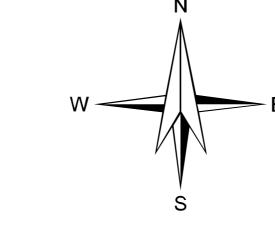
GROUND WATER PROSPECTS MAP

(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)



0 1 2 3 4 5

SCALE - 1: 50,000 NORTH 24 PARGANAS DISTRICT, WEST BENGAL MAP SHEET NO. 79F/3

NRSC (ISRO), DEPT. OF SPACE, GOVT. OF INDIA DATA USED: IRS - P6 LISS III FCC dated September 2005-February 2006, GROUND TRUTH & WELL OBSERVATION during March-June, 2012 & Oct 2012-Jan 2013, Published Geological maps & Literatures. Designed & Developed by Hydrogeology Division, NRSC, ISRO

LEGEND

	MAP UNIT	GEOLOGICAL SEQUENC	E / GEOMORPHIC UNIT / LANDFORM	DEPTH TO WATER LEVEL	RECHARGE CONDITIONS	GROUND WATER PROSPECTS							RECHARGE STRUCTURES	
The state of the	REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE (COLOUR INDICATES YIELD RANGE AND	(REPRESENTED IN THE MAP WITH	THE MAP WITH	(AVERAGE IN METERS) NO. OF WELLS	AVAILABILITY OF WATER (RAINFALL & OTHER	LS = LOOSE SEDIMENTS PR = PERMEABLE ROCK FIR = FISSURED ROCK FR = FRACTURED ROCK	SUITABLE DW = DUG WELL RW = RING WELL BW = BORE WELL TW = TUBE WELL	OF WELLS (SUGGESTED) MIN - MAX (IN METERS)	OF WELLS	IN THE UNIT & SUCCESS RATE OF WELLS (PROBABILITY) VERY HIGH	WATER POTABLE (P) NON - POTABLE (NP) (INDICATE REASONS IF	WATER IRRIGATED AREA (APPROX. RANGE	PT = PERCOLATION TANK CD = CHECK DAM NB = NALA BUND RW = RECHARGE WELL DT = DESILTING OF TANK RP = RECHARGE PIT SD = SUBSURFACE DYKE	
	DEPTH RANGE)	Active Estuarine Deposits (Present Day) (Bresent Day) (Title Stuarine Deposits (Present Day)	Deltaic Plain Youngel (DPY)	No Well Observed	Good	WM WEATHERED MATERIAL IR = IMPERIVIOUS ROCK	DTW DUG CUM-TUBE WELL		>800 LPM	MODERATE	(Salinity at	4	ST = STORAGE TANK SCM = SOIL CONSERVATION MEASURES	Areas affected by salinity. Fresh w

