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GROUNDWATER SOURCE SELECTION SURVEY REPORT

S.L.	Report No. 08.04.2022					
I	NAME & ADDRESS OF THE CUSTOMER		Sri B. Bhaskara Rao S/O Sathyrao, Contact No. 98669 22266			
	Location of the site		Groundwater Source Selection Survey			
	Survey No.		Site Located at N 2 KM from Krishnaraopalem Village / Besides NH-30 & Eastern Adjacent part.			
	Extent		(Sy.No.304/1-Ext.1.52Ac; in 304/2-Ext.0.5Ac; in 305-Ext. 4.06Ac and in 1096/5-Ext.1.71Ac) Total. 7.79 Ac		7.79 Acre / 3.153 Hectares	
	Date of Survey		06.04.2022			
	Purpose		Agricultural Purpose			
	II	Well inventory with reference to the Subject areas		Groundwater Source Selection Survey		
Distance & Direction in M		Existing Bore Well Depth information in M		10, 000 Yield in LPH		
		water zone	Total	Yield	Good / Better / Poor / Dry	
EBW & drilling result @ N100M distance		120'	200'	8,000 Lph	Groundwater is indefinite body, moving towards higher capacity pumps as well as depends on degree of transmitting / permeable zones. The yield of Bores depends on recharge conditions of the subject area. Northern adjacent of the site- observed failure Bore	
200' bgl depth of pump with 5 HP Motor, Yield 1.75" or around 8,000 Lph yield. In drilling groundwater result around 90.0' – 120' Bgl depths.		W.Z 8.0 - 9.0M, F.Z 20.0 - 50.0M, followed by Crystalline rocks / Basement.				
Kondalites chromate rocks intrusions rock formation		FZ range is 20M – 60M followed by Basement.		The subject area comes under 100 M contour level and gradient / slopping towards Western sides in the subject area. Around 150M N & S two stream passing to S direction, therefore testing site bores possible depth range (40M - 60M Bgl Depth) at present information. Drainage pattern of 1st order consisting 100M – 200M radius of the subject area.		
III	Physiographic	Ref: Toposheet 65 D / 9 (B-1&2) Quadrant			w.r.t. subject area	
	Special Remarks	Ref: Google Map			w.r.t. subject area	
IV	Geo co-ordinate WGS-84 Datum	16	54	32.8	80	34.6
		16	55	48.1	80	27.9
V	Hydrogeology					
	Expected Sequence of Formation	Soil cover	Weathered Zone	SWZ	FZ & Joints	Basement
	Thickness in M	0.5 -1.0m	8.0 - 9.0m	7.0m-16.0m	20.0m-60.00m	60.00m
IV	Geophysical Data	Profiles	No of VES	Better Testing points		
		---	SP Nos.3	1, 2 and 3		preference @ 1, 2 and 3
V	Conclusions	Source of Recharge D&D in M		Quantity in Liters	Agriculture	Drinking
		Tanks	Streams			
	Krishnaraopalem Tank (S2KM) from the subject	Krishnaraopalem Tank	Stream (S150 M & N 150M) Near Tributary of 1 st order Drainages Pattern flowing Southern and joins to Krishnaraopalem upstream @ S 2.5 KM			Potable Water
IV	RECOMMENDED / PROPOSED BORES 1st, 2nd, & 3rd, Points Preferable	DRILLING POINT/S		1st, 2nd, & 3rd.		PREFERABLE
		Depth of Bore well		50.00 - 55.00M		Below Ground Level Depth in M
		Casing		6-00 - 9.00 M		Depth in M
		Expected yield		1.25" – 1.75"		5000 – 6000 Liters Per Hour

Note: After Drilling, should be use suitable pump-set according to the 'yield water' and 'depth water' or pumping level as per depth of transmitting Zone / layer. Recommendations validity for a period of six months from the date of report.

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Groundwater Source selection Report - 14 Pgs. (Enclosed)

