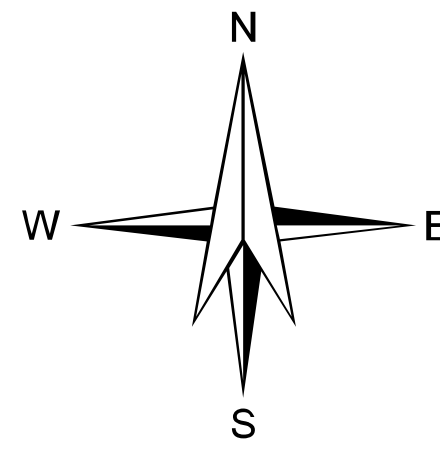
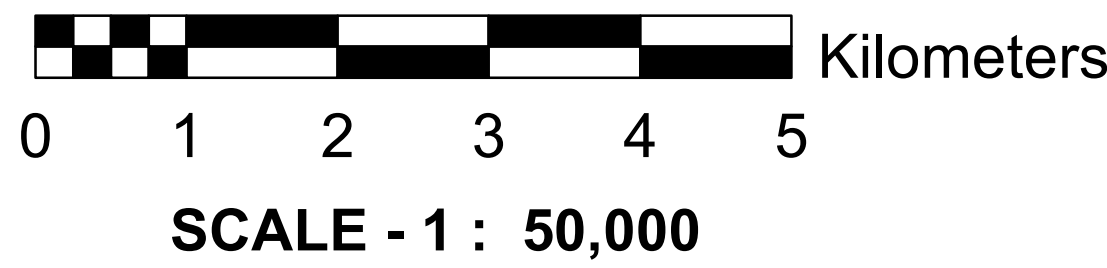


