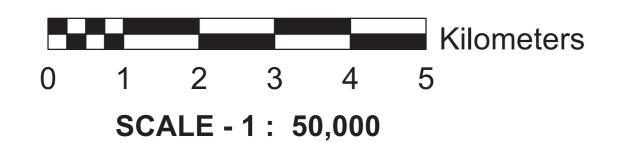
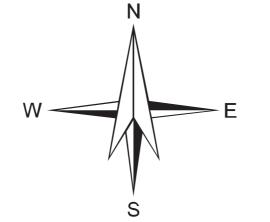
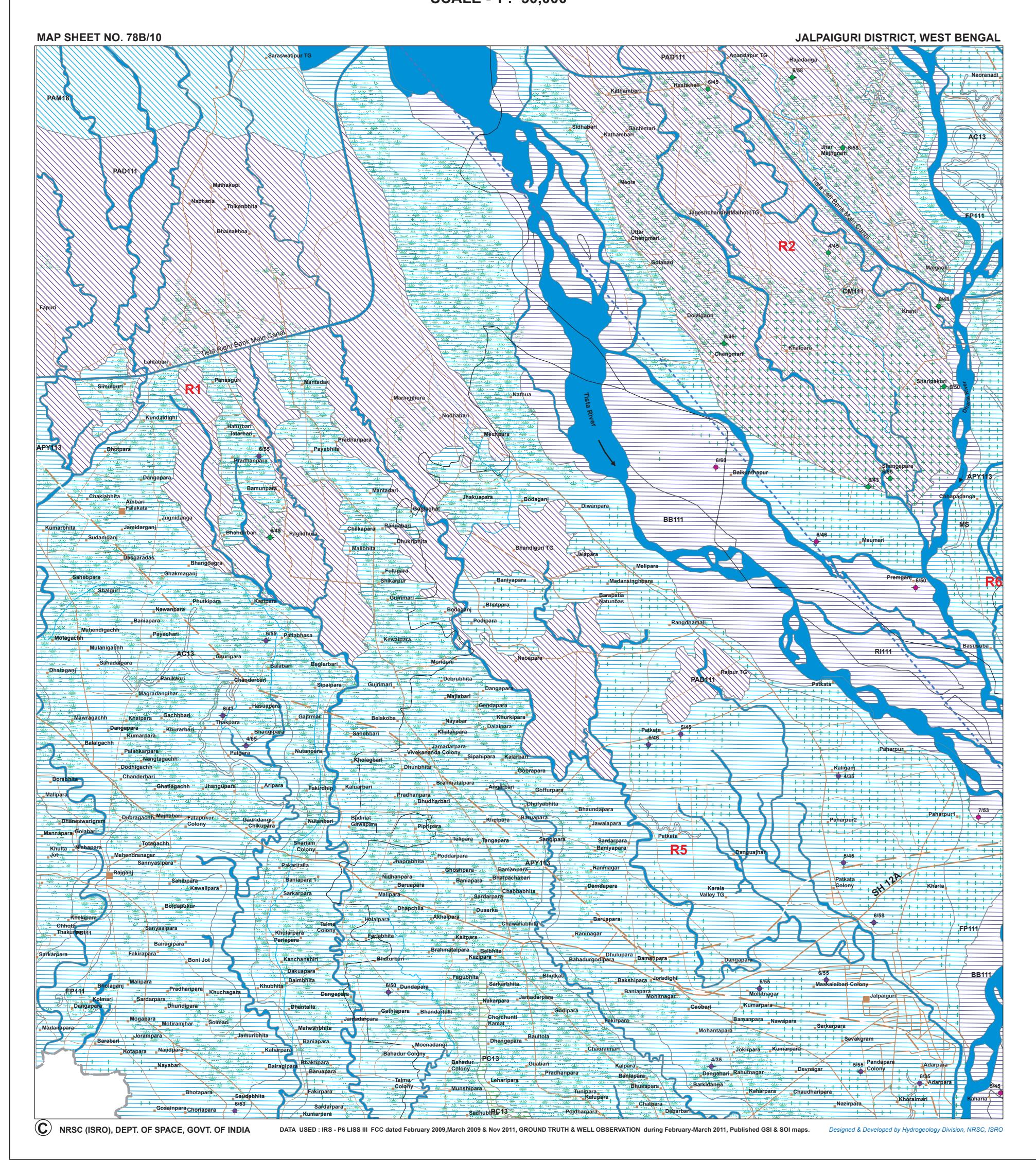
GROUND WATER PROSPECTS MAP

(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)