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08.04.2022

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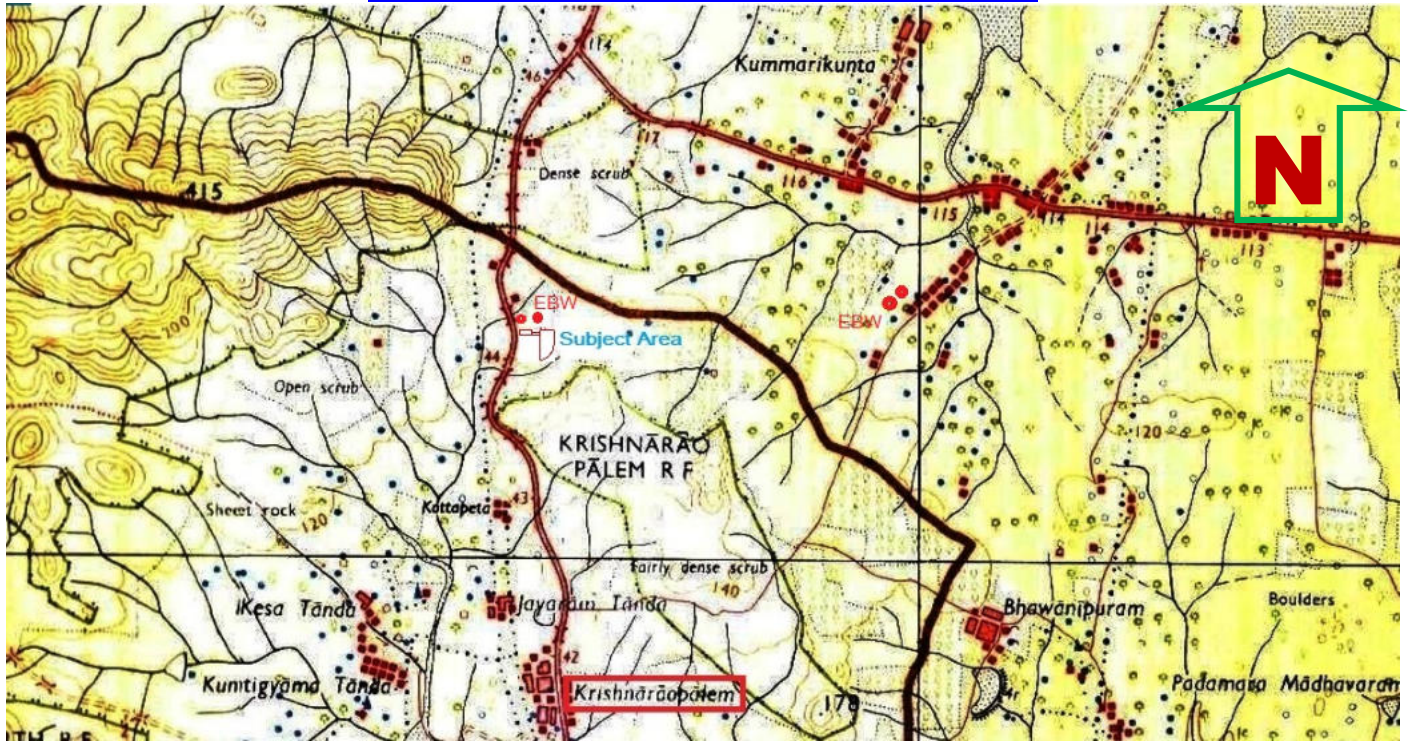


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TOPOSHEET INFORMATION OF THE SUBJECT AREA



Groundwater Recharge Source as Krishnaraopalem Tank: S 2.5 KM from the subject area

Groundwater Recharge Source as Drainage Patterns, Streams & Tributary: S, W & N around 150 M of subject area (from the midpoint)

GEOLOGICAL CONCLUSION:

Subject area - comes under crystalline rocks with Quartz veins influenced at foot hills area. Groundwater source is average to poor yields in general of the testing site. In & around the subject area denotes 4500 Lph – 6500 Lph range of yielded Bore well working properly But, here source of recharge is favour of the 1st order drainages pattern (Northern & Southern influenced to the subject area) flowing towards up to 2.5 KM southern and joins to the tank of Krishnaraopalem. Geologically, testing site comes around 100 MSL contour levels (Bench mark 102 M). the crystalline rock outcrops are observed in NE-SW trend and foot hills area gradient looks in direction of east to west & North to south. The SP exploration results are expected depth range as well as favorable water zones / layers from 80 M to 120 M. bgl depth. But yield of the Bores depends on degree of transmitting zones (Fractures & Joints of the rock formation) and the recharge or filled with zones by resource of subject area.