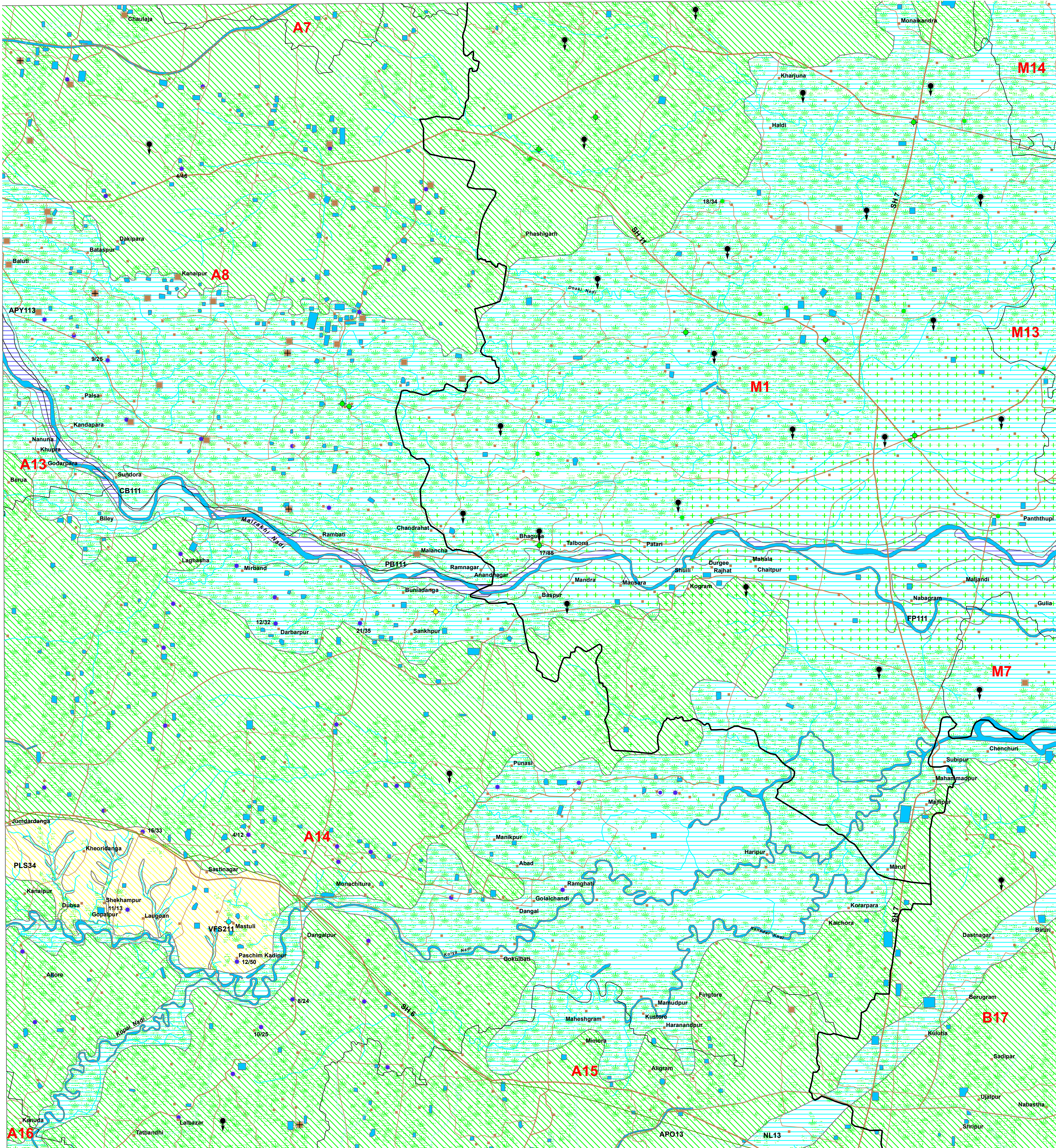
GROUND WATER PROSPECTS MAP

(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)



MAP SHEET NO. 73M/13

BIRBHUM, BARDDHAMAN & MURSHIDABAD DISTRICTS, WEST BENGAL



LEGEND

MAP UNIT (HYDROGEO MORPHIC 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)	GEOMORPHIC UNIT / LANDFORM (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)	GROUND WATER PROSPECTS							RECHARGE STRUCTURES SUITABLE & PRIORITY	REMARKS (PROBLEMS / LIMITATIONS)
					AQUIFER MATERIAL	TYPE OF WELLS SUITABLE	DEPTH RANGE OF WELLS (SUGGESTED)	YIELD RANGE OF WELLS (EXPECTED)	HOMOGENEITY IN THE UNIT & SUCCESS RATE OF WELLS (PROBABILITY)	QUALITY OF WATER (POTABLE (P) NON-POTABLE (NP))	GROUND WATER IRRIGATED AREA (APPROX. RANGE IN PERCENTAGE)		
					LS → LOOSE SEDIMENTS FR → FRAMBLE ROCK PR → PRESSED ROCK PR → PRESSED ROCK VR → WEATHERED ROCK RM → WEATHERED MATERIAL RI → IMPERVIOUS ROCK	DN → COLD WELL RW → RISK WELL RP → RISK WELL RW → RISK WELL DNW → COLD CUM RISK WELL DNW → COLD CUM RISK WELL	MIN. MAX (IN METERS)	[IN LPM OF M ² / DAY]	VERY HIGH MODERATE MODERATE LOW	VERY HIGH MODERATE MODERATE LOW		PT → PERCOLATION TANK CD → CHECK DAM NS → NICKLE SINK DT → DRAINAGE TANK DP → DRAINAGE TANK DS	