LOUR ODE SHALLOW <30 METERS	RANGE OF WELLS						P INFORMATION	LOCATION INFORMATION		
ODE SHALLOW		DESCRIPTION SYMBOL	DIPS BEDDING SCHISTOSITY/ FOLIATION			SYMBOL	DESCRIPTION	STATE INDEX DISTRICT INDEX		
	MODERATE DEEP 30 - 80 METERS > 80 METERS	CANAL / TANK IRRIGATED AREA	GENTLE (<15)	/	A	NH - 2	NATIONAL HIGHWAY		A-BIRBHUM B-BARDDHAMAN C-PURULIYA	
OLET		RIVER / STREAM (with sand)	MODERATE (15 - 45) STEEP (45 - 80)	<i>*</i>	A	SH - 9	STATE HIGHWAY	S	D-BANKURA N E-PASCHIM MEDINIPUR F-PURBA MEDINIPUR	
		WATER BODY / SPRING	SUB - VERTICAL TO VERTICAL (> 80)	SUB - VERTICAL 🗸			METALLED ROAD		G-S24 PARGANAS H-HOWRAH I- KOLKATA J-N24 PARGANAS	
NDIGO		CANAL RAIN GUAGE STATION \$\delta 800	ANTICLINE / ANTIFORM		←		OTHER ROAD	INDIA	C B B L	
LUE		RECHARGE STRUCTURES SUGGESTED	SYNCLINE / SYNFORM		←		RAILWAY	WEST	K HA	
		NALA BUND RECHARGE WELL DESILTING OF TANK	TREND LINE				CITY / VILLAGE	BENGAL	K-HUGLI L-NADIA M-MURSHIDABAD	
REEN		SUBSURFACE DYKE IIIIIII RECHARGE SHAFT A	ESCARPMENT	7	Maria				N-MALDAH	
LLOW		WELLS OBSERVED DURING FIELD VISIT YIELD RANGE BORE / YIELD RANGE DUG WELL /	LITHOLOGY / GEOMORPH BOUNDARY	HIC UNIT		• / • • •	PARTIALLY COVERED (PC)			
		> 800 LPM	FAULT	MINOR F	<i>MAJOR</i> F		BOUNDARY:	BLOCK INDEX	MAPSHEET INDEX	
RANGE		200 - 400 LPM	THRUST	TT	ТТ		INTERNATIONAL STATE	J17	79B14 79F02 79F06	
ROWN		100 - 200 LPM	FRACTURE / LINEAMENT				DISTRICT			
		30 - 50 LPM	FRACTURE / LINEAMENT (Inferred)				BLOCK		79B15 79F03 79F07	
PINK		20 - 30 LPM		confirmed / Inferred)	\$/\$ \$	ОТНЕ	ER INFORMATION	J17		
		10 - 20 LPM	DYKE (Co	confirmed / Inferred)		Rainfa	all : 1624 mm	J17/	79B16 79F04 79F08	
RED		Colour inside well symbol indicates yield range. The figures on the top right hand side of well indicate the depth to water level and depth of well in meters	QUARTZ REEF (Co	confirmed / Inferred)				117-HINGAL GAN I		
	(Inselberg / Ridge / Dyke etc.)	DUG - CUM- BORE WELL HAND PUMP WELL ARTESIAN WELL OBSERVATION WELL OF	(Commied / Mierred)			(Source IMD)				
		G.W DEPT. / C.G.W.B.	are gradational	· · · · · · · · · · · · · · · · · · ·	· l					
		TECHNICAL GUIDANCE & QUALITY CHECK	SURVEY OF INDIA GEOLOGICAL SURVEY OF INDIA PHED, GOVT. OF WEST BENGAL STATE WATER INVESTIGATION DIRECTORATE, GOWB				& PROJECT EXECUTION	SPONSORED BY RAJIV GANDHI NATIONAL DRINKING WATER MISSI		
UNCIL OF SCIE	NCE AND TECHNOLOGY	इसर्ग डिन्ट					TE SENSING CENTRE	(PHASE IV) DEPARTMENT OF DRINKING WATER SUPPLY (DDINKING WATER & SANITATION GOVERNMENT OF INDIA		
H FLOOR, BIKA	SH BHAVAN	DEPT. OF SPACE, GOVT. OF INDIA				DEPT. OF S	PACE, GOVT. OF INDIA			
MUUN'S EFH	PREPARED ATICS & REM NCIL OF SCIENCE RNMENT OF W FLOOR, BIKA	E	RAIN GUAGE STATION (With average annual rainfall in mm) RECHARGE STATUCTURES SUGGESTED PERCOLATION TANK NALA BUND DESILTING OF TANK SUBSURFACE DYKE SUBSURFACE DYKE WELLS OBSERVED DUBING FELD VISIT NIELD RANGE NECHARGE SHAFT SOIL CONSERVATION WELL ONSERVATION WELL ONSERVATION WELL ONSERVATION WELL ON MEASURES WELLS OBSERVED DUBING FELD VISIT VIELD RANGE NIELD RAN	RAIN GUAGE STATION (With average annual reinfall in mm) E PERCOLATION TANK ANA BUND DESILITING OF TANK SUBSUPRACE DVIE IIIIIII SOIL CONSERVATION MEASURES WELL SOSERVET DUMPO FELD YEAR TECHNICAL SEMBLE FELD YEAR TRECHARGE PIT RECHARGE WELL FECHARGE PIT RECHARGE WELL FECHARGE PIT RECHARGE WELL FECHARGE PIT RECHARGE WELL FECHARGE PIT THENT THENT THENT THO	RANT QUAGE STATION (With precising annual planted in minus) RECHARGE STRUCTURES SUGGESTED PERCOLATION TANK NALA BUND DESILTING OF TANK SUBSURFACE DYNE NELLA SOBSERVATION NECHARGE WELL MELLA SOBSERVATION MINUS SUBSURFACE DYNE NUMBER WELL NUMBER STATION NOR SUBSURFACE DYNE NUMBER STRUCTURES SUGGESTED PERCOLATION TANK SUBSURFACE DYNE NUMBER SUBSURFACE	RANI GLAGE STATION RECHARGE STRUCTURES SUGGESTED PERCOLATION TANN ALA GRINNO DESILTING OF TANK OBSERVANCE OF THE PERCOLATION TANN ALA GRINNO DESILTING OF TANK OBSERVANCE OF THE STRUCTURES SUGGESTED PERCOLATION TANK OBSERVATION OBSE	RANG QUAGE STRUCTURES SUGGESTED PERCOLATION TANK PECHARGE STRUCTURES SUGGESTED PERCOLATION TANK NALA BUND DESILITION OF TANK NALA BUND DESILITION DESILITION DIRECTORATE, GOWB DESILITION DESILITION OF TANK NALA BUND DESILITION DESILITION DIRECTORATE, GOWB DESILITION DES	RECHARGE STRUCTURES SUGGESTED RECHARGE STRUCTURES SUGGESTED	ANTICIAME ANTICIAME RECHARGE STRUCTURES BUOGESTED RECHARGE S	