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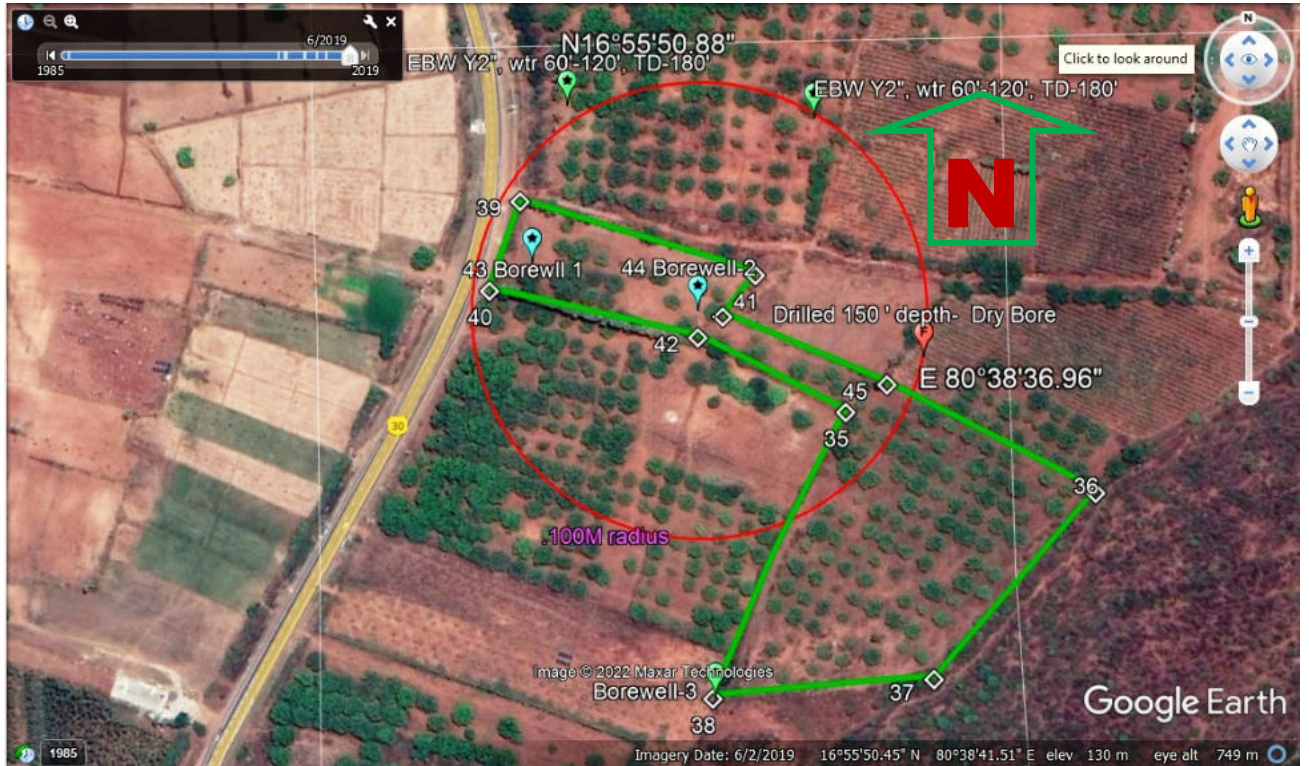


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GROUNDWATER SOURCE SELECTION SURVEY TESTING POINTS & ITS SUBJECT AREA ORIENTATION IN THE GOOGLE MAP



Geo co-ordinates WGS-84 Datum

GPS Location	Distance & Direction-M	N - Latitude			E-Longitude		
		DD	MM	SS.S	DD	MM	SS.S
Testing-1	NW Part of the Site	16	55	47.0	80	38	28.1
Testing-2	NW Part of the Site	16	55	46.1	80	38	31.2
Testing-3	SW Part of the Site	16	55	39.2	80	38	31.4

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Groundwater Source Selection Survey Location

SUBJECT AREA ORIENTATION WITH SURVEY NUMBERS IN THE PART OF VILLAGE MAP



In Sy. No. 304 / 1	Ext. 1.52Ac;
In Sy. No 304 / 2	Ext. 0.5Ac;
In Sy. No 305	Ext. 4.06Ac and
In Sy. No 1096 / 5	Ext. 1.71Ac
	Total. 7.79 Ac

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SUBJECT AREA BOUNDARY ELEVATION PROFILE



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GROUNDWATER ELECTRICAL SURVEYS METHODOLOGY SP METHOD OF GEOPHYSICAL ELECTRICAL TECHNOLOGY



Spontaneous-potential or self potential

means one of the geophysical electrical surveying methods refers to used as electrical anomalies in the ground electrical resistivity exploration responses of the spontaneous potential (SP). The Non- Polarized electrodes were carried out with different altitudes and electrode spacing in the field. The aim of the exploration was to obtain characteristic signatures that may be diagnostic of similar geological targets.

Data were received across the mineral zone and the obtained data were used to generate graphs as " depth in Mts against the Potential in mV ". The results denote SP profiles delineate the electrical resistivity giving in the subject area, information on the magnitude and direction of inclination, and quantitative estimation of the depth of burial. It is primarily used in mineral exploration, groundwater source selection surveys, archaeological prospection and basic knowledge for oil & gas presence. Streaming-potential values are varying due to dissolved minerals or hydrocarbons moving in the ground as an electrolyte. Variation in SP values for each new spacing of electrode.

Result and discussion of application

The field data denotes in survey depth in meters below ground level and observed potential in Milli Volts obtained from the investigation. SP values of ground with varies in the observed potential values and its change each new spacing of electrode which gives an idea regarding the presence of aim / target (Quartz or ground water structural information, archaeological prospection and development of hydrocarbons as oil & gas reconnaissance survey) result indicates as an anomaly of SP method. Most commonly, SP used for shallow investigations, from characterizing sacrificial materials to investigating resistivity down to depths as great as 1 to 2 km, although greater depths of investigation are possible with some techniques and under some conditions.

