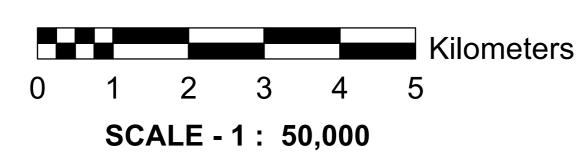
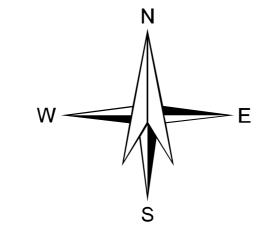
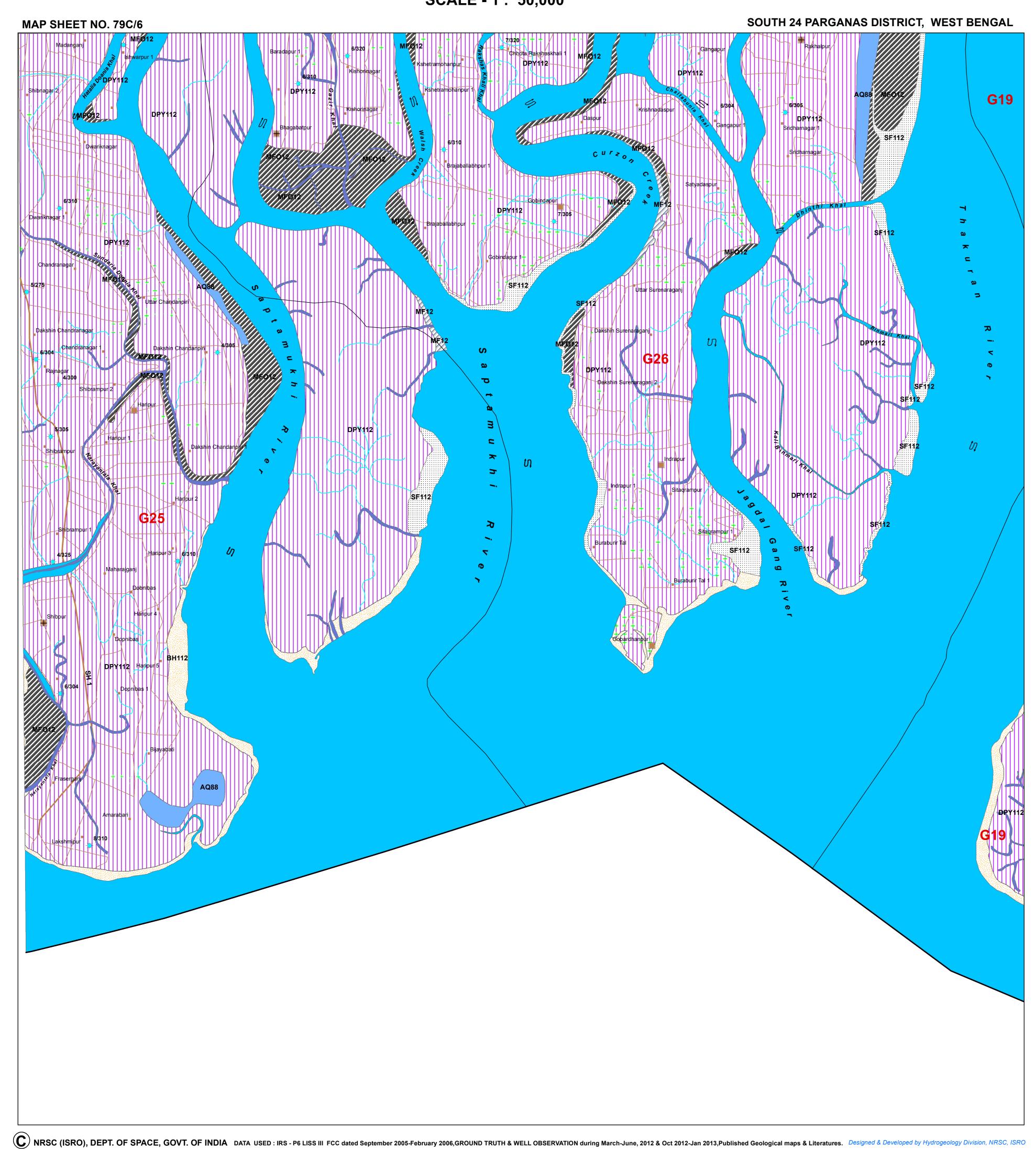
GROUND WATER PROSPECTS MAP

(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)







L E G E N D

MAP UNIT (HYDROGEOMORPHIC UNIT) REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE (COLOUR INDICATES YIELD RANGE AND HATCHING INDICATE DEPTH RANGE)	GEOLOGICAL SEQUENCE / ROCK TYPE (REPRESENTED IN THE MAP WITH NUMERIC CODE) (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)	FIR = FISSURED ROCK	GRO 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 m³/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)	RECHARGE 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)	
DPY112	Active Estuarine Deposits (Present Day)	Alluvium (Sand and Silt) (112)	Deltaic Plain Younger (DPY)	7/4 18	Good	LS	TW	>250 m	>800 LPM	High	NP (Salinity at shallow depth)	3	Not required	Areas affected by salinity. Fresh water available at depth ranges >250m
FF// — DD /QQ DD /QQ	/ <u>P</u>	P _P These are	e dykes, quartz reefs and	pegmatite veins, which g	generally act as barriers	for ground water movemen	nt. Aqua	Culture (AQ88),	Sand Flat (SF1	12), Mud Flat O	lder (MFO12 & Be	each (BH112)) ard	e not used for groundwater e ures which also influence the grou	xploitation.

GROUND WATER PROSPECTS INFORMATION			MATION	HYDROLOGICAL INFOR	STRUCTURAL INFORMATION			BASE MA	AP INFORMATION	LOCATION INFORMATION				
YIELD	COLOUR	DEPTH	RANGE OF V	VELLS	DESCRIPTION	SYMBOL	DIPS	BEDDING	SCHISTOSITY/ FOLIATION	SYMBOL	DESCRIPTION	STATE INDEX	DISTRICT INDE	EX
RANGE OF WELLS	CODE	SHALLOW < 30 METERS	MODERATE 30 - 80 METERS	DEEP > 80 METERS	CANAL / TANK IRRIGATED AREA	le	GENTLE (<15)	/	A	NH - 2	NATIONAL HIGHWAY		A-BIRBHUM B-BARDDHAMAN	`
