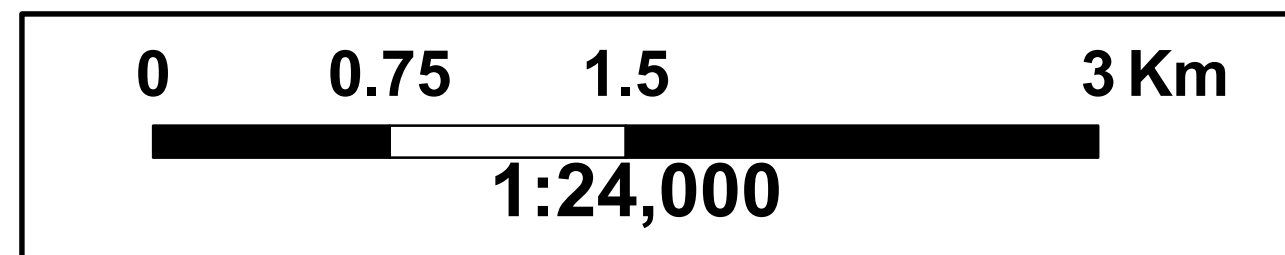


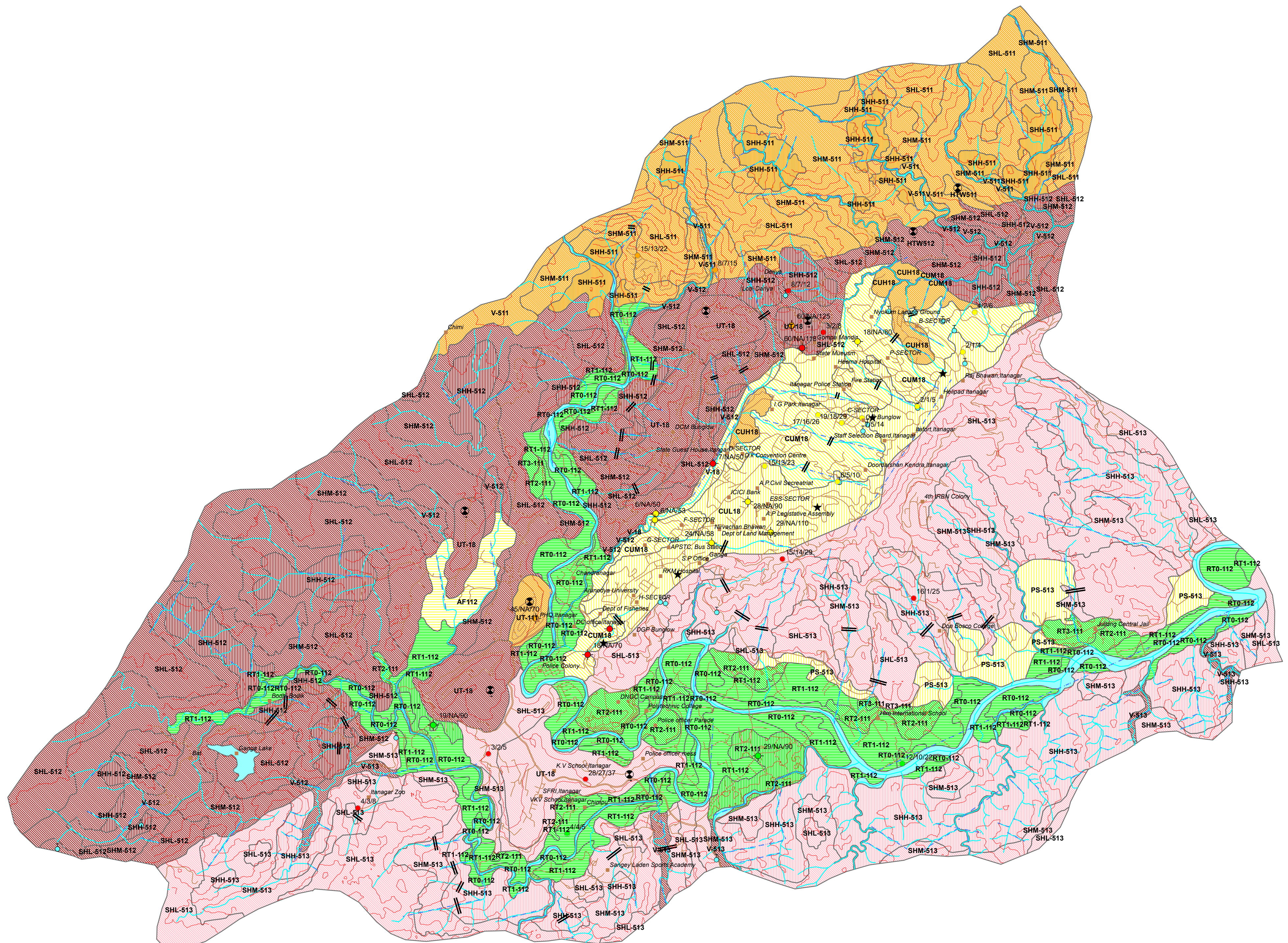
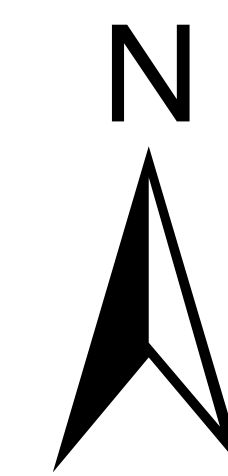
# GROUND WATER PROSPECTS MAP (10K)