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SUBJECT AREA DATA

etrax-20 Hand Held GPS System									
WGS -84 DATUM									
GPS	Elev.M	N.Latitude			E.Longitude			Land	
		DD	MM	SS.S	DD	MM	SS.S	Mark	
35	130	16	55	44.2	80	38	33.9	SE	
36	138	16	55	42.7	80	38	38.5	NE	
37	139	16	55	39.5	80	38	35.4	SE	
38	131	16	55	39.2	80	38	31.4	SW	
39	131	16	55	48.1	80	38	27.9	NE	
40	130	16	55	46.8	80	38	27.5	SW	
41	133	16	55	46.7	80	38	32.3	NE	
42	132	16	55	45.6	80	38	31.2	SE	
43	131	16	55	47.0	80	38	28.1	SP1	
44	127	16	55	46.1	80	38	31.2	SP2	
45	133	16	55	44.7	80	38	34.5	BS	
46	134	16	55	39.2	80	38	31.4	SP3	
47	133	16	55	54.5	80	38	53.4	BS	
48	136	16	55	56.0	80	39	50.4	EBW1	
49	134	16	55	56.2	80	39	51.80	EBW 2	
Doctor concern Bore-1 (Older One)								EBW3	Y1.5" - 1.75" Wtr80'-120' TD 200' North 100M
Doctor concern Bore-2 (New One Drilled on 06.04.2022)								EBW4	Y1.5" - 1.75" Wtr80'-120' TD 200' North 100M
50	134	16	55	45.2	80	38	35.4	Dry Bore	

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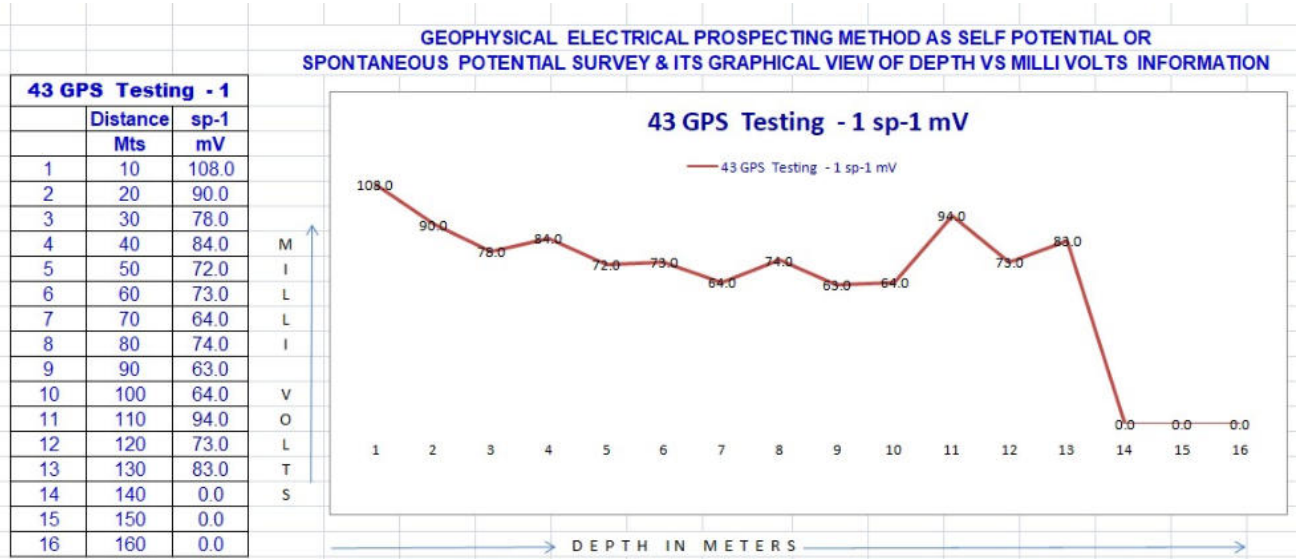


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TESTING - 1 (WEST- EAST)



- 1). Layer / Zone expected water depth in feet : 80' – 90'
- 2). Layer / Zone expected water depth in feet : 100' – 140'