		- SO METERS	50 - 50 METERS	7 00 METERO	GROUND WATER IRRIGATED AREA	+++	MODERATE (15 - 45	5)	Á				C-PURULIYA D-BANKURA N E-PASCHIM MEDINIPUR	N N
> 800 LPM	VIOLET				RIVER / STREAM (with sand)		STEEP (45 - 80)	*	Á	SH - 9	STATE HIGHWAY		F-PURBA MEDINIPUR G-S24 PARGANAS	<u></u>
					WATER BODY / SPRING	_	SUB - VERTICAL TO VERTICAL (> 8	0) ×	X		METALLED ROAD		H-HOWRAH I- KOLKATA J-N24 PARGANAS	M
400 - 800 LPM	INDIGO				CANAL	1111111111	ANTICLINE / ANTIFO	DRM	← ←		OTUER ROAD	INDIA	The state of the s	-Es
					RAIN GUAGE STATION (With average annual rainfall in mm)	800					OTHER ROAD		C D B	را ولير
200 - 400 LPM BLUE	BLUE				RECHARGE STRUCTURES SI	SYNCLINE / SYNFORM ←			RAILWAY		₩EST	The state of the s	K	
					I I NALA BUND I I	CK DAM						BENGAL	E CAH	
00 - 200 LPM	GREEN				DESILTING OF TANK O	HARGE PIT	TREND LINE				CITY / VILLAGE		K-HUGLI F L-NADIA M-MURSHIDABAD	G
00 - 200 E1 III	OKELN				SOIL CONSERVATION	HARGE SHAFT A	ESCARPMENT	*	THE				N-MALDAH	
	VELLOW				WELLS OBSERVED DURING FIELD V	risit	LITUOLOGY / CEOMO	ADDITIC LINIT	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	 	IABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		1	
50 - 100 LPM	TELLOW				YIELD RANGE BORE / YIELD RANG IN LPM TUBE WELL IN m³/ day	RING WELL	LITHOLOGY / GEOMO BOUNDARY	RPHIC UNIT	/ \	, _	(3,	BLOCK INDEX	MADQUEET ING	DEV
20 FO LDM OD					> 800 LPM - 15/70 > 400 m ³ /		FAULT	MINOR	MAJOR F		BOUNDARY:	BEOCK INDEX	MAPSHEET INDEX	
30 - 50 LPM	ORANGE				400 - 800 LPM	-	THRUST	т т	Т		INTERNATIONAL	(219	79C01 79C05 7	79009
					100 - 200 LPM - 15/70 50 - 100 m ³ / ₂	<u> </u>	FRACTURE / LINEAMENT				STATE		70001	0000
20 - 30 LPM	BROWN				50 - 100 LPM • 15/70 25 - 50 m ³ /0	day <u> </u>	FRACTURE / LINEAMENT				DISTRICT BLOCK	G26	79C02 79C06 7	79C10
					30 - 50 LPM - 15/70 15 - 25 m ³ /0	day <u>8</u> /15	(Inferred)					G25	70002	0010
