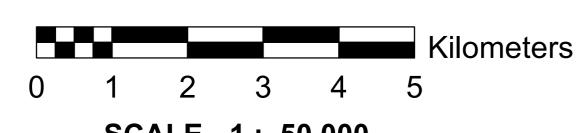
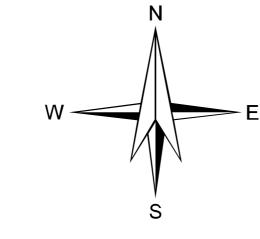
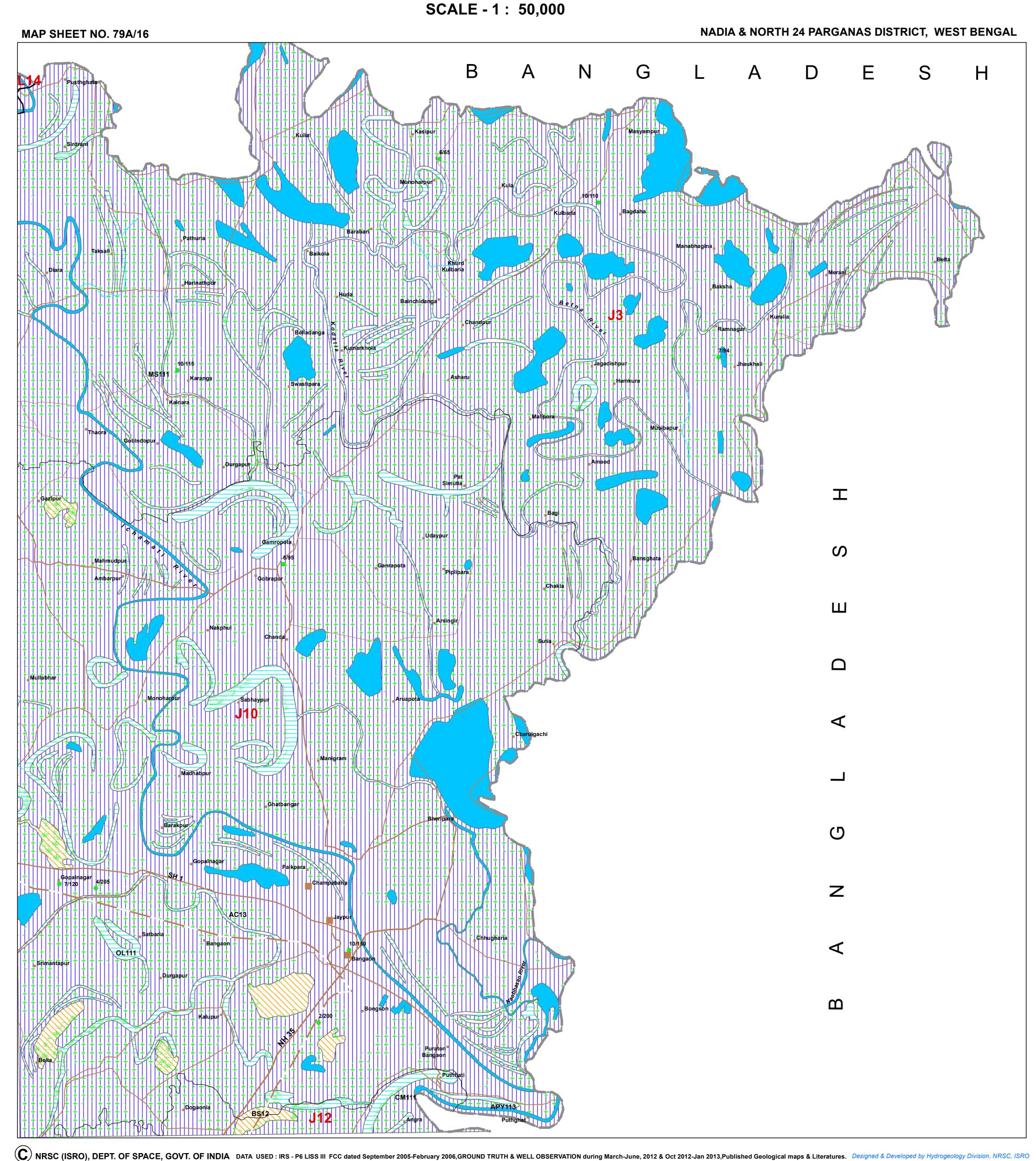
GROUND WATER PROSPECTS MAP