L E G E N D

MAP UNIT	GEOLOGICAL SEQUENCE / ROCK TYPE												REMARKS
(HYDROGEOMORPHIC UNIT) REPRESENTED IN			PRE / POST- MONSOON (AVERAGE IN METERS)	BASED ON AVAILABILITY OF WATER	AQUIFER MATERIAL	TYPE OF WELLS SUITABLE	DEPTH RANGE OF WELLS	YIELD RANGE OF WELLS	HOMOGENEITY IN THE UNIT	QUALITY OF WATER	GROUND WATER	SUITABLE & PRIORITY	(PROBLEMS / LIMITATIONS)
THE MAP WITH ALPHANUMERIC CODE	(REPRESENTED IN	(REPRESENTED IN	NO. OF WELLS OBSERVED	(RAINFALL & OTHER SOURCES)	LS = LOOSE SEDIMENTS PR = PERMEABLE ROCK	DW = DUG WELL RW = RING WELL	(SUGGESTED)	(EXPECTED) (in LPM or m³/day)	& SUCCESS RATE OF WELLS (PROBABILITY)	POTABLE (P) NON - POTABLE (NP)	IRRIGATED AREA	PT = PERCOLATION TANK CD = CHECK DAM NB = NALA BUND RW = RECHARGE WELL DT = DESILTING OF TANK	
(COLOUR INDICATES YIELD RANGE AND HATCHING INDICATE	THE MAP WITH NUMERIC CODE)	THE MAP WITH ALPHABETIC CODE)	OBSERVED	,	FIR = FISSURED ROCK FR = FRACTURED ROCK WR /= WEATHERED ROCK / WM WEATHERED MATERIAL	RW = RING WELL BW = BORE WELL TW = TUBE WELL DBW /= DUG CUM-BORE WELL / DTW DUG CUM-TUBE WELL	(IN METERS)	(iii 2i iii oi iii / day)	VERY HIGH HIGH MODERATE	(INDICATE REASONS IF NON POTABLE)	(APPROX . RANGE IN PERCENTAGE)	DI = DESILING OF IANK RP = RECHARGE PIT SD = SUBSURFACE DYKE RS = RECHARGE SHAFT ST = STORAGE TANK	
DEPTH RANGE)					IR = IMPERIVIOUS ROCK	DIW DOG COM-TODE WEEE			LOW			SCM = SOIL CONSERVATION MEASURES	
			7 / 5										Groundwater prospects very high
BB111		Braid Bar (BB)	2	Excellent	LS	TW	5-10 m	400-500 LPM	Very High	Р	Nil	Not Required	with high recharge potential. Recharge structures not required.
PB111	÷ ω	Point Bar	No Well Observed	Very Good	LS	RW	5.40	300-400 LPM	Very High	P	Nii	Not Required	Groundwater prospects very high with high recharge potential.
PBIII	0 0	(PB)	No from observed	very Good	Lo	TW	5-10 m	300-400 LPW	very might		Nil	Not required	Recharge structures not required.
	о О												
CM111	D a y	Cut- off Meander	No Well Observed	Good	LS	T14/	40.00			P	Nil	Not Required	Highly productive shallow aquifers with
	a y)	(CM)	No Well Observed	Good	23	TW	10-20 m	300-400 LPM	High	·	IVIII	not noquilou	good recharge from the river base flow.
	β Alluvium (Sand Dominant)												
	[a o (111)		7/5										
RI111	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	River Island (RI)	2	Very Good	LS	TW	5-10 m	400-500 LPM	High	Р	Nil	Not Required	Highly productive aquifer in shallow depth.Good recharge
	a (D t												
	0												
MS111		Meander Scar (MS)	No Well Observed	Very Good	LS	TW	10-15 m	200-250 LPM	High	P	Nil	Not Required	Highly productive shallow aquifers
	8 5	()											with good recharge.
	h a l												
FP111	ω 	Flood Plain (FP)	7/5	Very Good	LS	TW	<30m	250-350 LPM	Very High	Р	Nil	Not Required	Receives good recharge and forms shallow aquifer.Overall quality of the water is potable.
		Piedmont Alluvium Deep	7/4							_		Not Book to d	Good ground water prospect
PADITA		(PAD)	9	Good	LS	TW	60-80 m	400-500 LPM	Moderate	P	35	Not Required	at greater depth as the principal aquifer occurs below PAM.
	5 0												
APY113	Alluvium (Sand and Silt) (113)	Alluvial Plain Younger	7/4	Good			05.00	000 050 1 514	Llinh	D	30	Not Dogwins d	Highly productive aquifer at
70.110	(113)	(APY)	15		LS	TW	25-30 m	200-250 LPM	High	,	00	Not Required	shallow depth with good recharge.
	H o H												
AC13	a danga dang	Abandoned Channel	No Well Observed	Excellent to	LS	TW	10-15 m	250-300 LPM	Very High	P	Nil	Not Required	Highly productive shallow aquifers
	Sand,Silt & Clay) (13)	(AC)		Very Good									with good recharge from base flow.
•	l 												
PC13	Malda/Jalpa (Early	Palaeo-channel (PC)	No Well Observed	Very Good	LS	TW	15-20 m	150-200 LPM	Very High	Р	Nil	Not Required	Highly productive shallow aquifers with good recharge.
	Er. Holocene)												
RAM18	Alluvium	Piedmont Alluvium Moderate	No Well Observed	Good	LS	TW	40-60 m	300-400 LPM	Moderate	P	Nil	Not Required	Good ground water prospect at
	Gravel Dominant) (18)	(PAM)		3000				OSO-TOU LE IVI		·	INII	, , , , , , , , , , , , , , , , , , , ,	greater depth along piedmont slope.
	CLT.Pie												
FF// —	— – These are fa	ult / fracture zones, which ge	enerally act as conduits for m	ovement of ground water in	hard rocks. Along these zones	s, the yields are significant	ly higher and wells are	e likely to be sustaina	ble for longer duratio	n. However, the inferre	ed fractures need to be o	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.