10 - 20 LPM	PINK				20 - 30 LPM + 15/70 10 - 15 m ³ / d	day • 8/15	SHEAR ZONE	(Confirmed / Inferred)	S S/S S	отн	ER INFORMATION		79C03 73C07 7	70C11
rospects					10 - 20 LPM	lay8/15	DYKE	(Confirmed / Inferred)	D/DD			G19	19003 13001 1	79011
mited to valley ortions only					<10 LPM • 15/70 < 5 m ³ / d	- 7	QUARTZ REEF	(Confirmed / Inferred)	Q—————————————————————————————————————	Rainf	all: 1876 mm			
Hills, Plateaus tc.)	RED			шшшш	Colour inside well symbol indicates yield range. I hand side of well indicate the depth to water level			(00	D D D D			G19-KULTALI		
un-off zone/ arrier for	İ		(lacellessa / Dist	(Bules sto)	DUG - CUM- BORE WELL	HAND PUMP WELL	PEGMATITIE VEIN	(Confirmed / Inferred)	P—————————————————————————————————————	(So	ource IMD)	G25-NAMKHANA G26-PATHARPRATIMA		
.W. movement			(Inselberg / Ridg	ge / Dyke etc.)	ARTESIAN WELL	OBSERVATION WELL OF G.W DEPT. / C.G.W.B.	Lithologic contacts a are gradational	re inferred at places & G	eomorphic boundaries					
	PR	REPARED	ВҮ		TECHNICAL GUIDANCE & QU	ALITY CHECK	PARTIC	IPATING ORGANIZ	ATIONS	METHODOLOG	Y & PROJECT EXECUTION	SPONSO	RED BY	
GEOINF	ORMATIC	S & REM	OTE SENSI	NG CELL	इसरो डिंग्ज					इसरो ंडाव		RAJIV GANDHI NATIONAL I		MISSI
B. STATE COUNCIL OF SCIENCE AND TECHNOLOGY DEPARTMENT OF SCIENCE AND TECHNOLOGY NATIONAL REMOTE SENSING CI			INC CENTRE	SURVEY OF INDIA			NATIONAL DEM	OTE SENSING CENTRE	(PHASE IV)					
					GEOLOGICAL SURVEY OF INDIA PHED, GOVT. OF WEST BENGAL					DEPARTMENT OF DRINKING WATER SUPPLY (DDWS MINISTRY OF DRINKING WATER & SANITATION				
			SH BHAVAN		INDIAN SPACE RESEARCH ORG	,	STATE WATER INV				SEARCH ORGANISATION (ISRO) SPACE, GOVT. OF INDIA	MINISTRY OF DRINKING GOVERNMEN		11 ION
SALT LAKE, KOLKATA 700 091				BALANAGAR, HYDERAB	P.S.MAPS (LAND RECORD), GOVT OF WEST BENGAL				R, HYDERABAD - 500 625	NEW				