(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH FIELD CHECKS)  
ITANAGAR TOWNSHIP



## LEGEND

ITANAGAR, PAPUM PARE DISTRICT, ARUNACHAL PRADESH



MAP UNIT (HYDROGEO MORPHIC UNIT REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE (COLOUR INDICATES GROUND WATER PROSPECTS))	GEOLOGICAL SEQUENCE / ROCK TYPE (REPRESENTED IN THE MAP WITH NUMERIC CODE)	GEOMORPHIC UNIT / LANDFORM (REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE)	DEPTH TO WATER LEVEL (NO. OF WELLS OBSERVED) PRE-MONSOON POST-MONSOON (AVERAGE IN METERS)	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)	STATUS OF AQUIFER HEALTH (PROBABILITY)	QUALITY OF WATER (POTABLE OR NOT - INDICATE REASONS IF NOT POTABLE)			GROUND WATER IRRIGATED AREA (APPROX. RANGE IN PERCENTAGE)
RT0-112	NEWER ALLUVIUM Sand, pebbles and boulders. Thin layers of silt and clay are also present. (112)	River Terrace 0 (RT0)	DW-1 (11.2,21)	Excellent	LS	RW	20-25	140-150	Excellent	P	Nil	—	Excellent recharge condition. Recharge structure not required. Ring wells suitable
RT1-112		River Terrace 1 (RT1)	DW-1 (4,4)	Very Good	LS	RW	5-10	140-150	Excellent	P	Nil	—	Very good recharge condition. Recharge structure not required. Ring wells suitable
RT1-112		River Terrace 1 (RT1)	BW-1 (18,NA,80)	Good	LS+PR	RW TW	10-15	80-90	Excellent	P	Nil	CB/CT	Good recharge condition. Contour bunding / Contour trenching will give better result
AF-112		Alluvial Fan (AF)	—	Good	LS	RW	10-15	50-60	Very Good	P	Nil	CB/CT	Good recharge condition. Contour bunding / Contour trenching will give better result
RT2-111	OLDER ALLUVIUM Sediments range in size from pebbles to sand, silt and clay, partly oxidised. (111)	River Terrace 2 (RT2)	—	Moderately Good	LS+PR	RW TW	15-20	120-130	Very Good	P	Nil	CB/CT	Good recharge from surrounding hills
RT2-111		River Terrace 2 (RT2)	BW-1 (14,NA,80)	Moderately Good	LS+PR	RW TW	15-20	120-130	Very Good	P	Nil	CB/CT	Good recharge from surrounding hills
RT3-111		River Terrace 3 (RT3)	—	Moderately Good	LS+PR	RW TW	15-20	100-120	Very Good	P	Nil	CB/CT	Good recharge from surrounding hills
RT3-111		River Terrace 3 (RT3)	BW-1 (15,NA,67)	Moderately Good	LS+PR	RW TW	15-20	100-120	Very Good	P	Nil	CB/CT	Good recharge from surrounding hills
UT-111		Uplifted Terrace (UT)	—	Moderately Good	LS+PR	RW TW	60-70	40-50	Good	P	Nil	CB/CT/FP	Upper aquifer depends on the thickness of terrace material. Farm pond with semi-leaky lining is suggested in this unit.
UT-111		Uplifted Terrace (UT)	BW-1 (4,NA,80)	Good	LS+PR	RW TW	15-20	50-60	Good	P	Nil	—	Good recharge from surrounding hills
UT-18	BOULDER CONGLOMERATE - CLAY BED Boulders, cobbles, pebbles mainly of granite gneisses in reddish clayey and sandy matrix, partly compacted (18)	Uplifted Terrace (UT)	—	Moderate	LS+PR	TW	75-80	20-30	Moderate	P	Nil	CB/CT/FP	Thickness of terrace material is very less in most of the areas except Mowbil area where terrace material is upto 30 mtr. Because of steep slope, good yield cannot be expected from underlying swalk rocks. Farm pond with semi-leaky lining is suggested in this unit.
UT-18		Uplifted Terrace (UT)	BW-1 (8,NA,116)	Moderate	LS+PR	TW	110-120	20-30	Moderate	P	Nil	CB/CT/FP	Thickness of terrace material is very less. Small amount of ground water can be expected from underlying swalk rocks. Farm pond with semi-leaky lining is suggested in this unit.
UT-18		Uplifted Terrace (UT)	BW-1 (26,34)	Moderate	LS+PR	TW	75-80	10-20	Moderate	P	Nil	CB/CT/FP	Thickness of terrace material is very less. Small amount of ground water can be expected from underlying swalk rocks. Farm pond with semi-leaky lining is suggested in this unit.