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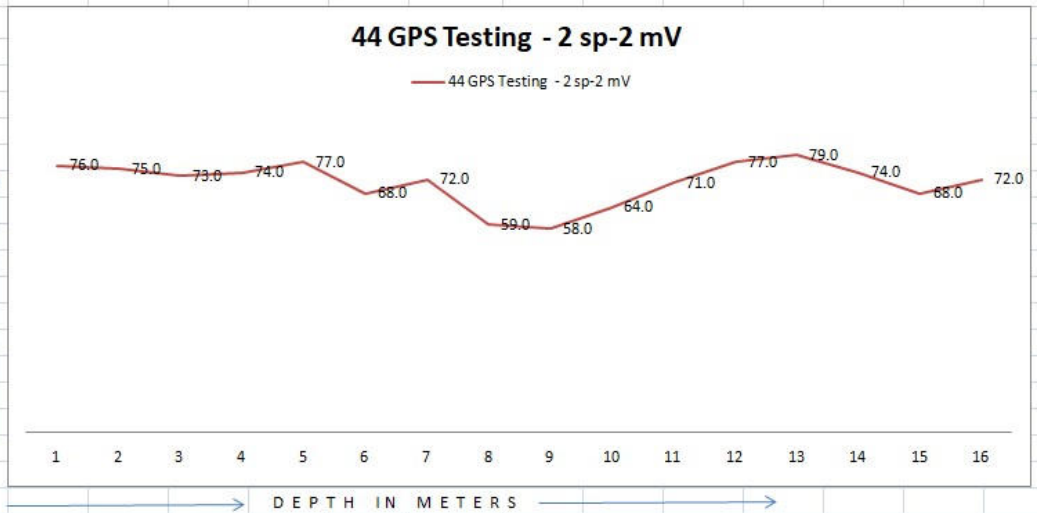
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TESTING - 2 (WEST- EAST)

GEOPHYSICAL ELECTRICAL PROSPECTING METHOD AS SELF POTENTIAL OR SPONTANEOUS POTENTIAL SURVEY & ITS GRAPHICAL VIEW OF DEPTH VS MILLI VOLTS INFORMATION

44 GPS Testing - 2		
	Distance	sp-2
	Mts	mV
1	10	76.0
2	20	75.0
3	30	73.0
4	40	74.0
5	50	77.0
6	60	68.0
7	70	72.0
8	80	59.0
9	90	58.0
10	100	64.0
11	110	71.0
12	120	77.0
13	130	79.0
14	140	74.0
15	150	68.0
16	160	72.0

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- 1). Layer / Zone expected water depth in feet : 60' – 80'
- 2). Layer / Zone expected water depth in feet : 90' – 140'

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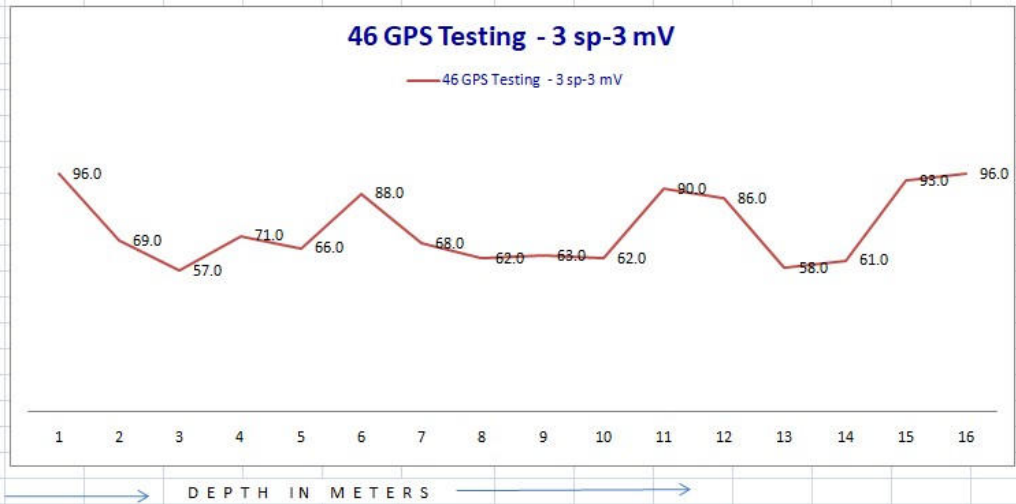
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TESTING - 3 (SOUTH-NORTH)

GEOPHYSICAL ELECTRICAL PROSPECTING METHOD AS SELF POTENTIAL OR SPONTANEOUS POTENTIAL SURVEY & ITS GRAPHICAL VIEW OF DEPTH VS MILLI VOLTS INFORMATION

46 GPS Testing - 3		
	Distance	sp-3
	Mts	mV
1	10	96.0
2	20	69.0
3	30	57.0
4	40	71.0
5	50	66.0
6	60	88.0
7	70	68.0
8	80	62.0
9	90	63.0
10	100	62.0
11	110	90.0
12	120	86.0
13	130	58.0
14	140	61.0
15	150	93.0
16	160	96.0



- 1). Layer / Zone expected water depth in feet : 50' – 70'
- 2). Layer / Zone expected water depth in feet : 100' – 130'
- 3). Layer / Zone expected water depth in feet : 140' – 170'