GROUND WATER PROSPECTS INFORMATION				HYDROLOGICAL INFORMATION				STRUCTURAL INFORMATION				BASE MAP INFORMATION				LOCATION INFORMATION														
YIELD RANGE OF WELLS	COLOUR CODE	DEPTH RANGE OF WELLS		DESCRIPTION		SYMBOL		DIPS		BEDDING		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX										
		SHALLOW < 10 METERS	MODERATE 10-25 METERS	DEEP > 25 METERS	CANAL / TANK IRRIGATED AREA		GROUND WATER IRRIGATED AREA		RIVER / STREAM (with sand)		WATER BODY / SPRING		CANAL		RAIN GUAGE STATION (With average annual rainfall in mm)	1 600	ANTICLINE / ANTIFORM		TREND LINE		CITY / VILLAGE		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK
> 800 LPM	VIOLET				PERCOLATION TANK		CHECK DAM		GENITIVE (1-15)		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
400 - 800 LPM	INDIGO				NALA BUND		RECHARGE INT		MODERATE (15-45)		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
200 - 400 LPM	BLUE				DESISTING OF TANK		RECHARGE INT		STEEP (45-80)		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
100 - 200 LPM	GREEN				SUBSURFACE DYKE		RECHARGE INT		SUB-VERTICAL TO VERTICAL (1-85)		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
50 - 100 LPM	YELLOW				SOIL CONSERVATION MEASURES		RECHARGE SHAFT		ESCAPMENT		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
30 - 50 LPM	ORANGE				WELL		STORAGE TANK		LITHOLOGIC / GEOMORPHIC UNIT BOUNDARY		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
20 - 30 LPM	BROWN				WELL RANGE < 100 M		STORAGE TANK		FAULT		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
10 - 20 LPM	PINK				WELL RANGE 100-200 M		STORAGE TANK		THRUST		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 200-300 M		STORAGE TANK		FRACUTURE / LINEAMENT (Inferred)		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 300-400 M		STORAGE TANK		FRACUTURE / LINEAMENT (Confirmed)		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 400-500 M		STORAGE TANK		QUARTZ REEF		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 500-600 M		STORAGE TANK		PEGMATITE VEIN		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 600-700 M		STORAGE TANK		Lithologic contacts are inferred at places & Geomorphic boundaries are gradational		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 700-800 M		STORAGE TANK		Lithologic contacts are inferred at places & Geomorphic boundaries are gradational		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 800-900 M		STORAGE TANK		Lithologic contacts are inferred at places & Geomorphic boundaries are gradational		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 900-1000 M		STORAGE TANK		Lithologic contacts are inferred at places & Geomorphic boundaries are gradational		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 1000-1100 M		STORAGE TANK		Lithologic contacts are inferred at places & Geomorphic boundaries are gradational		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 1100-1200 M		STORAGE TANK		Lithologic contacts are inferred at places & Geomorphic boundaries are gradational		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 1200-1300 M		STORAGE TANK		Lithologic contacts are inferred at places & Geomorphic boundaries are gradational		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 1300-1400 M		STORAGE TANK		Lithologic contacts are inferred at places & Geomorphic boundaries are gradational		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 1400-1500 M		STORAGE TANK		Lithologic contacts are inferred at places & Geomorphic boundaries are gradational		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 1500-1600 M		STORAGE TANK		Lithologic contacts are inferred at places & Geomorphic boundaries are gradational		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 1600-1700 M		STORAGE TANK		Lithologic contacts are inferred at places & Geomorphic boundaries are gradational		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 1700-1800 M		STORAGE TANK		Lithologic contacts are inferred at places & Geomorphic boundaries are gradational		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 1800-1900 M		STORAGE TANK		Lithologic contacts are inferred at places & Geomorphic boundaries are gradational		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 1900-2000 M		STORAGE TANK		Lithologic contacts are inferred at places & Geomorphic boundaries are gradational		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 2000-2100 M		STORAGE TANK		Lithologic contacts are inferred at places & Geomorphic boundaries are gradational		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 2100-2200 M		STORAGE TANK		Lithologic contacts are inferred at places & Geomorphic boundaries are gradational		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 2200-2300 M		STORAGE TANK		Lithologic contacts are inferred at places & Geomorphic boundaries are gradational		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)	RED				WELL RANGE 2300-2400 M		STORAGE TANK		Lithologic contacts are inferred at places & Geomorphic boundaries are gradational		SCHISTOSITY/ FOLIATION		SYMBOL		DESCRIPTION		STATE INDEX		DISTRICT INDEX		HABITATIONS : NON - COVERED (NC) PARTIALLY COVERED (PC)		BOUNDARY :		INTERNATIONAL	STATE	DISTRICT	BLOCK	OTHER INFORMATION	Rainfall : 1431 mm (Source IMD)
Prospects related to water potential only (RP, P, NP, etc.)</																														