

LEGEND

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	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		
		(REPRESENTED IN THE MAP WITH ALPHABETIC CODE)			AQUIFER MATERIAL LS = LOOSE SEDIMENTS PR = PERMEABLE ROCK FIR = FISSURED ROCK FR = FRACTURED ROCK WR /= WEATHERED ROCK / WM 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 m ³ / 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)	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)
CB111	nt day Deposits	Channel Bar (CB)	No well observed	Excellant	LS	RW/TW	5-10 m	400-500 LPM	Very High	P	Nil	Not Required	Groundwater prospects very high with high recharge potential. Recharge structures not required.
PB111	Pose of the contraction of the c	Point Bar (PB)	No well observed	Very Good	LS	RW/TW	5-10 m	300 LPM	Very High	P	Nil	Not Required	Groundwater prospects very high with high recharge potential. Recharge structures not required.
FP111	Hugli/Bhagiratl	Flood Plain (FP)	No well observed	Very Good	LS	TW	<30 m	250-350 LPM	Very High	P	Nil	Not Required	Groundwater prospects very high with high recharge potential. Recharge structures not required.
B\$12	Holocene) Holocene) (Clay Dominant) (12)	Backswamp (BS)	<u>18 / 12</u> 1	Poor	LS	RW/TW	60-70 m	40-50 LPM	Low	Р	Nil	Not Required	Areas of low groundwater potential. Better potential at greater depths.
APY113	Manskura/Aramb (Early to Late (Sand and Silt) (113)	Alluvial Plain Younger (APY)	12 / 9	Good	LS	TW	25-30 m	200-250 LPM	High	P	33	Not Required	Potable water available at shallow depth.
AC13	mation Holocene)	Abandoned Channel (AC)	No well observed	Very Good	LS	RW/TW	10-15 m	250-300 LPM	Very High	P	Nil	Not Required	Areas of very high groundwater potential at shallow depth.Most suitable for extraction of groundwar
APO13	Alluvium (Sand,Silt & Clay) (13)	Alluvial Plain Older (APO)	7 / 5	Moderate to Good	LS	TW	40-60 m	150-200 LPM	Moderate to High	P	66	RW Moderate to Low	Moderate groundwater potential at intermediate depths.
	Sijua/ R (Late Pleis	Alluvial Plain Older (APO)	<u>14 / 10</u> 86	Moderate to Good	LS	TW	100-120 m	300-400 LPM	Moderate to High	NP (As&Fe) [At shallow depth]	1	RW Moderate to Low	Area affected by high Arsenic & Iro concentration. Potable water available at deeper depth.
VF\$211	(Middle to Upper Pleistocene) (Middle to Upper Pleistocene) (Eerricrete-Hard crust, lateritic nodules lithomarge clay) (211)	& Valley Fill Shallow (VFS)	No well observed	Moderate	LS underlain by WM+FR	TW/BW	50-60 m	75-100 LPM	Moderate	P	7	DT Moderate	Recharge structure will increase the sustainability of groundwater source.
PLW34	Rajmahal Trap Upper Jurassic to Cretaceous) ((34) (34)	lt Plateau Weathered (PLW)	No well observed	Poor	FR	TW/BW	40-60 m	30-50 LPM	Low	Р	7	RP High	Limited scope for groundwater development except along fracture zone.
F// ——	These are	fault / fracture zones, which ge	enerally act as conduits for m	ovement of ground water in	hard rocks. Along these zone	es, the yields are significant	ly higher and wells are	 e likely to be sustaina	ble for longer duration	n. However, the inferre	d fractures need to be c	confirmed by detailed ground surveys	
D /QQ /	P P These	are dykes, quartz reefs and	I pegmatite veins, which	generally act as barriers	for ground water movem	nent.							