CUL-18		Cuesta Less Dissected (CUL)	DW-1, BW-3 (4,10) (4,NA,80)	Moderately Good	LS	RW TW	10-20	90-100	Good	P	Nil	GP,RP	Good thickness of terrace material. Boulder conglomerate makes good aquifer
CUM-18		Cuesta Mod Dissected (CUM)	—	Moderate	LS	RW TW	10-20	90-100	Good	P	Nil	GP,RP	Good thickness of terrace material. Boulder conglomerate makes good aquifer
CUM-18		Cuesta Mod Dissected (CUM)	DW-1, BW-3 (13,16,18) (21,NA,58)	Moderately Good	LS	RW TW	15-20	90-100	Good	P	Nil	GP,RP	Good thickness of terrace material. Boulder conglomerate makes good aquifer
CUH-18	Cuesta Highly Dissected (CUH)	—	Moderate	LS	TW	70-80	40-50	Good	P	Nil	GP,RP	Good thickness of terrace material. Boulder conglomerate makes good aquifer	
PS-513	UPPER SIWALK ROCKS Alternations of graded conglomerate and soft sandstone, silty clay and gravelly sands (513)	Piedmont Slope (PS)	—	Moderate	WR+PR	TW	80-90	50-60	Moderate	P	Nil	CB/CT	Colluvial material makes good aquifer
V-513		Valley (V)	—	Good	PR	RW TW	15-20	20-30	Moderate	P	Nil	—	Good recharge from surrounding hills
SHL-513		Structural Hills Less Dissected (SHL)	DW-1 (2,2)	Limited	WR+PR	TW	70-80	10-20	Moderate	P	Nil	CB/CT,GP	Mainly runoff zone. CB/CT & gully plugging will improve aquifer condition
SHM-513	MIDDLE SIWALK ROCKS Sandstone with silt stone (512)	Structural Hills Mod Dissected (SHM)	DW-1 (19,8,17)	Limited	WR+PR	TW	70-80	10-20	Moderate	P	Nil	CB/CT,GP	Mainly runoff zone. CB/CT & gully plugging will improve aquifer condition
SHH-513		Structural Hills Highly Dissected (SHH)	DW-1 (19,1,26)	Poor	WR+PR	TW	105-115	10-20	Moderate	P	Nil	CB/CT,GP	Mainly runoff zone. CB/CT & gully plugging will improve aquifer condition
V-512		Valley (V)	—	Good	PR	RW TW	15-20	20-30	Moderate	P	Nil	—	Good recharge from surrounding hills
HTW-512	LOWER SIWALK ROCKS Fine grained sandstone with coaly streaks and clay or mudstones (511)	Hilltop Weathered (HTW)	—	Moderate	WR+PR	TW	70-80	20-30	Moderate	P	Nil	CB/CT/FP	Very less weathering material. Some quantity of ground water can be expected from deeper aquifer. Farm pond with semi-leaky lining is suggested in this unit.
SHL-512		Structural Hills Less Dissected (SHL)	DW-1, BW-1 (2,17) (4,NA,116)	Poor	WR+PR	TW	70-80	20-30	Moderate	P	Nil	CB/CT,GP	Mainly runoff zone. CB/CT & gully plugging will improve aquifer condition
SHM-512		Structural Hills Mod Dissected (SHM)	DW-1 (8,1,31)	Limited	WR+PR	TW	70-80	20-30	Moderate	P	Nil	CB/CT,GP	Mainly runoff zone. CB/CT & gully plugging will improve aquifer condition
SHH-512	Structural Hills Highly Dissected (SHH)	—	Poor	WR+PR	TW	105-115	20-30	Moderate	P	Nil	CB/CT,GP	Mainly runoff zone. CB/CT & gully plugging will improve aquifer condition	
V-511	MIOCENE	Valley (V)	—	Good	PR	RW TW	15-20	40-50	Moderate	P	Nil	—	Good recharge from surrounding hills
HTW-511		Hilltop Weathered (HTW)	—	Moderate	WR+PR	TW	70-80	40-50	Moderate	P	Nil	CB/CT/FP	Very less weathering material. Some quantity of ground water can be expected from deeper aquifer. Farm pond with semi-leaky lining is suggested in this unit.
SHL-511		Structural Hills Less Dissected (SHL)	DW-1 (14,1,28)	Limited	WR+PR	TW	70-80	40-50	Moderate	P	Nil	CB/CT	Mainly runoff zone. CB/CT will improve aquifer condition
SHM-511	Structural Hills Mod Dissected (SHM)	DW-1 (8,1,14)	Limited	WR+PR	TW	70-80	40-50	Moderate	P	Nil	CB/CT,GP	Mainly runoff zone. CB/CT & gully plugging will improve aquifer condition	
SHH-511	Structural Hills Highly Dissected (SHH)	—	Poor	WR+PR	TW	105-115	40-50	Moderate	P	Nil	CB/CT	Mainly runoff zone. CB/CT will improve aquifer condition	

