARKS |
| (HYDROGEOMORPHIC UNIT) REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE (COLOUR INDICATES YIELD RANGE AND HATCHING INDICATE DEPTH RANGE) | | | | | 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 DBW /= DUG CUM-BORE WELL / DTW DUG CUM-TUBE WELL | DEPTH RANGE OF WELLS (SUGGESTED) MIN - MAX (IN METERS) | YIELD RANGE OF WELLS (EXPECTED) (in LPM or m ³ /day) | HOMOGENEITY IN THE UNIT & SUCCESS RATE OF WELLS (PROBABILITY) VERY HIGH HIGH MODERATE LOW | QUALITY OF WATER POTABLE (P) NON - POTABLE (NP) (INDICATE REASONS IF NON POTABLE) | GROUND WATER IRRIGATED AREA (APPROX . RANGE IN PERCENTAGE) | SUITABLE & PRIORITY PT = PERCOLATION TANK CD = CHECK DAM NB = NALA BUND RW = RECHARGE WELL DT = DESILTING OF TANK RP = RECHARGE PIT SD = SUBSURFACE DYKE RS = RECHARGE SHAFT ST = STORAGE TANK SCM = SOIL CONSERVATION MEASURES | (PROBLEMS / LIMITATIONS) |
| CB111 | osits | Channel Bar (CB) | No Well Observed | Excellent | LS | TW | 5- 10 m | 400-500 LPM | Very High | P | Nil | Not Required | Highly productive shallow aquife with good recharge from the rive base flow. |
| BB111 | | Braid Bar (BB) | No Well Observed | Excellent | LS | TW | 5-10 m | 400-500 LPM | Very High | Р | 65 | Not Required | Groundwater prospects very high with high recharge potential. Recharge structures not required |
| PB111 | t Day Depo | Point Bar (PB) | No Well Observed | Very Good | LS | RW TW | 5-10 m | 300-400 LPM | Very High | P | Nil | Not Required | Groundwater prospects very high with high recharge potential. Recharge structures not required. |
| RI111 | C o s o u c o s o u c o s o u c o s o u c o s o u c o s o u c o s o u c o s o u c o s o u c o s o u c o s o u c o | River Island (RI) | No Well Observed | Very Good | LS | TW | 5-10 m | 400-500 LPM | High | P | Nil | Not Required | Highly productive aquifer in shallow depth.Good recharge |
| CM111 | on Formati (P | Cut-off Meander (CM) | No Well Observed | Very Good | LS | RW TW | 10-20 m | 300-400 LPM | Very High | Р | Nil | Not Required | Highly productive aquifer in shallow depth.Good recharge |
| FP111 | S h a u g a | Flood Plain (FP) | 1 | Very Good | LS | TW | 10-30 m | 250-350 LPM | Very High | P | Nil | Not Required | Receives good recharge and form shallow aquifer.Overall quality of the water is potable. |
| PAD111 | | Piedmont Alluvium Deep (PAD) | <u>6 / 4</u> 19 | Good | LS | TW | 60-80 m | 400-500 LPM | Low to Moderate | P | Nil | Not Required | Good ground water prospect at greater depth as the principal aquifer occurs below PAM. |
| APY113 | Alluvium o ac Mo (Sand and Silt) oo P o i | Alluvial Plain Younger (APY) | 3 / 2 12 | Good | LS | TW | 25-30 m | 200-250 LPM | High | P | 35 | Not Required | Highly productive aquifer at shallow depth with good recharge. |
| AC13 | Alluvium Alluvium Alluvi | 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 aquifer with good recharge from base flo |
| PAM18 | amsing Formation Pleistocene- Rr.Holocene) (Br.Holocene) (Br.Holocene) (Br.Holocene) (Br.Holocene) | Piedmont Alluvium Moderate (PAM) | <u>5 / 4</u> 9 | Good | LS | TW | 40 - 60m | 300-400 LPM | Low to Moderate | Р | 25 | Not Required | Good ground water prospect at modarate depth along piedmont |
| F// D /QQ D /QQ / | These are fau | | enerally act as conduits for m | | | | y higher and wells ar | re likely to be sustaina | ble for longer duratio | n. However, the inferre | d fractures need to be | confirmed by detailed ground survey. | s. |



N.B.-The depth range and yield range of wells may vary within the unit because of certain inhomogeneities. Fractures/Lineaments which are clearly observed / inferred from the satellite image are indicated on the map. There could be some obscured fractures which also influence the ground water prospects.

Locations of the recharge structures shown in the map are tentative. This map is useful for narrowing down the target zones, and exact location on the ground for wells and recharge structures should be identified based on follow-up ground hydrogeological/geophysical surveys.