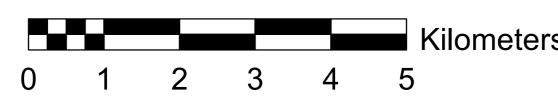
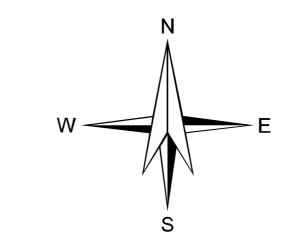
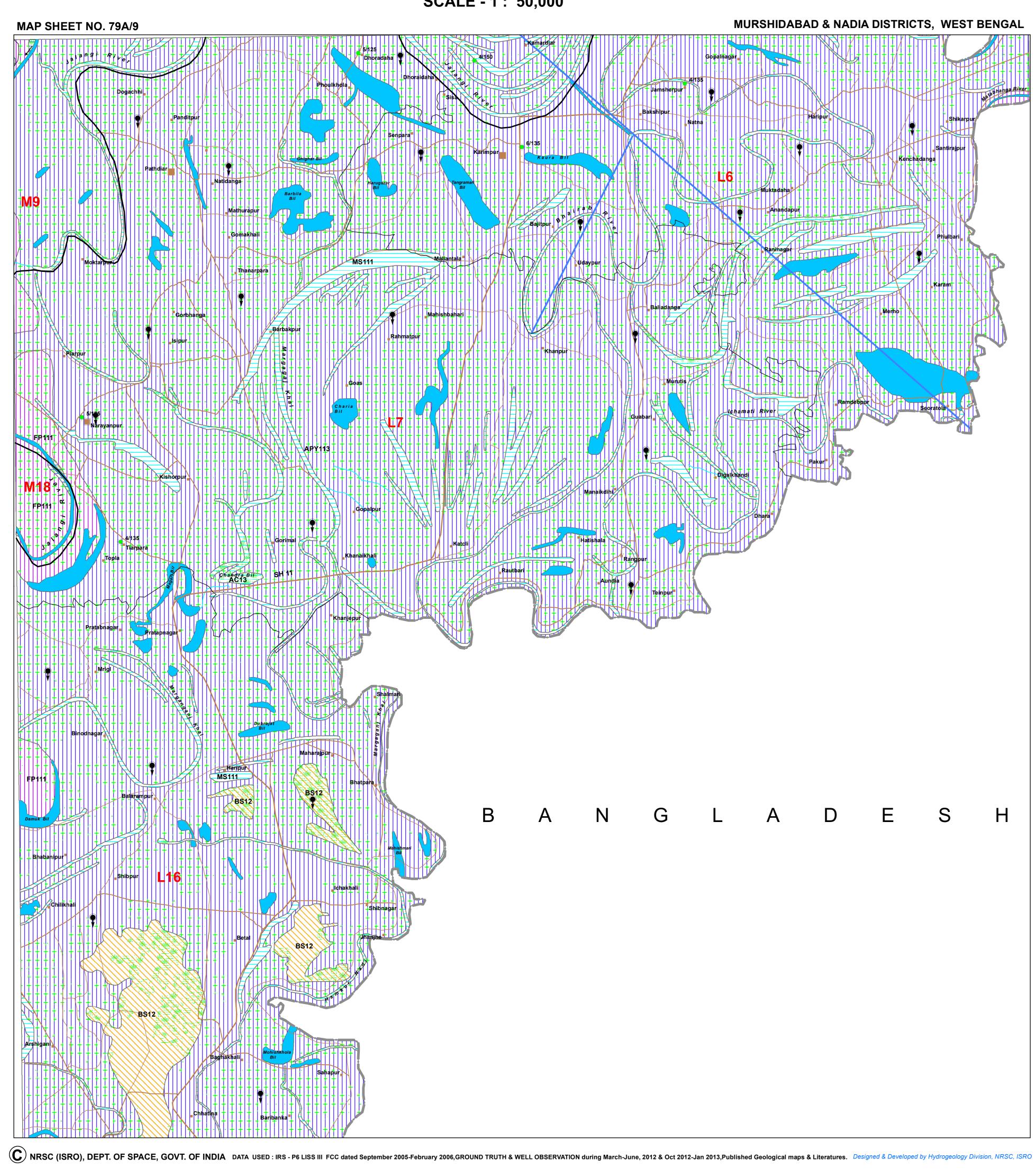
GROUND WATER PROSPECTS MAP

(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)