F --- F / --- These are fault / fracture zones, which generally act as conduits for movement of ground water in hard rocks. Along these zones, the yields are significantly higher and wells are likely to be sustainable for longer duration. However, the inferred fractures need to be confirmed by detailed ground surveys. Fractures more than 1 km are treated as major fractures.

N.B. - \*The depth range and yield range of wells may vary within the unit because of certain in-homogeneities in the aquifer material. \*Fractures / lineaments which are clearly observed / inferred are indicated on the map. There could be some obscured fractures which also influence the ground water prospects. The locations of the recharge on the map are indicated based on the lithology, geomorphology, lineament and weathering conditions. \*Exact location on the ground may vary a little within the litho zones polygons. \*This map may be used for narrowing down the target zones, and selection of the actual sites on the ground for drilling after a follow up ground hydrogeological / geophysical surveys.

DATA USED:  
1. SUPER VIEW 1 Multi Spectral  
2. Cartosat 1 DEM of 10 m Posting  
3. Published Hydrogeomorphological maps (NRWP by NRSC), Geological maps (GSI) & Literature

Ground truth and Well observation was carried out during March 2021 and November 2021  
Designed & Developed by Hydrogeology Division, NRSC

GROUND WATER PROSPECTS INFORMATION	HYDROLOGICAL INFORMATION	STRUCTURAL INFORMATION	BASE MAP INFORMATION	LOCATION INFORMATION																																																																																																																																																																																																										
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<p>PREPARED BY ARUNACHAL PRADESH SPACE APPLICATION CENTRE Dept. of Science &amp; Technology Govt. of Arunachal Pradesh AP Civil Secretariat, Block-1, Room No. 106 ITANAGAR - 791 111</p>	<p>TECHNICAL GUIDANCE &amp; QUALITY CHECK NATIONAL REMOTE SENSING CENTRE Indian Space Research Organization (ISRO) Dept. of Space, Govt. of India Balharaj, HYDERABAD - 500 625</p>	<p>PARTICIPATING ORGANIZATION PUBLIC HEALTH ENGINEERING &amp; WATER SUPPLY DEPARTMENT Govt. of Arunachal Pradesh</p>	<p>PROJECT EXECUTION ARUNACHAL PRADESH SPACE APPLICATION CENTRE Dept. of Science &amp; Technology Govt. of Arunachal Pradesh AP Civil Secretariat, Block-1, Room No. 106 ITANAGAR - 791 111</p>	<p>SPONSORED BY GOVERNMENT OF ARUNACHAL PRADESH</p>																																																																																																																																																																																																										