(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)







LEGEND

MAP UNIT	GEOL	DGICAL SEQUENCE /	GEOMORPHIC	DEPTH TO WATER LEVEL PRE / POST- MONSOON (AVERAGE IN METERS) NO. OF WELLS OBSERVED	RECHARGE	CROUND WATER PROSPECTS							RECHARGE	<u></u>
(HYDROGEOMORPHIC UNIT) REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE (COLOUR INDICATES YIELD RANGE AND HATCHING INDICATE DEPTH RANGE)	(R 1	EPRESENTED IN THE MAP WITH UMERIC CODE)	UNIT / LANDFORM (REPRESENTED IN THE MAP WITH ALPHABETIC CODE)		CONDITIONS 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 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)	STRUCTURES 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	REMARKS (PROBLEMS/LIMITATIONS)
OL111	day Deposits		Ox-bow Lake (OL)	No well observed	Very Good	LS	TW	10-15 m	200-300 LPM	Very High	P	Nil	Not Required	Groundwater available at greater depth below the surface water
CM111	athi Formation/Present (Present Day)	Alluvium (Sand Dominant) (111)	Cut-off Meander (CM)	No well observed	Very Good	LS	RW TW	10-15 m	200-300 LPM	Very High	P	0.36	Not Required	Groundwater prospects very high with high recharge potential. Recharge structures not required.
Model	Hugli/Bhagira		Meander Scar (MS)	No well observed	Good	LS	RW TW	10-15 m	200-250 LPM	High	P	Nil	Not Required	Groundwater prospects very high with high recharge potential. Recharge structures not required.
B\$12	Katwa/Kandi tion	Alluvium (Clay Dominant) (12)	Backswamp (BS)	No well observed	Poor	LS	TW	60-70 m	40-50 LPM	Low	P	Nil	Not Required	Areas of low groundwater potential. Better potential at greater depths.
AC13	b a g h / C h i n s u r a / ıri/Ganga-Koshi Forma Early to Late Holocene)	Alluvium (Sand,Silt & Clay) (13)	Abandoned Channel (AC)	No well observed	Very Good	LS	RW TW	10-15 m	250-300 LPM	Very High	Р	0.43	Not Required	Areas of very high groundwater potential at shallow depth.Most suitable for extraction of groundwate
APY113	Panskura/Aram Malda/Jalpaigu (1	Alluvium (Sand and Silt) (113)	Alluvial Plain Younger (APY)	9/6	Good	LS	TW	100-120 m	500-600 LPM	High	NP (As & Fe) [At shallow depth]	97	Not Required	Areas with high Arsenic and Iron concentration.Potable water available at depth range above 100 m.
F// —- D /QQ /								er and wells are likely	to be sustainable fo	r longer duration. Ho	wever, the inferred frac	tures need to be con	firmed by detailed ground surveys.	
			, quartz reefs and pegma											
	N.BThe	depth range and yield range of Locations of the recharg	of wells may vary within t ge structures shown in th	he unit because of certai e map are tentative. This	n inhomogeneities. map is useful for n	Fractures/Lineaments wharrowing down the target	nich are clearly observed / infe zones,and exact location on the	rred from the satelli he ground for wells	te image are indic and recharge stru	ated on the map. T ctures should be i	here could be some dentified based on fo	obscured fracture bllow-up ground hy	s which also influence the grou /drogeological/geophysical sur	nd water prospects. veys.