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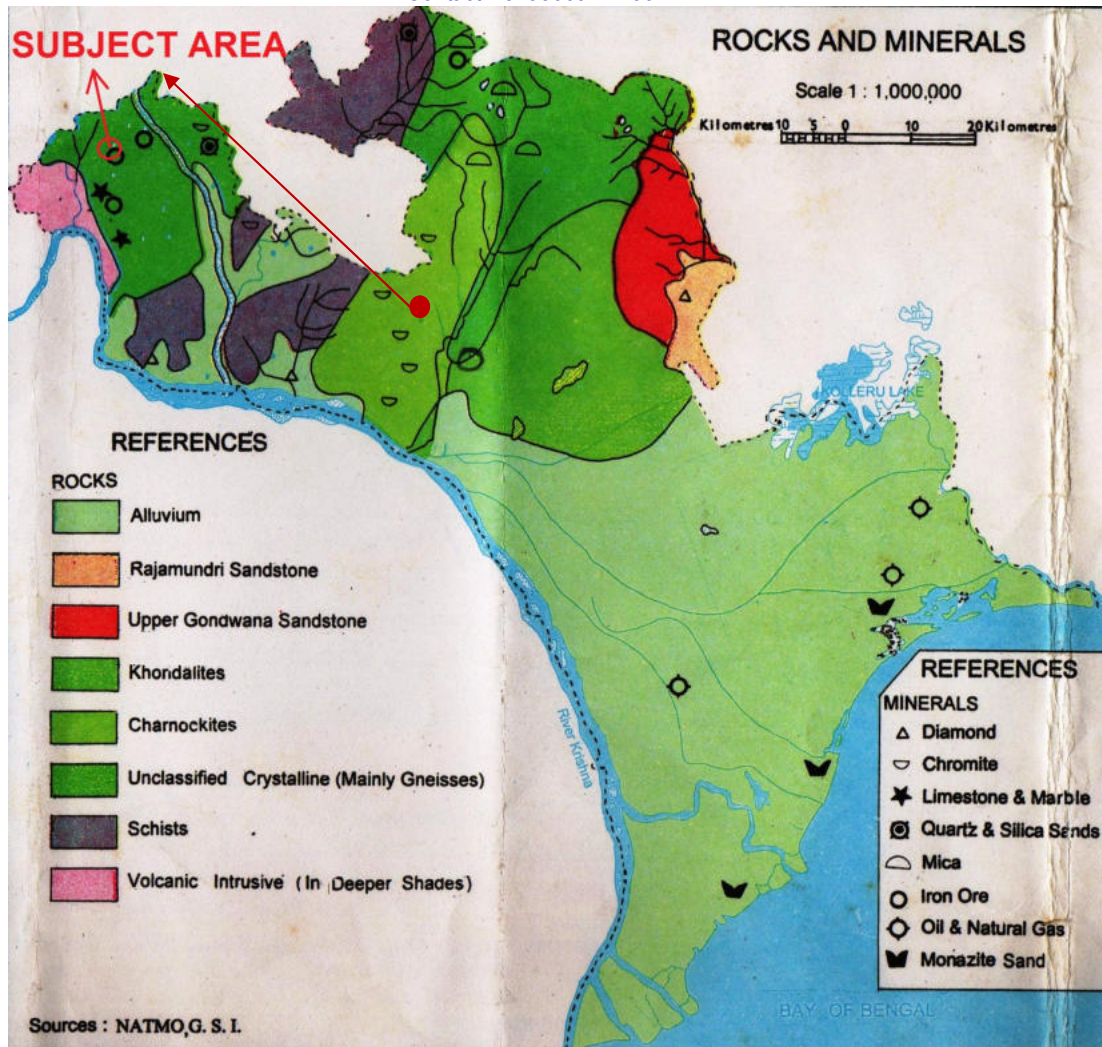
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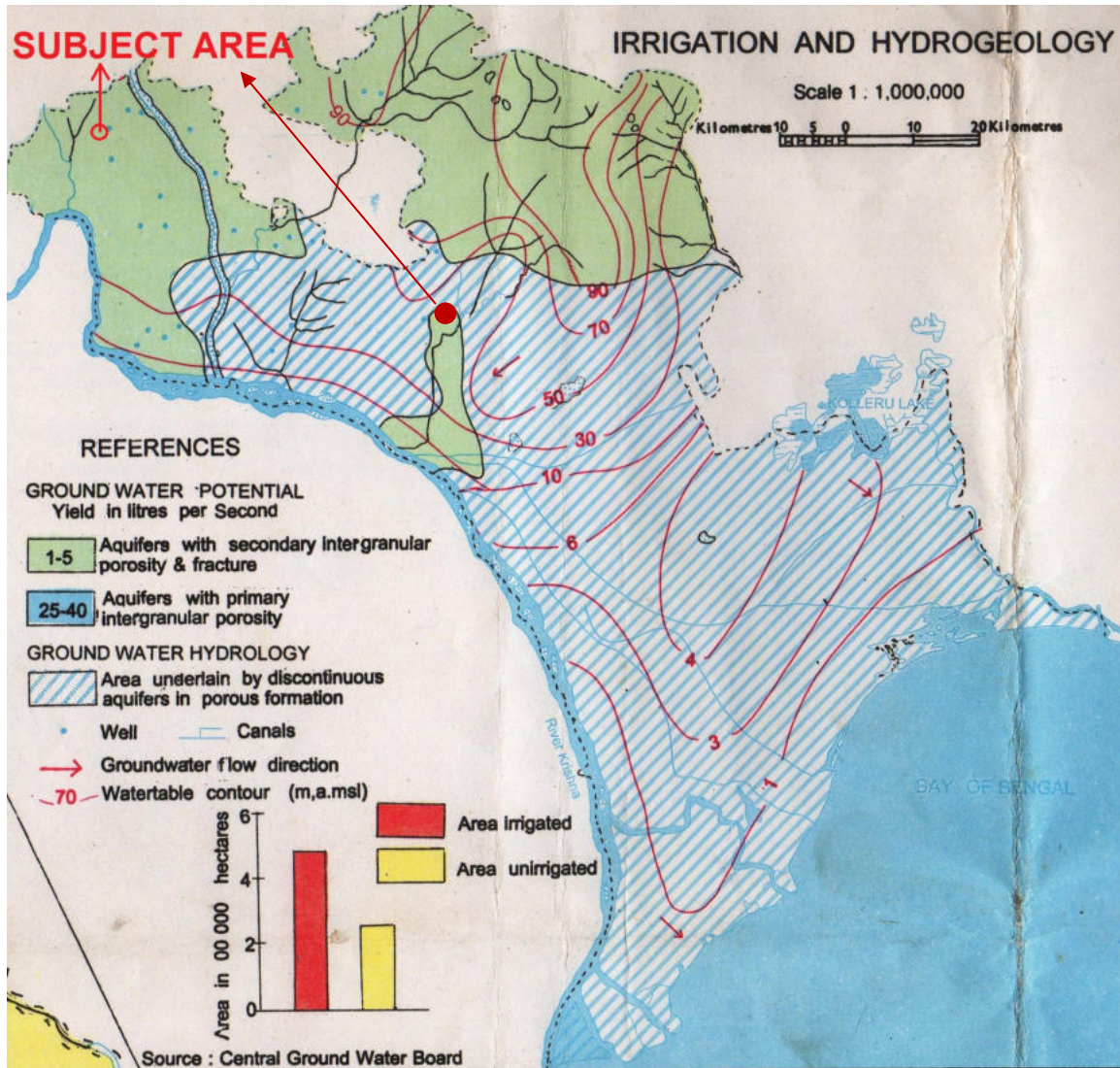
