

		0=0.45==		RECHARGE	L E G E N D GROUND WATER PROSPECTS							DECHARGE	<u></u>
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)	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)	AQUIFER MATERIAL LS = LOOSE SEDIMENTS PR = PERMEABLE ROCK FIR = FISSURED ROCK FR = FRACTURED ROCK WR /= 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 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)
CM111	Shaugaon Formation/Present Day Deposits (Present Day) (Present Day) (1111) (1111) (1111) (1111)	Cut-off Meander (CM)	No Well Observed	Very Good	LS	RW TW	10-15 m	200-300 LPM	Very High	P	10	Not Required	Highly productive shallow aquifers with good recharge.
MS111		Meander Scar (MS)	No Well Observed	Very Good	LS	RW TW	10-15 m	300- 400 LPM	High	Р	90	Not Required	Highly productive shallow aquifers with good recharge.
FP111		Flood Plain (FP)	No Well Observed	Very Good	LS	TW	<30 m	250-350 LPM	Very High	Р	93	Not Required	Receives good recharge and forms shallow aquifer. Overall quality of the water is potable.
FP111			No Well Observed	Very Good	LS	TW	80-100 m	400- 600 LPM	Very High	NP (As & Fe) (at shallow depth)	55	Not Required	Areas with high concentration of Arsenic & Iron. Potable water availab at deeper depth.
APY113	y - Late Holocan Walpaiguri Formation (2018) (2018) (2018) (2018)	Alluvial Plain Younger (APY)	10 / 6 	Good	LS	TW	25-30 m	200-250 LPM	High	P	10	Not Required	Highly productive aquifer at shallow depth with good recharge.
APY113			7 / 6	Good	LS	TW	100-120 m	400-500 LPM	High	NP (As & Fe) (at shallow depth)	45	RW Moderate	Areas with high Arsenic & Iron conte Potable water available at deeper depth.Parts of the unit under "Semi-critical" catagory within Kaliad block, recharge structures suggested
AC13	Alluvium (Sand,Silt & Clay) (13)	Abandoned Channel (AC)	No Well Observed	Excellent to Very Good	LS	RW TW	10-30 m	250-300 LPM	Very High	P	Nil	Not Required	Highly productive shallow aquifers with good recharge from base flow.
APO19	Lt. Pleistocene Parind Formation (Caliche & Fe- Nodules Bearing) (19)	Alluvial Plain Older (APO)	No Well Observed	Moderate	LS	TW	50-60 m	75 - 100 LPM	Moderate	Р	5	Not Required	Shallow aquitards form due to clayed sediments. Aquifers occur at modara depth.
F// D /QQ D /QQ	— – These are fau	ult / fracture zones, which ge	nerally act as conduits for me	ovement of ground water in	hard rocks. Along these zone	es, the yields are significantly	y higher and wells ar	re likely to be sustaina	t ble for longer duratio	n. However, the inferred f	ractures need to be o	onfirmed by detailed ground surve	ł /s.

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 be identified based on follow-up ground hydrogeological/geophysical surveys.