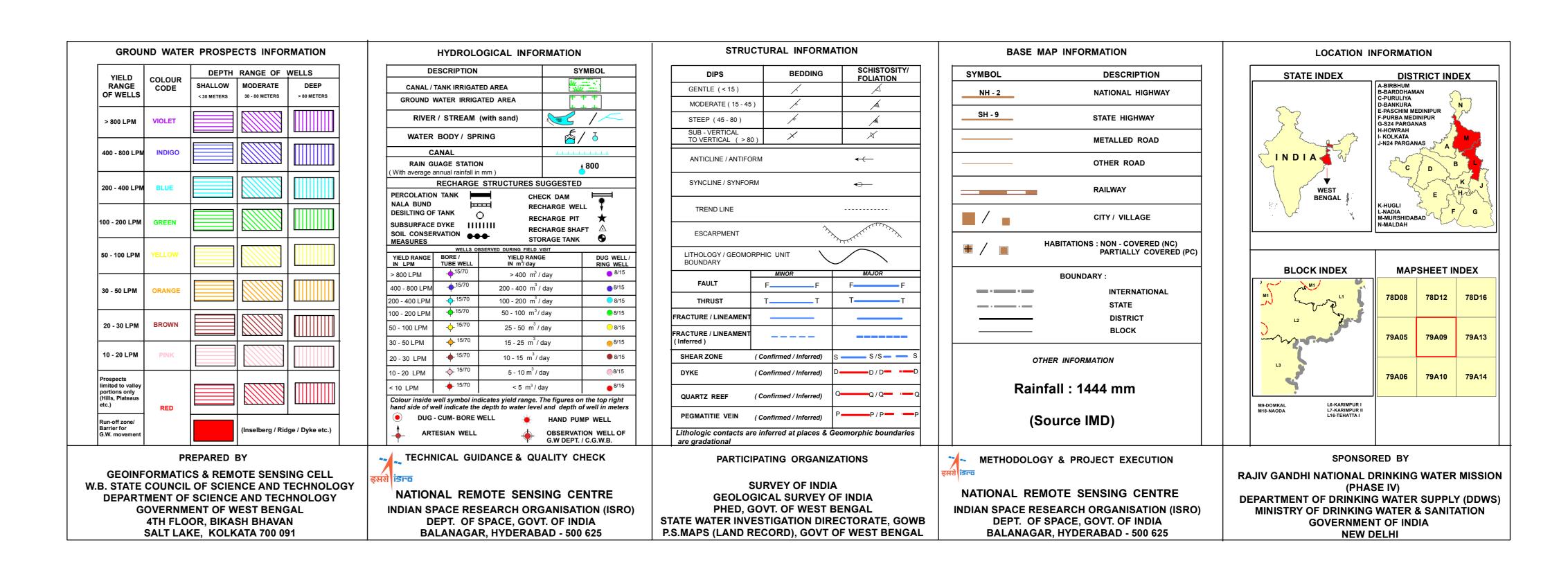








SEOLOGICAL SEQUENCE GEOMORPHIC **STRUCTURES** WATER LEVEL UNIT / LANDFORM ROCK TYPE SUITABLE & HYDROGEOMORPHIC BASED ON AVAILABILITY OF WATER TYPE OF WELLS SUITABLE REPRESENTED IN THE MAP WITH REMARKS PT = PERCOLATION TANK CD = CHECK DAM NB = NALA BUND RW = RECHARGE WELL DT = DESILTING OF TANK RP = RECHARGE PIT SD = SUBSURFACE DYKE RS = RECHARGE SHAFT ST = STORAGE TANK SCM = SOIL CONSERVATION MEASURES (AVERAGE IN METERS) (PROBLEMS / LIMITATIONS) RATE OF WELLS ALPHANUMERIC CODE LS = LOOSE SEDIMENTS PR = PERMEABLE ROCK FIR = FISSURED ROCK FR = FRACTURED ROCK WR /= WEATHERED ROCK / WM WEATHERED MATERIAL IR = IMPERIVIOUS ROCK DW = DUG WELL RW = RING WELL BW = BORE WELL TW = TUBE WELL DBW /= DUG CUM-BORE WELL / DTW DUG CUM-TUBE WELL (REPRESENTED IN THE MAP WITH (COLOUR INDICATES YIELD RANGE AND THE MAP WITH ALPHABETIC CODE) HATCHING INDICATE Channel Bar No Well Observed 400-500 LPM Excellant with high recharge potential. CB111 Recharge structures not required. Alluvium Groundwater prospects very high Meander Scar 200-250 LPM (Sand Dominant) with high recharge potential. Recharge structures not required. Areas with high Arsenic and Iron Flood Plain (As&Fe) |FP111| No Well Observed >800 LPM concentration.Potable water [At shallow available at depth range above 150m Backswamp Areas of low groundwater potential. No Well Observed 40-50 LPM 60-70 m (Clay Dominant) Better potential at greater depths. Areas of very high groundwater **Abandoned Channel** 10-15 m | 250-300 LPM | (Sand,Silt & Clay) No Well Observed Nil Not Required potential at shallow depth.Most suitable for extraction of groundwate Areas with high Arsenic and Iron Alluvial Plain Younger (As&Fe) 500-600 LPM (Sand and Silt) concentration.Potable water 63 [At shallow available at depth range above 150m. F____F/____/ ____ These are fault / fracture zones, which generally act as conduits for movement of ground water in hard rocks. Along these zones, the yields are significantly higher and wells are likely to be sustainable for longer duration. However, the inferred fractures need to be confirmed by detailed ground surveys. These are dykes, quartz reefs and pegmatite veins, which generally act as barriers for ground water movement.



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.