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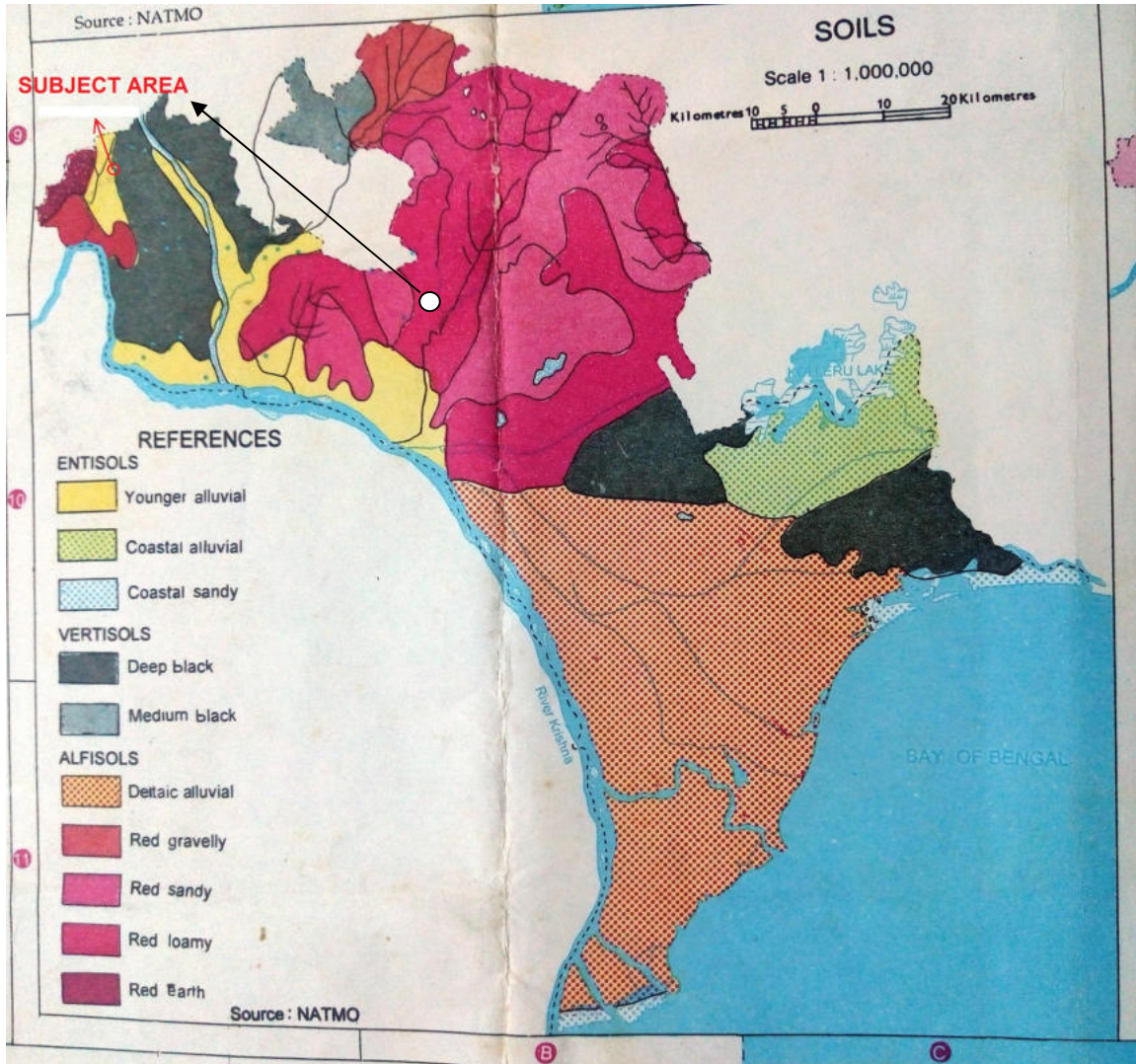
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నూతన సంవత్సర మరియు సంక్రాంతి పండుగ శుభాకాంక్షలు

డీప్ బోర్స్ సర్వే

- 30 సంవత్సరాల విజయవంతమైన పరిశోధన మరియు విశ్లేషణ - అనుభవముతో
- 300' నుండి 1000' అడుగుల లోతైన బోరుబావుల డ్రిల్లింగ్ కొరకు
- బోరుబావులు ఎక్కువ భాగము విజయవంతమయ్యే విధముగా (నష్ట భాగమును తగ్గే విధముగా) అవకాశముగల జల మార్గాలు మరియు అవకాశముగల జల కలిగిన బోరుబావుల విశ్లేషణ కొరకు మన్నికగల బోరుబావులు కొరకు - సమగ్రహ భూ విజ్ఞాన పరిశోధన

శాటిలైట్ ద్వారా భూ ఉపరితల పరిజ్ఞానము - ఉపయోగము :

బోరుబావి సర్వే ఫలమునకు :
జల వనరుల ఏ దిక్కున, ఎంత దూరమున, ఎంత ప్రభావముతో ఉన్నాయో చూపుతుంది

బోర్లు మంచివి, చెడువి అనేవి :
ఏ దిక్కున, ఎంత దూరమున, ఏ ఫలితాన్నిస్తున్నాయో తెలుస్తుంది.

సమగ్రహ హైడ్రోజియాలజికల్, జియాలజికల్, జియోఫిసికల్ ఎలక్ట్రికల్ రెసిస్టివిటీ భూ విజ్ఞాన పరిశోధన :

హైడ్రోజియాలజికల్, జియోబొటానికల్, జియాలజికల్ మరియు పరిసరాల బోరుబావులున్నా పరిస్థితుల అవగాహనతో మాత్రమే జియాలజికల్ ఎలక్ట్రికల్ రెసిస్టివిటీ మీటరు ద్వారా ఏ లోతున, ఏ పరిమాణముతో, ఏ మాత్రము అవకాశము కలిగిన జలమార్గాలున్న పరిస్థితిని వాటి యొక్క తీవ్రతను మరియు ప్రభావమును ఏ దిశగా అనేది గుర్తించదగిన పరిశోధన.

నీరు :
నీరు నిలకడ లేనిది - స్వచ్ఛమైనది
నీరు పల్లమెరుగు - అలాగే
అధిక సామర్థ్యత కలిగిన బోరుబావుల దిశగా నీరు బలముగా లాగబడుతుంది. కనుక దగ్గర దగ్గరగా బోరుబావులు నిర్మించకూడదు. వినలేదా కష్టనష్టాలు తప్పవు. కనుక ఒక బోరుకు మరియుక బోరుకు వీలైనంత దూరమును కలిగి ఉండాలి.









శాటిలైట్ మ్యాప్ విశ్లేషణ జియోఫిజికల్ 'VES' టెక్నాలజీ సాఫ్ట్వేర్ నిర్మాణాత్మక సూచిక

డీప్ బోర్స్ సర్వే : ఆన్ లైన్ ద్వారా పరిశోధనా - విశ్లేషణ : గ్యారంటీగా మెరుగైన ఫలితాలు "ఉన్నవి - ఉన్నట్లుగానే"

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